

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

EFFECTIVE DATE: December 1, 2020

ISSUED TO

Michigan Automotive Compressor, Inc.

State Registration Number (SRN): N1966

LOCATED AT

2400 North Dearing Road, Parma, Michigan 49269

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-N1966-2020

Expiration Date: December 1, 2025

Administratively Complete ROP Renewal Application
Due Between June 1, 2024 and June 1, 2025

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-N1966-2020

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



Scott Miller, Jackson 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))**
 - a. 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.
 - b. 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))**
 - a. The applicable requirements are included and are specifically identified in the ROP.
 - b. 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:
 - a. 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))**
 - b. 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))**
 - c. 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
EUHUBLINE1 (0110, 0060)	Hub Line 1 Spray painting machine (0110), overcoat and undercoat adhesive application dip tanks, conveyor lines, flash-off area (0060), and Regenerative Thermal Oxidizer (RTO).	02-20-1990	FGMACTMMMM
EUHUBLINE4	Hub spray adhesive and rubber vulcanization process line No. 4. The hub will be coated with primer, then adhesive, and then a rubber spray coating using spray robots. The Volatile Organic Compound (VOC) emissions from this line will be controlled by Permanent Total Enclosure (PTE) and a common RTO.	12-20-2011	FGNEWHUBLINES FGMACTMMMM
EUHUBLINE5	Hub spray adhesive and rubber vulcanization process line No. 5. The hub will be coated with primer, then adhesive, and then a rubber spray coating using spray robots. The VOC emissions from this line will be controlled by PTE and a common RTO.	09-21-2012	FGNEWHUBLINES FGMACTMMMM
EUHUBLINE6	Hub spray adhesive and rubber vulcanization process line No. 6 consisting of robotic application of a primer, adhesive, flexible rubber spray, and protective resin coating onto a magnetic clutch hub. The coating application areas are controlled by a PTE and a RTO.	12-17-2014	FGMACTMMMM
EUROTORLINE1 (0160, 0060)	Rotor Line 1 - Electro-deposition Coating Machine and repair spray coating (0060).	02-20-1990	FGMACTMMMM
EUSTATORLINE (0025, 3025)	Stator Line Electro-deposition Coating Machine, each of these lines consists of fourteen process dip tanks, a bake oven and cooling tunnel.	03-15-1996, 01-01-2002	FGMACTMMMM
EUFAC-AHUS	50 Natural gas fired Roof Top AHUS	1988	FGBOILERMACT
EUFAC-BOILER1	Powerhouse Boiler 1 – Fire Tube/Cleaver Brooks 8 MMBTU Natural gas fired boiler.	1988	FGBOILERMACT
EUFAC-BOILER2	Powerhouse Boiler 2 – Fire Tube/Cleaver Brooks 8 MMBTU Natural gas fired boiler.	1988	FGBOILERMACT
EUFAC-BOILER3	Powerhouse Boiler 3 – Fire Tube/Cleaver Brooks 8 MMBTU Natural gas fired boiler.	1988	FGBOILERMACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUFAC-BOILER5	Aerco model MLXEXT 3060 hot water boiler, 2.77 MMBTU Natural gas fired boiler.	11-30-2017	FGBOILERMACT
EUFAC-BOILER6	Aerco model MLXEXT 3060 hot water boiler, 2.77 MMBTU Natural gas fired boiler.	11-30-2017	FGBOILERMACT
EUFAC-HEATERS	Natural Gas Door Heaters	1988	FGBOILERMACT
EUFURNACE1	Gas fired aluminum reverberatory melt furnace with melt rate of 2,200 pounds per hour with holding capacity of approximately 8,300 pounds of molten aluminum and a new injection fluxing system. Particulate emissions will be controlled by two baghouses (emitted through one stack) with a total combined rating of 90,000 standard cubic feet per minute (scfm). (Formerly identified as EU-DC-0012)	09-01-2002 / 09-2009 / 12-05-2011	FGFURNACES
EUFURNACE3A	Gas fired aluminum reverberatory melt furnace with melt rate of 2,200 pounds per hour with holding capacity of approximately 15,000 pounds of molten aluminum and a new injection fluxing system. Particulate emissions will be controlled by two baghouses (emitted through one stack) with a total combined rating of 90,000 scfm. (Formerly identified as EU-DC-0013)	01-01-2005 / 09-2009 / 12-05-2011	FGFURNACES
EUFURNACE4	Gas fired aluminum reverberatory melt furnace with injection fluxing system. The melt rate will be approximately 6,600 pounds per hour with holding capacity of approximately 27,720 pounds of molten aluminum. Particulate emissions will be controlled by two baghouses (emitted through one stack) with a total combined rating of 90,000 scfm. (Replaced existing furnace identified as EU-DC-0011)	12-05-2011 / 06-15-2012	FGFURNACES
EUFURNACE5	Gas fired aluminum reverberatory melt furnace with injection fluxing system. The melt rate will be approximately 3,300 pounds per hour with holding capacity of approximately 28,000 pounds of molten aluminum and a new injection fluxing system. Particulate emissions will be controlled by two baghouses (emitted through one stack) with a total combined rating of 90,000 scfm.	09-21-2012	FGFURNACES
EUSK-JIGSHOP	Jig Shop Safety Kleen Machine Green Cyclonic.	11-16-1996	FGCOLDCLEANERS
EUSK-MAIN1	Maintenance Safety Kleen Machine Red Tank.	01-01-1996	FGCOLDCLEANERS
EUSK-PRESS	Press Area Safety Kleen Machine.	01-11-1996	FGCOLDCLEANERS
EUSK-PRESS-2	Press Area Safety Kleen Machine #2.	01-07-1997	FGCOLDCLEANERS
EUSK-STATOR	Stator 3, 4 Safety Kleen Machine.	01-01-2003	FGCOLDCLEANERS
EUSK-DIEMAIN	Die Maintenance Safety Kleen Machine Red Tank.	06-29-1994	FGCOLDCLEANERS
EUHB1CC	Hub MACI owned cold cleaner.	1990	FGCOLDCLEANERS

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUHB4CC	Hub MACI owned cold cleaner.	2012	FGCOLDCLEANERS
EUHB5CC	Hub MACI owned cold cleaner.	2013	FGCOLDCLEANERS
EUHB6CC	Hub MACI owned cold cleaner.	2014	FGCOLDCLEANERS
EUEMERGEN1	Cummins Model 855-64, 308 HP, diesel fuel-fired emergency reciprocating internal combustion engine.	01-01-1989	FGRICEMACT
EUEMERGEN2	Cummins Model 230DFAB, 308 HP, diesel fuel-fired emergency reciprocating internal combustion engine.	01-01-1995	FGRICEMACT
EUEMERGEN3	Cummins Model DFHD-4957122, 1000 HP, diesel fuel-fired emergency reciprocating internal combustion engine.	01-01-1997	FGRICEMACT
EUEMERGEN4	Cummins Model QST30, 1112 HP, diesel fuel-fired emergency reciprocating internal combustion engine.	12-01-2012	FGRICEMACT FGEMERG-III

**EUHUBLINE1
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Hub Line 1 Spray painting machine (0110), overcoat and undercoat adhesive application dip tanks, conveyor lines, flash-off area (0060), and Regenerative Thermal Oxidizer (RTO).

