

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

EFFECTIVE DATE: September 22, 2020

REVISION DATE: August 16, 2023

ISSUED TO

General Motors LLC - Orion Assembly

State Registration Number (SRN): B7227

LOCATED AT

4555 Giddings Road, Lake Orion, Oakland County, Michigan 48359

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B7227-2020a

Expiration Date: September 22, 2025

Administratively Complete ROP Renewal Application
Due Between March 22, 2024 and March 22, 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 Michigan Air Pollution Control Rule 210(1), 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-B7227-2020a

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(5) of Act 451. Pursuant to Michigan Air Pollution Control Rule 214a, 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

Joyce Zhu, Warren 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 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 are 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 percent opacity, except for one 6-minute average per hour of not more than 27 percent 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 states 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. **(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(8))**

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 Part 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 CONDITIONS

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

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

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-PRETREATMENT	Pretreatment of vehicle surface to prepare it for E-coat.	03-01-2010/ 03-08-2013	FG-FACILITY
EU-ECOAT	Prime coating operations are performed in an electrodeposition tank followed by a curing oven, a cooling zone, and a dry filter scuff booth.	03-01-2010/ 03-08-2013	FG-FACILITY FG-CONTROLS FG-MACT
EU-SEALERADH	Various sealers, adhesives and fillers are applied in the body shop, the paint shop and the general assembly areas.	03-01-2010/ 03-08-2013	FG-FACILITY FG-CONTROLS FG-MACT
EU-SOUND DAMP	An acoustical damper product that will be applied using robotic spray equipment. There are no VOC emissions, PM emissions nor any stacks associated with this process.	03-01-2010/ 03-08-2013	FG-FACILITY FG-MACT
EU-THREE WET	Two parallel coating processes each consisting of an automatic basecoat prime booth, a heated flash-off area, an automatic basecoat booth, a heated flash-off area, an automatic clearcoat booth, a curing oven, a cooling zone, and a finesse booth.	03-01-2010/ 03-08-2013	FG-FACILITY FG-CONTROLS FG-MACT
EU-GLASS INSTALL	Materials used to bond the windshield and rear windows to the vehicle.	03-01-2010/ 03-08-2013	FG-FACILITY FG-MACT
EU-FINAL REPAIR	Dry filter booths used for repair paint application.	03-01-2010/ 03-08-2013	FG-FACILITY FG-MACT
EU-PURGE&CLEAN	Solvents used for cleanup and purge of facility paint systems. A solvent recovery system is in place to recover solvents used in the purging of automatic spray guns. Also included is a manual body wipe.	03-01-2010/ 03-08-2013	FG-FACILITY FG-CONTROLS FG-MACT
EU-VEHICLE FLUID FILL	Each new vehicle will be filled with various fluids such as power steering fluid, antifreeze, transmission fluid, engine oil, windshield washer fluid, refrigerant, and fuel. All vehicles being filled with fuel shall be equipped with an Onboard Re-Fueling Vapor Recovery System (ORVR) to control VOC emissions.	03-01-2010/ 03-08-2013	FG-FACILITY