Flexible Group ID: FGMACTMMMM

POLLUTION CONTROL EQUIPMENT

Spray Painting machine - Water wash and filter panel.
 Adhesive application, dip tanks, conveyor lines and flash-off area – RTO

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	56.88 lbs ²	Per calendar day	EUHUBLINE1 (0110)	SC VI.2, VI.5	R 336.1201(3)
2. VOC	7.14 tpy ²	12-month rolling time period as determined at the end of each calendar month	EUHUBLINE1 (0110)	SC VI.2, VI.5	R 336.1201(3)
3. VOC	7.1 tpy ²	12-month rolling time period as determined at the end of each calendar month	EUHUBLINE1 Adhesive application dip tanks, conveyor lines and flash-off area (0060)	SC VI.2, VI.3	R 336.1205 R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not substitute any coating for that described in this permit application which would result in an appreciable change in the quality or any appreciable increase in the quantity of the emissions of an air contaminant without prior notification to and approval by the Air Quality Division.² **(R 336.1201(3))**
2. The permittee shall not operate the paint spray booth unless the water wash section is installed and operating properly.² **(R 336.1910)**
3. All waste solvents and coatings shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with all applicable rules and regulations.² **(R 336.1225, R 336.1702(a), R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUHUBLINE1 (0060) unless the RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the RTO includes a minimum combined VOC capture and destruction efficiency of 73 percent (by weight) and maintaining a minimum temperature of 1450°F and a minimum retention time of 0.5 seconds.² **(R 336.1225, R 336.1702(a), R 336.1901, 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. The VOC content, water content, and density of any coating, thinner, and cleanup solvent as applied and as received shall be determined using federal Reference Test Method 24. Upon prior approval by the AQD District Supervisor, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and formulation values should differ, then the Method 24 results shall be used to determine compliance.² **(R 336.1225, R 336.1702(a), R 336.1901)**

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 temperature in the RTO near the combustion chamber outlet on a continuous basis in a manner and with instrumentation acceptable to the Air Quality Division.² **(R 336.1225, R 336.1702(a), R 336.1901)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, thinner and cleanup solvent, including the weight percent of each component. The data should come from manufacturer's formulation data.² **(R 336.1225, R 336.1702(a), R 336.1901)**
3. The permittee shall keep the following information on a monthly basis for the EUHUBLINE1 (0060):
 - a. Gallons (with water) or each coating, thinner and cleanup solvent used.
 - b. VOC content (with water) of each coating, thinner and cleanup solvent as applied.
 - c. VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d. VOC mass emission calculations determining the annual emission in tons per 12-month rolling time period as determined at the end of each calendar month.These records shall be kept in a format acceptable to the AQD District Supervisor.² **(R 336.1225, R 336.1702(a), R 336.1901)**
4. The permittee shall keep, in a satisfactory manner, continuous records of the temperature in the RTO.² **(R 336.1225, R 336.1702(a), R 336.1901)**
5. The permittee shall calculate the VOC emissions in pounds per calendar day and VOC mass emission calculations determining the annual emission in tons per 12-month rolling time period as determined at the end of each calendar month for EUHUBLINE1 (0110).² **(R 336.1225, R 336.1702(a), R 336.1901)**
6. The permittee shall prepare and submit an Air Pressure Differential Monitoring Plan to the AQD Technical Programs Unit prior to any monitoring. The monitoring plan shall include a quality assurance plan stating the method proposed to calibrate/audit the monitor in order to verify that the monitoring equipment has been installed and is operating properly. **(R 336.1213(3), R 336.1225, R 336.1702(a))**

See Appendix 9

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. SV00002	30 ²	45 ²	R 336.1201(3)
2. SV2 (Oven)	35 ²	47 ²	R 336.1201(3)
3. SVOOO18 RTO Exhaust	14 ²	55 ²	R 336.1225 R 336.1901 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 M for the surface coating of miscellaneous metal parts and products as they apply to EUHUBLINE1. **(40 CFR Part 63, Subparts A and M)**

See Appendix 9

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).

**EUHUBLINE6
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Hub spray adhesive and rubber vulcanization process line No. 6 consisting of robotic application of a primer, adhesive, flexible rubber spray, and protective resin coating onto a magnetic clutch hub. The coating application areas are controlled by a permanent total enclosure (PTE) and a regenerative thermal oxidizer (RTO).

Flexible Group ID: FGMACTMMMM

POLLUTION CONTROL EQUIPMENT

Dry Fabric Filters, PTE, and an RTO

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	1.1 tpy ²	12-month rolling time period as determined at the end of each calendar month	EUHUBLINE6	SC VI.2, VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations.² **(R 336.1224, R 336.1702(a))**
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.² **(R 336.1224, R 336.1370)**
3. The permittee shall handle all VOC and/or HAP containing materials, including coatings, solvents and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary.² **(R 336.1224, R 336.1702(a))**
4. The permittee shall maintain a minimum of 0.007 inches of water pressure differential between the PTE and the adjacent area on a continuous basis.² **(R 336.1225, R 336.1702(a))**
5. The permittee shall not operate EUHUBLINE6 unless a malfunction abatement plan (MAP) as described in Rule 911(2) is implemented and maintained. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.² **(R 336.1225, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d))**

See Appendix 9

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUHUBLINE6 unless all respective exhaust filters are installed and operating in a satisfactory manner.² **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain EUHUBLINE6 with robotic HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing.² **(R 336.1702(a))**
3. The permittee shall not operate EUHUBLINE6 unless the RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the RTO includes maintaining a minimum combustion chamber temperature of 1,550°F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1,550°F based upon a three-hour rolling average.² **(R 336.1702(a), R 336.1910)**
4. The permittee shall not operate EUHUBLINE6 unless the PTE is installed, maintained, and operated in a satisfactory manner. Satisfactory operation requires that the PTE is operating at a pressure lower than all adjacent areas, so that air flows into the PTE through all natural draft openings (NDOs). NDO is defined as any opening that is not connected to a duct in which a fan or blower is installed.² **(R 336.1225, R 336.1702(a), 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. The permittee shall determine the VOC content, water content, and density of any coating as applied and as received, using federal Reference Test Method 24. Upon prior approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.² **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. The permittee shall verify the destruction efficiency of the RTO, by testing at owner's expense, in accordance with Department requirements, and once every five years thereafter. No less than 60 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. Verification of emission limits includes the submittal of 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.² **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, 40 CFR 63.3964(a))**
3. The permittee shall verify the destruction efficiency of the RTO, 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)**
4. 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 complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th 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)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, 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 on file and make them available to the Department upon request.² **(R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a monthly basis for the EUHUBLINE6:
 - a. Gallons (with water) of each material used.
 - b. VOC content (with water) of each material as applied.
 - c. VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d. VOC mass emission calculations determining the annual emission rate 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 336.1702(a))**
4. The permittee shall monitor and record, in a satisfactory manner, the temperature in the combustion chamber of the RTO on a continuous basis, during operation of EUHUBLINE6. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. If the measured operating temperature of the RTO falls below 1,550°F during operation of EUHUBLINE6, the permittee may demonstrate compliance based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1,550°F. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1702)**
5. The permittee shall monitor and record, in a satisfactory manner, the pressure differential between the PTE for EUHUBLINE6 and the outside area, on a continuous basis, to verify that air is entering the PTE. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1702)**
6. The permittee shall prepare and submit an Air Pressure Differential Monitoring Plan to the AQD Technical Programs Unit prior to any monitoring. The monitoring plan shall include a quality assurance plan stating the method proposed to calibrate/audit the monitor in order to verify that the monitoring equipment has been installed and is operating properly.² **(R 336.1213(3), R 336.1225, R 336.1702(a))**

See Appendix 9

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-HUB6RTO	34 ²	55 ²	R 336.1225 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 M MMM as they apply to EUHUBLINE6.² **(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).