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-NATURAL GAS	Natural gas burning will take place in the ovens, the paint booth air supply houses, the thermal oxidizer, and miscellaneous support equipment installed under this permit. Note: The facility's boilers and all equipment at the powerhouse are not covered under this permit.	03-01-2010/ 03-08-2013	FG-FACILITY
EU-FUEL TANK1	An above ground fuel storage tank equipped with submerged fill pipes and conservation vents. The fuel storage tank is filled using a vapor balance system.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-FUEL TANK2	An above ground fuel storage tank equipped with submerged fill pipes and conservation vents. The fuel storage tank is filled using a vapor balance system.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-WWF TANK	An above ground windshield washer fluid (ethanol) storage tank equipped with submerged fill pipes and conservation vents.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-AF TANK	An above ground antifreeze storage tank equipped with submerged fill pipes and conservation vents.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-TF TANK1	An above ground transmission fluid storage tank equipped with submerged fill pipes and conservation vents.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-TF TANK2	An above ground transmission fluid storage tank equipped with submerged fill pipes and conservation vents.	03-01-2010/ 03-08-2013	FG-TANKS FG-FACILITY
EU-BOILER 1	This is an 82 million BTU per hour (24.01 megawatts (MW)) heat input natural gas fired boiler with a steam production capacity of 70,000 pounds (31.75 megagrams (Mg)) per hour.	Inst: 01-01-80 Mod: 06-24-88	FG-BOILERS FG-BOILER MACT
EU-BOILER 2	This is a 248 million BTU per hour (72.62 megawatts (MW)) heat input natural gas (NG) and landfill gas (LFG) fired boiler with a steam production capacity of 200,000 pounds per hour (90.72 megagrams (Mg)) per hour).	Inst: 01-01-80 Mod: 06-24-88	FG-BOILERS FG-BOILER MACT
EU-Lochinvar Boiler East	A 5MMBtu/hr natural gas hot water heater.	12-22-2015	FG-BOILER MACT FG-FACILITY
EU-Lochinvar Boiler West	A 5 MMBtu/hr natural gas hot water heater.	12-22-2015	FG-BOILER MACT FG-FACILITY
EUENGINE1	A 2,242 hp landfill gas fired reciprocating internal combustion engine.	2014	FGENGINES FGRICEMACT
EUENGINE2	A 2,242 hp landfill gas fired reciprocating internal combustion engine.	2014	FGENGINES FGRICEMACT
EUENGINE3	A 2,242 hp landfill gas fired reciprocating internal combustion engine.	2014	FGENGINES FGRICEMACT
EUENGINE4	A 2,242 hp landfill gas fired reciprocating internal combustion engine.	2014	FGENGINES FGRICEMACT
EUENGINE5	A 2,242 hp landfill gas fired reciprocating internal combustion engine.	2014	FGENGINES FGRICEMACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-EMERGENCY ENGINE 1	Existing Compression Ignition Diesel fueled emergency generator engine with a 268 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
EU-EMERGENCY ENGINE 2	Existing Compression Ignition Diesel fueled emergency generator engine with a 268 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
EU-EMERGENCY ENGINE 3	Existing Compression Ignition Diesel fueled emergency generator engine with a 268 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
EU-EMERGENCY ENGINE 4	Existing Compression Ignition Diesel fueled emergency generator engine with a 268 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
EU-EMERGENCY ENGINE 5	Existing Compression Ignition Diesel fueled emergency generator engine with a 1,341 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ– EXISTING EMERGENCY CI > 500 HP
EU-FIRE PUMP PH	Existing Compression Ignition Diesel fueled fire pump engine with a 288 HP rating. Subject to NESHAP ZZZZ.	1981	FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
EU-EMERGENCY ENGINE NATURAL GAS	Spark Ignition Natural Gas fueled emergency generator engine with a 469 HP rating. Subject to NESHAP ZZZZ and NSPS JJJJ.	2011	FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP
EU-NEWFIREPUMPA48	Compression Ignition Diesel fueled fire pump engine with a 175 HP rating. Subject to NESHAP ZZZZ and NSPS IIII.	2017	FG-NSPS IIII FIRE PUMP > 100 HP BUT < 500 HP

EU-PRETREATMENT EMISSION UNIT CONDITIONS

DESCRIPTION

Pretreatment of vehicle surface to prepare it for E-coat.

Flexible Group ID: FG-FACILITY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The heat input capacity of each hot water heater portion of EU-PRETREATMENT shall not exceed a maximum of 99.9 MM BTU per hour.² **(R 336.1213(3)(b)(ii))**

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))**

NA

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to each hot water heater portion of EU-PRETREATMENT.² **(40 CFR Part 60, Subparts A & Dc)**

Footnotes:

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

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

EU-ECOAT EMISSION UNIT CONDITIONS

DESCRIPTION

Prime coating operations are performed in an electrodeposition tank followed by a curing oven, a cooling zone, and a dry filter scuff booth.