**EUROTORLINE1
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Rotor Line 1 - Electro deposition Coating Machine and repair spray coating (0060)

Flexible Group ID: FGMACTMMMM

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	14.16 lbs ²	Per calendar day	EUROTORLINE1 (0060)	SC VI.1, VI.3	R 336.1201(3)
2. VOC	1.78 tpy ²	12-month rolling time period as determined at the end of each calendar month	EUROTORLINE1 (0060)	SC VI.1, VI.3	R 336.1201(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not substitute any coating for that described in this permit application which would result in an appreciable change in the quality or any appreciable increase in the quantity of the emission of an air contaminant without prior notification to and approval by the Air Quality Division.² **(R 336.1201(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))**

NA

VI. MONITORING/RECORDKEEPING

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

1. Monthly coating and reducer usage rates shall be maintained. Record keeping shall include operating hours.² **(R 336.1201(3))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, thinner and cleanup solvent, including the weight percent of each component. The data should come from manufacturer's formulation data. **(R 336.1213(3))**

3. The permittee shall keep the following information for the EUROTOLINE¹:
 - a. Daily for each coating, thinner, and cleanup solvent used:
 - i. The coating, catalyst, thinner and cleanup solvent identification
 - ii. The amount used in gallons (with water and exempt solvents);
 - iii. The VOC content in pounds per gallon (with water and exempt solvents); and
 - iv. The amount disposed of as waste coating, catalyst, thinner and cleanup solvent.
 - b. Calculate the VOC emissions in pounds per calendar day.
 - c. VOC emission calculations determining the calendar month emission rate in tons per month, and a 12-month rolling time period emission rate in tons per year.

These records shall be kept in a format acceptable to the AQD District Supervisor. **(R 336.1213(3))**

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. SV00008	35 ²	47 ²	R 336.1201(3)

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 MMMM for the surface coating of miscellaneous metal parts and products as they apply to EUROTOLINE¹. **(40 CFR Part 63, Subparts A and MMMM)**

See Appendix 9

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).

**EUSTATORLINE
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Stator Line Electro-deposition Coating Machine, each of these lines consists of fourteen process dip tanks, a back oven and cooling tunnel.

Flexible Group ID: FGMACTMMMM

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	70 lbs ²	Per week	EUSTATORLINE (0025)	SC VI.1, VI.2	R 336.1201(3)
2. VOC	1.6 tpy ²	12-month rolling time period as determined at the end of each calendar month	EUSTATORLINE (0025)	SC VI.1	R 336.1201(3)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	3.0 pounds per gallon of coating (minus water) as applied ²	Instantaneous	EUSTATORLINE (0025)	SC V.1	R 336.1201(3)

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))

- The VOC content, water content, and density of any coating, thinner, and cleanup solvent as applied and as received shall be determined using federal Reference Test Method 24. Upon prior approval by the AQD District Supervisor, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and formulation values should differ, then the Method 24 results shall be used to determine compliance. (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. Applicant shall keep records of the following for the coating operation on a weekly basis:² **(R 336.1201(3))**
 - a. Number of gallons of each component used in the coating operation, as applied, including water
 - b. VOC content of each component used, in pounds VOC per gallon, as applied, including water
 - c. Calculations showing the VOC emission rate in pounds per calendar week and tons per year based on a 12-month rolling average.
2. Applicant shall maintain records of the chemical composition of each component used in the coating operation, including weight percent of each component.² **(R 336.1201(3))**

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. SV00046	NA	46 ²	R 336.1201(3)
2. SV00262	NA	46 ²	R 336.1201(3)

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 for the surface coating of miscellaneous metal parts and products as they apply to EUSTATORLINE. **(40 CFR Part 63, Subparts A and M)**

See Appendix 9

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).

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
FGNEWHUBLINES	Hub spray adhesive and rubber vulcanization process lines Nos. 4 and 5. The hub will be coated with primer, then adhesive, and then a rubber spray coating using spray robots. The VOC emissions from both lines will be controlled by Permanent Total Enclosure (PTE) and a common Regenerative Thermal Oxidizer (RTO).	EUHUBLINE4 EUHUBLINE5
FGFURNACES	Four gas fired aluminum reverberatory melt furnaces. Particulate emissions from all four furnaces will be controlled by two baghouses with a total combined rating of 90,000 scfm. The two baghouses emit from one single stack.	EUFURNACE1 EUFURNACE3A EUFURNACE4 EUFURNACE5
FGMACTMMMM	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).	EUHUBLINE1 EUHUBLINE4 EUHUBLINE5 EUHUBLINE6 EUROTORLINE1 EUSTATORLINE
FGBOILERMACT	Requirements for new and existing boilers and process heaters that are designed to burn gas 1 subcategory fuel with a heat input capacity of <10 MMBTU/hr for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). These boilers or process heaters are designed to burn solid, liquid, or gaseous fuels.	EUFAC-AHUS EUFAC-BOILER1 EUFAC-BOILER2 EUFAC-BOILER3 EUFAC-BOILER5 EUFAC-BOILER6 EUFAC-HEATERS

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGCOLDCLEANERS	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.	EUSK-JIGSHOP EUSK-MAIN1 EUSK-PRESS EUSK-PRESS-2 EUSK-STATOR EUSK-DIEMAIN EUHB1CC EUHB4CC EUHB5CC EUHB6CC
FGRICEMACT	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) applicable to existing Combustion Ignition RICE less than 500 HP, existing RICE greater than 500 HP, and new RICE greater than 500 HP.	EUEMERGEN1 EUEMERGEN2 EUEMERGEN3 EUEMERGEN4
FGEMERG-III	Consists of emergency, stationary, compression ignition (CI) internal combustion engines (ICE), which commenced construction after July 11, 2005, where the stationary, CI ICE are manufactured after April 1, 2006, and are not fire pump engines, which are subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines under 40 CFR Part 60, Subpart III. For the purpose of Subpart III, the date that construction commences is the date the engine is ordered by the owner or operator.	EUEMERGEN4

**FGNEWHUBLINES
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Hub spray adhesive and rubber vulcanization process lines Nos. 4 and 5. The hub will be coated with primer, then adhesive, and then a rubber spray coating using spray robots. The VOC emissions from both lines will be controlled by Permanent Total Enclosure (PTE) and a common Regenerative Thermal Oxidizer (RTO).

Emission Units: EUHUBLINE4, EUHUBLINE5

POLLUTION CONTROL EQUIPMENT

The VOC emissions from both lines will be controlled by PTE and a common RTO. Overspray will be controlled by exhaust filters.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	2.5 tpy ²	12-month rolling time period as determined at the end of each calendar month	FGNEWHUBLINE	SC VI.1, VI.4	R 336.1702(a)
2. VOC	0.6 pph ²	Hourly	FGNEWHUBLINE	SC V.2	R 336.1225 R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of all coatings, adhesives, reducer, solvents, thinners, etc. (materials), in accordance with all applicable regulations.² **(R 336.1702(a))**
2. The permittee shall capture all waste materials and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations.² **(R 336.1702(a))**
3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.² **(R 336.1224, R 336.1370)**
4. The permittee shall handle all VOC and/or HAP containing materials, including coatings, reducers, solvents, and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary.² **(R 336.1225, R 336.1702(a))**
5. The permittee shall maintain a minimum of 0.007 inches of water pressure differential between the PTE and the adjacent area on a continuous basis.² **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNEWHUBLINES unless all respective exhaust filters are installed and operating in a satisfactory manner.² **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain FGNEWHUBLINES with High Volume Low Pressure (HVLP) or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing.² **(R 336.1702(a))**
3. The permittee shall not operate FGNEWHUBLINES unless the RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes a minimum VOC destruction efficiency of 95 percent (by weight), maintaining a minimum combustion chamber temperature of 1550°F, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1550°F based upon a three-hour rolling average.² **(R 336.1225, R 336.1702(a), R 336.1910)**
4. 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 FGNEWHUBLINES.² **(R 336.1225, R 336.1702(a))**
5. The permittee shall not operate FGNEWHUBLINES unless the PTE is installed, maintained, and operated in a satisfactory manner. Satisfactory operation requires that the PTE is operating at a pressure lower than all adjacent areas, so that air flows into the PTE through all natural draft openings (NDOs). NDO is defined as any opening that is not connected to a duct in which a fan or blower is installed.² **(R 336.1225, R 336.1702(a))**

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 determine the VOC content, water content, and density of any material as applied and as received, using federal Reference Test Method 24. Upon prior approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.² **(R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. The permittee shall verify the VOC emission rate specified in SC I.2, the capture efficiency of the PTE, and the destruction efficiency of the RTO, by testing at owner's expense, in accordance with Department requirements, and once every five years thereafter. No less than 60 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. Verification of emission limits includes the submittal of 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.² **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, 40 CFR 63.3964(a))**
3. The permittee shall verify VOC emission rates from FGNEWHUBLINE by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 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. 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. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
4. The permittee shall verify the VOC emission rates from FGNEWHUBLINES, the capture efficiency of the PTE, and the destruction efficiency of the RTO 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 complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901)**
2. The permittee shall monitor, in a satisfactory manner, the temperature in the combustion chamber of the RTO on a continuous basis, during operation of FGNEWHUBLINES. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.² **(R 336.1225, R 336.1702(a))**
3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, 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 on file and make them available to the Department upon request.² **(R 336.1225, R 336.1702(a))**
4. The permittee shall keep the following information on a calendar month basis for the FGNEWHUBLINES:
 - a. Gallons (with water) of each material used.
 - b. VOC content (minus water and with water) of each material as applied.
 - c. VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d. VOC mass emission calculations determining the annual emission rate 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(a))**

5. The permittee shall keep, in a satisfactory manner, operating temperature records for the RTO as required by SC IV.3. If the measured operating temperature of the RTO falls below 1550°F during operation of FGNEWHUBLINES, the permittee may demonstrate compliance based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1550°F. The permittee shall keep all records and calculations on file and make them available to the Department upon request.² **(R 336.1225, R 336.1702(a))**
6. The permittee shall monitor and record, in a satisfactory manner, the pressure differential between the PTE for FGNEWHUBLINES and the outside area, on a continuous basis, to verify that air is entering the PTE. The permittee shall prepare and submit an Air Pressure Differential Monitoring Plan to the AQD Technical Programs Unit prior to any monitoring. The monitoring plan shall include a quality assurance plan stating the method proposed to calibrate/audit the monitor in order to verify that the monitoring equipment has been installed and is operating properly.² **(R 336.1225, R 336.1702(a))**

See Appendix 9

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))**

- 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-RTO	34.0 ²	55.0 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 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 Mmmm for the surface coating of miscellaneous metal parts and products.² **(40 CFR Part 63, Subparts A and Mmmm)**
- The permittee shall label each emission unit including their associated control equipment according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed.² **(R 336.1201)**

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).

FGFURNACES FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Four gas fired aluminum reverberatory melt furnaces. Particulate emissions from all four furnaces will be controlled by two baghouses with a total combined rating of 90,000 standard cubic feet per minute (scfm). The two baghouses emit from one single stack.

Emission Units: EUFURNACE1 (EU-DC-0012), EUFURNACE3A (EU-DC-0013), EUFURNACE4, EUFURNACE5

POLLUTION CONTROL EQUIPMENT

Particulate emissions from all four furnaces will be controlled by two baghouses with a total combined rating of 90,000 scfm.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.006 grains/dscf ²	Instantaneous	FGFURNACES	SC V.1, VI.1	R 336.1331
2. PM ₁₀	3 pph ²	Hourly	FGFURNACES	SC V.1, VI.1	R 336.2803 R 336.2804 40 CFR 52.21 Subparts (c) & (d)
3. PM _{2.5}	2 pph ²	Hourly	FGFURNACES	SC V.1, VI.1	R 336.2803 R 336.2804 40 CFR 52.21 Subparts (c) & (d)

4. Visible emissions from FGFURNACES shall not exceed a six-minute average of 5 percent opacity.² (R 336.1301, R 336.1331, 40 CFR 52.21)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Reactive Flux	13 pph ¹	Hourly	FGFURNACES (collective, for all units under FGFURNACES)	SC VI.5	R 336.1225
2. Reactive Flux	5.0 pph ¹ during cleaning process	Hourly	FGFURNACES (collective, for all units under FGFURNACES)	SC VI.5	R 336.1225
3. Reactive Flux	39,858 lbs per year ¹	12-month rolling time period as determined at the end of each calendar month	FGFURNACES (collective, for all units under FGFURNACES)	SC VI.5	R 336.1225

4. The permittee shall charge only clean feedstock in the aluminum melting process. Clean feedstock is defined as aluminum ingots, T-bars, sows, molten aluminum, and scrap of aluminum that is free of paint, coatings, oils,

grease, or lubricants. This condition is necessary to avoid requirements of 40 CFR Part 63, Subpart RRR.¹ (R 336.1224, R 336.1225)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGFURNACES unless two baghouses are installed, maintained, and operated in a satisfactory manner.² (R 336.1224, R 336.1225, R 336.1331, R 336.1901, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