Flexible Group ID: FG-FACILITY, FG-CONTROLS, FG-MACT

POLLUTION CONTROL EQUIPMENT

- Regenerative thermal oxidizer control of VOC emissions from the electrodeposition tank and the curing oven
- Dry filter particulate controls on the scuff booth portion of EU-ECOAT

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the electrodeposition tank, curing oven, and cooling zone portions of EU-ECOAT unless the regenerative thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of regenerative thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400°F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1400°F based upon a three-hour rolling average.² **(R 336.1224, 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 VOC content, water content and density of the resin, pigment and additives, as added to the ECOAT tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the ECOAT tank shall be verified by testing using federal Reference Test Method 24.² **(R 336.1702(a), R 336.2040, R 336.2041)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-1 (RTO Stack)	72.0 ²	83.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SV-3 (ELPO Cooler 1)	62.0 ²	62.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. SV-4 (ELPO Cooler 2)	62.0 ²	62.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. SV-11 (ELPO Oven Radiant Tube)	48.0 ²	62.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

5. The exhaust gases from the scuff booth portion of EU-ECOAT shall not be discharged to the ambient air at any time.² **(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-SEALERADH
EMISSION UNIT CONDITIONS**

DESCRIPTION

Various sealer, adhesives and fillers are applied in the body shop, the paint shop and the general assembly areas.

Flexible Group ID: FG-FACILITY, FG-CONTROLS, FG-MACT

POLLUTION CONTROL EQUIPMENT

Regenerative thermal oxidizer control of VOC emissions from the curing oven.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the curing oven portion of EU-SEALERADH unless the regenerative thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of regenerative thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400°F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1400°F based upon a three-hour rolling average.² (R 336.1224, 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 VOC content of each sealer and adhesive shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Testing shall be conducted at representative time(s) and temperature(s) used to cure the related sealer or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content of each sealer and adhesive shall be verified by testing.² (R 336.1220(a), R 336.2040, R 336.2041)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-1 (RTO Stack)	72.0 ²	83.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SV-5 (Sealer Cooler 1)	60.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d) ²
3. SV-8 (Sealer Canopy & Sealer Oven Radiant Tube)	30.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-SOUND DAMP
EMISSION UNIT CONDITIONS**

DESCRIPTION

An acoustical damper product that will be applied using robotic spray equipment. There are no VOC emissions, PM emissions nor any stacks associated with this process.

Flexible Group ID: FG-FACILITY, FG-MACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The sound dampening materials used in EU-SOUND DAMP shall not contain any VOCs.² (R 336.1225, R 336.1702(a))

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any sound dampening material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.² (R 336.1702(a), R 336.2040, R 336.2041)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from EU-SOUND DAMP shall not be discharged to the ambient air at any time.² **(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-THREE WET EMISSION UNIT CONDITIONS

DESCRIPTION

Two parallel coating processes each consisting of an automatic basecoat Prime booth, a heated flash-off area, an automatic basecoat booth, a heated flash-off area, an automatic clearcoat booth, a curing oven, a cooling zone, and a finesse booth.

Flexible Group ID: FG-FACILITY, FG-CONTROLS, FG-MACT

POLLUTION CONTROL EQUIPMENT

- Regenerative thermal oxidizer control of VOC emissions from the two clearcoat booths, the four heated flash-off areas, and the two curing ovens
- Water wash particulate controls on the spray booth portions of EU-THREE WET

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the two clearcoat booths, the four heated flash-off areas, and the two curing ovens portions of EU-THREE WET unless the regenerative thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the regenerative thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400°F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1400°F based upon a three-hour rolling average.² (R 336.1224, R 336.1225, R 336.1702(a), R 336.1910)
2. The permittee shall not operate the spray booth portions of EU-THREE WET unless the water wash particulate controls are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the water wash particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY, SC VI. 2.² (R 336.1301, R 336.1331, 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 VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.² (R 336.1702(a), R 336.2040, R 336.2041)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-1 (RTO Stack)	72.0 ²	83.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SV-2 (Main Paint Stack)	132.0 ²	143.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. SV-6 (Topcoat Cooler 1)	66.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. SV-7 (Topcoat Cooler 2)	46.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
5. SV-9 (Topcoat Canopy 1 & Topcoat Oven Radiant Tube 1)	29.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
6. SV-10 (Topcoat Canopy 2 & Topcoat Oven Radiant Tube 2)	29.0 ²	51.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EU-GLASS INSTALL
EMISSION UNIT CONDITIONS**

DESCRIPTION

Materials used to bond the windshield and rear windows to the vehicle.