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 the PM, PM_{2.5}, and PM₁₀ emission rates by testing at owner's expense, in accordance with Department requirements, and once every five years thereafter. No less than 60 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 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))
2. The permittee shall verify PM, PM_{2.5}, and PM₁₀ emission rates from FGFURNACES 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
Visible Emission	40 CFR Part 51, Appendix M; 40 CFR Part 60, Appendix A and B

An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol. 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. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

3. The permittee shall verify the PM, PM_{2.5}, and PM₁₀ emission rates from FGFURNACES, 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)
4. 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 complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.¹ (R 336.1224, R 336.1225)
2. The permittee shall monitor each baghouse to verify it is operating properly, by taking visible emission readings for FGFURNACES a minimum of once per calendar day. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. If any visible emissions (other than uncombined water vapor) are observed, the permittee shall immediately inspect the baghouse and perform any required maintenance.² (R 336.1910)

3. The permittee shall keep, in a satisfactory manner, records of all visible emission readings for FGFURNACES. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1301, R 336.1303)**
4. The permittee shall monitor the feedstock for FGFURNACES as described in Appendix 3 to assure that only clean feedstock is used in the aluminum melting process.¹ **(R 336.1225)**
5. The permittee shall keep records as described in Appendix 3 of the monthly tonnage of aluminum melted in tons per month, the hours of operation and the hours of cleaning of FGFURNACES, the hourly usage rate of reactive flux in pounds per hour, the monthly usage of reactive flux in pounds per month and the annual usage of reactive flux in pounds per 12-month rolling time period as determined at the end of each calendar month.² **(R 336.1201(3))**

See Appendix 3 (Table 1)

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-Baghouse (one stack)	70.0 ²	60.0 ²	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall label each emission unit including their associated control equipment according to a method acceptable to the AQD District Supervisor. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed.² **(R 336.1201)**

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).

**FGMACTMMMM
 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. 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: EUHUBLINE1, EUHUBLINE4, EUHUBLINE5, EUHUBLINE6, EUROTORLINE1, EUSTATORLINE

POLLUTION CONTROL EQUIPMENT

The VOC emissions from Hub Line Nos. 1, 4 and 5, and 6 will be controlled by Permanent Total Enclosure (PTE) and a Regenerative Thermal Oxidizer (RTO).

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	2.6 lbs per gal of coating solids ²	12-month rolling time period *	Existing – General Use Coating	SC V.1, VI.1 through VI.9	40 CFR 63.3890(b)(1)
2. Organic HAP	37.7 lbs per gal of coating solids ²	12-month rolling time period *	Existing – Rubber-to-Metal Coating	SC V.1, VI.1 through VI.9	40 CFR 63.3890(b)(4)
3. Organic HAP	12.4 lbs per gal of coating solids ²	12-month rolling time period *	Existing – Extreme Performance Fluoropolymer Coating	SC V.1, VI.1 through VI.9	40 CFR 63.3890(b)(5)

* As determined at the end of each calendar month.

4. 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)**

5. 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))**

6. Any coating operation(s) using the emission rate with add-on controls option shall be in compliance with the applicable emission limits at all times except during periods of startup, shutdown, and malfunction.² **(40 CFR 63.3900(a)(2)(i))**

7. If the surface coating operations 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)

For the compliant materials option, the permittee shall meet the material limits specified in the following table.

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 & VI.5	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 & VI.5	40 CFR 63.3891(a)

* Determined according to 40 CFR 63.3941(a).

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall meet the operating limits specified in Table 1 of 40 CFR Part 63, Subpart M as identified below. The permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3967.² **(40 CFR 63.3892(b) and Table 1)**

Add-on Control Device	Operating Limit
Thermal oxidizer	i. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3967(a).
Emission capture system that is a PTE according to 40 CFR 63.3965(a).	i. The direction of the air flow at all times must be into the enclosure; and either ii. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or iii. The pressure drop across the enclosure must be at least 0.007 inch H ₂ O, as established in Method 204 of Appendix M of 40 CFR 51.

2. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall develop and implement a work practice plan (WPP), to minimize the organic HAP emissions from the storage, mixing and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation(s). The work practice plan shall specify practices and procedures to ensure at a minimum the following elements are implemented:

- a. All organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers. **(40 CFR 63.3893(b)(1))**
- b. Spills of organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized. **(40 CFR 63.3893(b)(2))**
- c. Organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes. **(40 CFR 63.3893(b)(3))**
- d. Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents. **(40 CFR 63.3893(b)(4))**
- e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment. **(40 CFR 63.3893(b)(5))**

The permittee may choose to comply with an alternative to the work practice standard, after receiving prior approval from the USEPA in accordance with 40 CFR 63.6(g).² **(40 CFR 63.3893(c))**

3. If the affected source uses an emission capture system and add-on control device, the permittee shall develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions of 40 CFR 63.6(e)(3). This SSMP 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 SSMP must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.² **(40 CFR 63.3900(c))**
4. Any coating operation(s) using the emission rate with add-on controls option shall be in compliance with the operating limits for emission capture systems and add-on control devices required by 40 CFR 63.3892 at all times except during periods of startup, shutdown, and malfunction.² **(40 CFR 63.3900(a)(2)(ii))**
5. Any coating operation(s) using the emission rate with add-on controls option shall be in compliance with the work practice standards in 40 CFR 63.3893 at all times.² **(40 CFR 63.3900(a)(2)(iii))**

See Appendix 9

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall not operate FGMACTMMMM unless the RTO and PTE (control devices) are installed, maintained, and operated in a satisfactory manner.² **(40 CFR 63.3892(b))**

V. TESTING/SAMPLING

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

1. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall conduct each performance test required by 40 CFR 63.3960 according to the requirements in 40 CFR 63.7(e)(1) and under the conditions in 40 CFR 63.3964(a)(1) and (2), unless a waiver of the performance test is obtained in accordance with 40 CFR 63.7(h).² **(40 CFR 63.3964(a))**
2. The permittee shall conduct each performance test of an emission capture system and add-on control device to determine capture efficiency and emission destruction or removal efficiency, according to the requirements in 40 CFR 63.3965 and 40 CFR 63.3966.² **(40 CFR 63.3964(b))**

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 conduct an initial compliance demonstration for the initial compliance period according to the requirements in 40 CFR 63.3941, 40 CFR 63.3951, or 40 CFR 63.3961. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3883 and ends on the last day of the 12th month following the compliance date. If the compliance date occurs on any day other than the first of the month, then the compliance period extends through that month plus the next 12 months.² **(40 CFR 63.3940, 40 CFR 63.3950, 40 CFR 63.3960)**
2. 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))**
3. 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. For the emission rate with add-on controls option, the calculations specified in 40 CFR 63.3930(c)(4)(i) through (v). **(40 CFR 63.3930(c)(4))**
 - g. 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))**
 - h. 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))**
 - i. The volume fraction of coating solids for each coating used during each compliance period. **(40 CFR 63.3930(f))**
 - j. For either the emission rate without add-on controls or with 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))**
 - k. 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))**
 - l. The date, time, and duration of each deviation. **(40 CFR 63.3930(j))**
 - m. For the emission rate with add-on controls option, records specified in 40 CFR 63.3930(k)(1) through 40 CFR 63.3930(k)(8). **(40 CFR 63.3930(k))**
4. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall demonstrate continuous compliance with the operating limits specified in Table 1 (and SC III.1) of 40 CFR Part 63, Subpart Mmmm using the applicable method(s) described below:² **(40 CFR 63.3963(c))**

Add-on Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3967(a).	i. Collect the combustion temperature data according to 40 CFR 63.3968(c); ii. Reduce the data to 3-hour block averages; and iii. Maintain the 3-hour average combustion temperature at or above the temperature limit.
Emission capture system that is a PTE according to 40 CFR 63.3965(a).	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all natural draft openings in	i. Collect the direction of air flow, and either the facial velocity of air through all natural draft openings according to 40 CFR 63.3968(g)(1) or the pressure drop across the enclosure according to 40 CFR 63.3968(g)(2); and

Add-on Control Device	Operating Limit	Continuous Compliance Demonstration Method
	<p>the enclosure must be at least 200 feet per minute; or</p> <p>c. The pressure drop across the enclosure must be at least 0.007 inch H₂O, as established in Method 204 of Appendix M of 40 CFR Part 51.</p>	<p>ii. Maintain the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit and maintain the direction of air flow into the enclosure at all times.</p>

5. 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)**
6. 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)**
7. For any coating operation(s) using the emission rate with 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 the procedures in 40 CFR 63.3961.² **(40 CFR 63.3963)**
8. During the performance test required by 40 CFR 63.3960, the permittee shall perform the applicable monitoring and recordkeeping in accordance with 40 CFR 63.3967 to establish the emission capture system and add-on control device operating limits required by 40 CFR 63.3892.² **(40 CFR 63.3967)**
9. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall install, operate, and maintain each Continuous Parameter Monitoring System (CPMS) according to the requirements of 40 CFR 63.3968(a). If the capture system contains a bypass line, the permittee shall comply with the requirements of 40 CFR 63.3968(b).² **(40 CFR 63.3968)**
10. The permittee must apply to the USEPA for approval of alternative monitoring under 40 CFR 63.8(f), if using an add-on control device other than those listed in Table 1 of 40 CFR Part 63, Subpart M, or to monitor an alternative parameter and comply with a different operating limit. **(40 CFR 63.3892(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))**
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. For the emission rate with add-on controls option, the permittee shall report the following as deviations as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(7):²
 - a. The organic HAP emission rate for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890. **(40 CFR 63.3963(b))**
 - b. An operating parameter is out of the allowed range. **(40 CFR 63.3963(c)(1))**
 - c. Any control system by-pass line, for which liquid-liquid material balances are not carried out, is opened. **(40 CFR 63.3963(d))**
 - d. Deviations from work practice standards occur. **(40 CFR 63.3963(e))**
7. 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)**
8. 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))**
9. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall submit all performance test reports for emission capture systems and add-on control devices.² **(40 CFR 63.3920(b))**
10. If the emission rate with add-on controls option is used and a startup, shutdown, or malfunction occurs during the semiannual reporting period, the permittee shall submit an SSM report as specified in 40 CFR 63.3920(c).² **(40 CFR 63.3920(c), 40 CFR 63.10(d))**

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 MMMM for Surface Coating of Miscellaneous Metal Parts and Products.² **(40 CFR Part 63, Subparts A and MMMM)**

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).

FGBOILERMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Requirements for new and existing boilers and process heaters that are designed to burn gas 1 subcategory fuel with a heat input capacity of <10 MMBTU/hr for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). These boilers or process heaters are designed to burn solid, liquid, or gaseous fuels.

Emission Units: EUFAC-AHUS, EUFAC-BOILER1, EUFAC-BOILER2, EUFAC-BOILER3, EUFAC-BOILER5, EUFAC-BOILER6, EUFAC-HEATERS.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must complete an initial tune-up as specified in SC III.4 by no later than November 30, 2022 for EUFAC-BOILER5 and EUFAC-BOILER6. **(40 CFR 63.7510(e))**
2. The permittee must, for boilers or process heaters with a heat input capacity of less than or equal to 5 MMBTU/hr, conduct a 5-year tune-up according to 40 CFR 63.7540(a)(12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The burner inspection may be delayed until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. **(40 CFR 63.7500(d) or (e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(12), 40 CFR Part 63, Subpart DDDDD, Table 3.1)**
3. The permittee must, for boilers or process heaters with a heat input capacity of greater than 5 MMBTU/hr and less than 10 MMBTU/hr, conduct a biennial tune-up of the boiler or process heater according to 40 CFR 63.7540(a)(11) no more than 25 months after the previous tune-up. **(40 CFR 63.7500(e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(11), 40 CFR Part 63, Subpart DDDDD, Table 3.2)**
4. The permittee must conduct a tune-up of each boiler or process heater as specified in the following: **(40 CFR 63.7540(a)(11) or (12))**
 - a. As applicable, inspect the burner and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune-up or may delay the burner inspection until the next scheduled unit shutdown. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
 - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**
 - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The permittee may delay the inspection until the next scheduled unit shutdown. **(40 CFR 63.7540(a)(10)(iii))**

- d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
 - e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**
- 5. If the unit is not operated on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
 - 6. At all times, the permittee must operate and maintain each existing small boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(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))**

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 must keep a copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or 2 or 5 year compliance report or one-time energy assessment, as applicable, that the permittee submitted. **(40 CFR 63.7555(a)(1))**
- 2. The permittee must keep the records in a form suitable and readily available for expeditious review. **(40 CFR 63.7560(a))**
- 3. The permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
- 4. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(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))**
4. The permittee must submit boiler or process heater tune-up compliance reports to the appropriate AQD District Office and must be postmarked or submitted by March 15th of the year following the applicable **2 or 5**-year period starting from January 1 of the year following the previous tune-up to December 31 (of the latest tune-up year). Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to EPA Region 5. **(40 CFR 63.7550(b), 40 CFR 63.7550(h)(3))**
5. The permittee must include the following information in the compliance report. **(40 CFR 63.7550(c)(1))**
 - a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
 - b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done biennially or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
 - e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(40 CFR Part 63, Subparts A and DDDDD)**

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).

FGCOLDCLEANERS 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: EUSK-JIGSHOP, EUSK-MAIN1, EUSK-PRESS, EUSK-PRESS-2, EUSK-STATOR, EUSK-DIEMAIN, EUHB1CC, EUHB4CC, EUHB5CC, EUHB6CC

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

FGRICEMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) applicable to existing Combustion Ignition RICE less than 500 HP, existing RICE greater than 500 HP, and new RICE greater than 500 HP.