Flexible Group ID: FG-FACILITY, FG-MACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any glass adhesive material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.² (R 336.1702(a), R 336.2040, R 336.2041)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

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

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year.
(R 336.1213(4)(c))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from EU-GLASS INSTALL shall not be discharged to the ambient air at any time.²
(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-FINAL REPAIR
EMISSION UNIT CONDITIONS**

DESCRIPTION

Dry filter booths used for repair paint application.

Flexible Group ID: FG-FACILITY, FG-MACT

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the spray booth portions of EU-FINAL REPAIR.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any spray booth portion of EU-FINAL REPAIR unless the dry filter particulate controls are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY, SC VI. 2.² (R 336.1331, 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 VOC content, water content and density of any coating as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.² (R 336.1702(d), R 336.2040, R 336.2041)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-13 (Final Repair 1)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SV-14 (Final Repair 2)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. SV-15 (Final Repair 3)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. SV-16 (Final Repair 4)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
5. SV-17 (Final Repair 5)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
6. SV-18 (Final Repair 6)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
7. SV-19 (Final Repair 7)	36.0 ²	61.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-PURGE&CLEAN
EMISSION UNIT CONDITIONS**

DESCRIPTION

Solvents used for cleanup and purge of facility paint systems. A solvent recovery system is in place to recover solvents used in the purging of automatic spray guns. Also included is a manual body wipe.

Flexible Group ID: FG-FACILITY, FG-CONTROLS, FG-MACT

POLLUTION CONTROL EQUIPMENT

VOC emissions from the clear coat booth portion of EU-THREE WET are controlled by a regenerative thermal oxidizer.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-VEHICLE FLUID FILL EMISSION UNIT CONDITIONS

DESCRIPTION

Each new vehicle will be filled with various fluids such as power steering fluid, antifreeze, transmission fluid, engine oil, windshield washer fluid, refrigerant, and fuel. All vehicles being filled with fuel shall be equipped with an Onboard Re-Fueling Vapor Recovery System (ORVR) to control VOC emissions.

Flexible Group ID: FG-FACILITY

POLLUTION CONTROL EQUIPMENT

All vehicles being filled with fuel shall be equipped with an Onboard Re-Fueling Vapor Recovery System (ORVR) to control VOC emissions.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not add fuel to any vehicle without an Onboard Re-fueling Vapor Recovery system unless the VOC emissions from the fuel filling process are controlled by a VOC control device, which achieves a minimum of 95% (by weight) destruction efficiency.² **(R 336.1224, R336.1225, 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))**

NA

VI. MONITORING/RECORDKEEPING

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

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-12 (Vehicle Fuel Fill)	44.0 ²	59.0 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-NATURAL GAS
EMISSION UNIT CONDITIONS**

DESCRIPTION

Natural gas burning will take place in the ovens, the paint booth air supply houses, the thermal oxidizer, and miscellaneous support equipment installed under this permit.

Note: The facility's boilers and all equipment at the powerhouse are covered under FG-BOILERS of this permit.

Flexible Group ID: FG-FACILITY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-BOILER 2
EMISSION UNIT CONDITIONS

DESCRIPTION

This is a 248 million BTU per hour (72.62 megawatts (MW)) heat input natural gas (NG) and landfill gas (LFG) fired boiler with a steam production capacity of 200,000 pounds per hour (90.72 megagrams (Mg) per hour).

Flexible Group ID: FG-BOILERS, FG-BOILER MACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not burn a fuel other than natural gas (NG) and landfill gas (LFG). **(R 336.1201)²**

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))**

NA

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-001	120 ²	250 ²	R 336.1201(3)

IX. OTHER REQUIREMENT(S)

NA

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).

D. FLEXIBLE GROUP 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. EU-FUEL TANK1, EU-FUEL TANK2, EU-WWF TANK, EU-AF TANK, EU-PSF TANK, EU-TF TANK.