Emission Units:

Existing RICE (commenced construction before June 12, 2006) less than or equal to 500 HP
EUEMERGEN1 and EUEMERGEN2

Existing RICE (commenced construction before December 19, 2002) greater than 500 HP
EUEMERGEN4

New RICE (commenced construction on or after December 19, 2002) greater than 500 HP
EUEMERGEN3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. At all times, the permittee must operate and maintain any emergency stationary reciprocating internal combustion engine (RICE), 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(b))**
2. The permittee shall not operate emergency engines for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. **(R 336.2803, R 336.2804, R336.1213(3))**
3. 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 must be performed at the same frequency specified for changing the oil in Table 2c of 40 CFR Part 63, Subpart ZZZZ. **(40 CFR 63.6625(i))**
4. In order for an engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), and listed below, is prohibited. If you do not operate the engine according to the requirements in paragraphs 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and will need to meet all requirements for non-emergency engines.
 - a. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 63.6640(f)(1))**

- b. You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs 40 CFR 63.6640(f)(2)(i) through (iii), listed below, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs 40 CFR 63.6640(f) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). **(40 CFR 63.6640(f)(2))**
 - i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator 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 calendar year.
 - ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of five percent or greater below standard voltage or frequency.
- c. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. These 50 hours of operation are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response. **(40 CFR 63.6640(f)(3))**
5. For existing CI emergency RICE with a site rating of more than 500 brake HP and new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP, the permittee shall not operate or not be contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), as stated in SC III.3.b.ii. and iii. **(40 CFR 63.6590(b)(1)(i), 40 CFR 63.6590(b)(3)(iii))**
6. For existing emergency engines \leq 500 HP, the permittee must conduct the following: **(40 CFR 63.6602, Table 2c to Subpart ZZZZ of 40 CFR Part 63)**
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first.
 - b. Inspect air cleaner (compression ignition units) or spark plugs (spark ignition units) every 1,000 hours of operation or annually whichever comes first and replace as necessary.
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
7. For existing emergency engines \leq 500 HP, the permittee must operate and maintain the stationary RICE and after treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6625(e))**
8. For existing emergency engines \leq 500 HP, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time 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) in Table 2c to Subpart ZZZZ of 40 CFR Part 63 apply. **(40 CFR 63.6625(h))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee must install a non-resettable hour-meter. **(40 CFR 63.6625(f), R 336.1213(3))**

V. TESTING/SAMPLING

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

1. If using the oil analysis program, the permittee must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base 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 engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator 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(i))**

VI. MONITORING/RECORDKEEPING

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

1. For existing emergency engines ≤ 500 HP, the permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the engine and after-treatment device (if any) was operated and maintained according to the maintenance plan. **(40 CFR 63.6655(e))**
2. The permittee must keep monthly and 12-month rolling records of the hours of operation of each engine in FGRICEMACT that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency. **(40 CFR 63.6655(f), (R336.1213(3))**
3. For existing emergency engines ≤ 500 HP, the permittee must keep records of the occurrence and duration of each malfunction of operation of the engine, or air pollution control and monitoring equipment, if installed. **(40 CFR 63.6655(a)(2))**
4. For existing emergency engines ≤ 500 HP, 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, if installed, to its normal or usual manner of operation. **(40 CFR 63.6655(a)(5))**
5. The permittee shall keep a list of all emergency engines subject to 40 CFR Part 63, Subpart ZZZZ, including the rating and date of installation of each emergency generator. **(R 336.1213(3))**
6. The permittee shall monitor and record the hours of operation of each engine in FGRICEMACT on a monthly and 12-month rolling time period. **(R 336.1213(3))**

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 to the AQD District Supervisor, a semiannual compliance report, as specified in 40 CFR 63.6650, which contains all deviations during the reporting period from any applicable emission limitation or operating limitation. If there are no deviations from any applicable emission limitations or operating limitations, the report shall contain a statement that there were no deviations during the reporting period. The first report shall cover the period beginning on the applicable compliance date specified in 40 CFR 63.6595 and ending on June 30 (postmarked or delivered by July 31) or December 31 (postmarked or delivered by January 31), whichever date is the first date following the end of the first calendar half after the applicable compliance date. Each subsequent report must cover the semiannual period from January 1 through June 30, or from July 1 through December 31. The subsequent reports must be postmarked or delivered by July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period, except as allowed in 40 CFR 63.6650(b)(5). The compliance report must also contain the following information, as specified in 40 CFR 63.6650(c) and (d):
 - a. Company name and address.
 - b. Certification of the report by a responsible official.
 - c. Date of report and beginning and ending dates of the reporting period.
 - d. The number of malfunctions, including a brief description of each event, that occurred during the reporting period and a demonstration that the Malfunction Plan was followed during such events.
 - e. The total operating time of the RICE at which the deviation occurred during the reporting period.
 - f. The number, duration, and cause of deviations and the corrective action taken.

A copy of the compliance report shall be kept on file for a period of at least five years (at least two years at the site) and made available to the Department upon request. **(40 CFR 63.6640(b), 40 CFR 63.6650(b),(c),(d), 40 CFR 63.6660)**

5. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 or 71 must report all deviations as defined in 40 CFR Part 63, Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of 40 CFR Part 63, Subpart ZZZZ along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR Part 63, Subpart ZZZZ, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.
 - a. For each engine in FGRICEMACT that is an emergency stationary engine with a site rating of more than 100 brake hp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii), you must submit an annual report according to the requirements below and as specified in 40 CFR 63.6650(h). **(40 CFR 63.6650(h), 40 CFR 63.6660)**
 - b. The report must contain the following information:
 - i. Company name and address where the engine is located.
 - ii. Date of the report and beginning and ending dates of the reporting period.
 - iii. Engine site rating and model year.
 - iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - v. Hours operated for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii).
 - vi. Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii).
 - vii. Hours spent for operation for the purpose specified in 40 CFR 63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 63.6640(f)(4)(ii). The report

must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

- viii. If there were no deviations from the fuel requirements in 40 CFR 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
- ix. If there were deviations from the fuel requirements in 40 CFR 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.
- x. The permittee shall submit annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through USEPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13. **(40 CFR 63.6650(f))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with the applicable provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subparts A and ZZZZ for Stationary Reciprocating Internal Combustion Engines. **(40 CFR Part 63 Subparts A and ZZZZ)**

**FGEMERG-III
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Consists of emergency, stationary, compression ignition (CI) internal combustion engines (ICE), which commenced construction after July 11, 2005, where the stationary, CI ICE are manufactured after April 1, 2006, and are not fire pump engines, which are subject to The Standards of Performance for Stationary Compression Ignition Internal Combustion Engines under 40 CFR Part 60, Subpart IIII. For the purpose of Subpart IIII, the date that construction commences is the date the engine is ordered by the owner or operator.

Emission Unit: EUEMERGEN4

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

1. Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines (EUEMERGEN4) must comply with the emission standards of 40 CFR 60.4202. Emission standards must be met for the life of the engine. **(40 CFR 60.4205(b), 40 CFR 60.4206)**

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 60.4211(f)(1))**
2. The permittee may operate each engine in FGEMERG-III for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. 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 internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4211(f)(2))**
3. Each engine in FGEMERG-III may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as provided in 40 CFR 60.4211(f)(2). Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f)(3))**

4. The owner or operator must operate and maintain the stationary CI ICE and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply to you. **(40 CFR 60.4211(a)(1), (2), and (3))**
5. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 40 CFR 60.4205 over the entire life of the engine. **(40 CFR 60.4206)**
6. The owner or operator must purchase an engine certified according to 40 CFR Part 89 or 40 CFR Part 94 as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. **(40 CFR 60.4211(b)(1))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The owner or operator shall equip and maintain each engine in FGEMERG-III with non-resettable hour meters to track the operating hours. **(40 CFR 60.4209(a))**

V. TESTING/SAMPLING

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

1. If any engine greater than 500 HP or any control device in FGEMERG-III is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or if emission-related settings are changed in a way that is not permitted by the manufacturer, the permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards. **(40 CFR 60.4211(g)(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 keep records of the following for FGEMERG-III:
 - a. All notifications. **(40 CFR 60.4211(b))**
 - b. All maintenance performed on the engine. **(40 CFR 60.4211(b))**
 - c. If using a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards of 40 CFR Part 60, Subpart III. **(40 CFR 60.4211(b))**
 - d. If not using a certified engine, documentation that the engine meets the emission standards, which shall be demonstrated with an initial performance test within one year of engine installation. **(40 CFR 60.4211(b))**
 - e. The permittee shall keep a complete copy of the diesel fuel analysis including the sulfur content in percent, as supplied by the vendor for each shipment of diesel fuel received. **(40 CFR 60.4207 (a) and (b))**
2. For each engine in FGEMERG-III, 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 60.4214(b))**
3. If any engine over 500 HP or control device in FGEMERG-III is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or if emission-related settings are changed in a way that is not permitted by the manufacturer, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(3))**

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))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, as specified in 40 CFR Part 60, Subparts A and IIII, as they apply to FGEMERG-III. **(40 CFR Part 60, Subparts A and IIII)**
2. FGEMERG-III complies with the applicable requirements of the NESHAP for Stationary Reciprocating Internal Combustion Engines, as specified in 40 CFR Part 63, Subpart ZZZZ by complying with 40 CFR Part 60, Subpart III. **(40 CFR 63.6590(c))**

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).

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 FGFURNACES.

Table 1. FGFURNACES

Applicable Requirement	0.10 pound particulate matter per 1000 pound exhaust gases on a dry basis	Maximum Annual Reactive Flux Usage of 39,858 lbs per year	Maximum Hourly Reactive Flux Usage of 10 pounds per hour during normal operation	Maximum Hourly Reactive Flux Usage of 5.0 pounds per hour during cleaning operation	Control Feedstock: aluminum ingots, T-bars, sows, molten aluminum and scrap aluminum that the applicant has certified are entirely free of paint, coatings, oils, grease, or lubricants.	Amount of aluminum melted
General Monitoring Approach	Testing protocol only.	Use of most current usage records	Reactive Flux usage and hours of operation tracking	Reactive Flux usage and hours of cleaning tracking	Permittee will draft Standard Operating Procedures (SOPs) for controlling feedstock. The SOPs must be submitted to and approved by the AQD within 3 months of ROP issuance.	Aluminum melted tracking in tons
Monitoring Methods and Location	Testing protocol only.	NA	A standard measurement tool/device at feed/loading area.	A standard measurement tool/device at feed/loading area.	SOP will be posted at locations where feedstock is received and stored.	A standard scale is used to weigh scrap material before melting. Ingot bundle weights are determined and marked on the bundle by the aluminum supplier.
Indicator Range	Testing protocol only.	Calculations will be performed on a monthly basis for comparison with limit.	Calculations will be performed monthly for comparison with limit.	Calculations will be performed monthly for comparison with limit.	NA	NA

Data Collection Frequency	Testing protocol only.	No less than monthly.	As material is needed	As material is needed.	As needed.	No longer than monthly.
Averaging Period	Testing protocol only.	The averaging period will not be shorter than one month to determine 12 month rolling time period.	The averaging period will be monthly.	The averaging period will be monthly.	NA	NA
QA/QC	Testing protocol only.	Operating procedures will be provided and maintained to staff/operators with sign-off by responsible person.	Operating procedures will be provided and maintained to staff/operators with sign-off by responsible person.	Operating procedures will be provided and maintained to staff/operators with sign-off by responsible person.	Operating procedures will be provided and maintained to staff/operators with sign-off by responsible person.	Operating procedures will be provided and maintained to staff/operators with sign-off by responsible person.
Record Keeping	Legible and retrievable records will be kept.	Monthly records are required to be kept for materials used.	Legible and retrievable records will be kept.	Legible and retrievable records will be kept.	NA	Legible and retrievable records will be kept.

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-N1966-2015. 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-N1966-2015 is being reissued as Source-Wide PTI No. MI-PTI-N1966-2020.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
NA	NA	NA	NA

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.

Appendix 9. Start-up, Shut-down, Malfunction Plan, Malfunction Abatement Plan, Differential Monitoring Plan, and Work Practice Plan

- A. The permittee shall implement and maintain a Start-up, Shut-down, Malfunction Plan (SSMP) and a Malfunction Abatement Plan (MAP) for the **EUHUBLINE1, 4, 5, and 6**.

An approved SSMP including a MAP, last revision dated June 8, 2020, was submitted to the AQD Jackson District Supervisor. The approved plan covers all the various Air Pollution Control Devices (permanent total enclosure (PTE), and regenerative thermal oxidizer (RTO)) on **EUHUBLINE1, 4, 5, and 6**. Any modifications to the plan shall be submitted to the AQD District Supervisor for approval, and are subject to review by the AQD. Records in support of the activities required by the plan shall be maintained. These records shall be made available upon inspection of the facility, or as otherwise requested by AQD.

- B. The permittee shall implement and maintain an Air Pressure Differential Monitoring Plan (DMP) for the **EUHUBLINE1, 4, 5, and 6**.

An approved DMP, last revision dated June 8, 2020, was submitted to the AQD Jackson District Supervisor. The approved plan covers the PTE on the EUHUBLINES. Any modifications to the plan shall be submitted to the AQD District Supervisor for approval and are subject to review by the AQD. Records in support of the activities required by the plan shall be maintained. These records shall be made available upon inspection of the facility, or as otherwise requested by AQD.

- C. The permittee shall implement and maintain a Work Practice Plan (WPP) as required by **FGMACTMMMM** for **EUHUBLINE1, 4, 5, 6, EUROTORLINE1, and EUSTATORLINE**

An approved WPP, last revision dated June 8, 2020, was submitted to the AQD Jackson District Supervisor. The approved plan covers the Coating and Solvent Use Work Practices for all EU/FG coating lines. Any modifications to the plan shall be submitted to the AQD District Supervisor for approval and are subject to review by the AQD. Records in support of the activities required by the plan shall be maintained. These records shall be made available upon inspection of the facility, or as otherwise requested by AQD.