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-TANKS	Any new (placed into operation on or after July 1, 1979) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.	EU-FUEL TANK1 EU-FUEL TANK2 EU-WWF TANK EU-AF TANK EU-TF TANK1 EU-TF TANK2
FG-COLDCLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(r)(iv). New cold cleaners were placed into operation on or after July 1, 1979.	
FG-RULE 287(c)	Any existing or future emission unit that emits air contaminants that are exempt from the requirements of R 336.1201 pursuant to R 336.1278 and R 336.1287(c).	
FG-RULE290	Any existing or future emission unit that emits air contaminants which are exempt from the requirements of R 336.1201 pursuant to R 336.1290.	
FG-CONTROLS	A single regenerative thermal oxidizer used for control of VOC emissions from the clearcoat paint spray booths, the flash-off areas, and the curing ovens.	EU-ECOAT EU-SEALERADH EU-THREE WET

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MACT	Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment.	EU-PRETREATMENT EU-ECOAT EU-SEALERADH EU-SOUND DAMP EU-THREE WET EU-GLASS INSTALL EU-FINAL REPAIR EU-PURGE&CLEAN
FG-FACILITY	This flexible group covers equipment used for automotive assembly and painting operations for the Orion Assembly Plant.	All emission units and flexible groups associated with the automotive assembly and painting operations.
FG-MACT ZZZZ EXISTING EMERGENCY CI < 500 HP	This flexible group includes existing compression ignition (CI) diesel fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating less than or equal to 500 brake horsepower (HP) and subject to 40 CFR 60, Subpart ZZZZ.	EU-EMERGENCY ENGINE 1 EU-EMERGENCY ENGINE 2 EU-EMERGENCY ENGINE 3 EU-EMERGENCY ENGINE 4 EU-FIRE PUMP PH
FG-MACT ZZZZ EXISTING EMERGENCY CI > 500 HP	This flexible group includes existing compression ignition (CI) diesel fired stationary reciprocating internal combustion engines (RICE)) that have a maximum site rating of greater than 500 (HP) and subject to 40 CFR 60, Subpart ZZZZ.	EU-EMERGENCY ENGINE 5
FG-NSPS JJJJ EMERGENCY > 100 HP BUT <500 HP	This flexible group includes new emergency spark ignition (SI) natural gas fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR 60, Subpart JJJJ.	EU-EMERGENCY ENGINE NATURAL GAS
FG-NSPS IIII EMERGENCY > 100 HP BUT <500 HP	This flexible group includes new emergency compression ignition (CI) diesel fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR 60, Subpart IIII.	EU-NEWFIREPUMPA48

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-BOILERS	<p>EU-BOILER 1. This is an 82 million BTU per hour (24.01 megawatts (MW)) heat input natural gas fired boiler with a steam production capacity of 70,000 pounds (31.75 megagrams (Mg)) per hour.</p> <p>EU-BOILER 2. This is a 248 million BTU per hour (72.62 MW) heat input natural gas (NG) and landfill gas (LFG) fired boiler with a steam production capacity of 200,000 pounds (90.72 Mg) per hour. The baghouse has been removed because the boiler does not burn coal anymore; it burns only gaseous fuels (natural gas and landfill gas).</p>	EU-BOILER 1 EU-BOILER 2
FG-BOILER MACT	Major Source Boiler MACT, Boiler/Process Heater, Existing Gas 1 Fuel Subcategory requirements per 40 CFR Part 63, Subpart DDDDD.	EU-BOILER 1 EU-BOILER 2 EU-Lochinvar Boiler East EU-Lochinvar Boiler West
FGENGINES	Five landfill gas fired reciprocating internal combustion engines driving electric generators.	EUENGINE1 EUENGINE2 EUENGINE3 EUENGINE4 EUENGINE5
FGRICEMACT	New and reconstructed non-emergency engines greater than 500 hp firing landfill/digester gas, located at a major source of HAPs. Commenced construction or reconstruction on or after December 19, 2002.	EUENGINE1 EUENGINE2 EUENGINE3 EUENGINE4 EUENGINE5

FG-COLDCLEANERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(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 Unit: 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(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(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

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 month 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(h).
 - d. The applicable Rule 201 exemption.
 - e. The Reid vapor pressure of each solvent used.
 - f. If applicable, the option chosen to comply with Rule 707(2).
- 3. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner. **(R 336.1611(3), R 336.1707(4))**
- 4. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis. **(R 336.1213(3), R 336.1611(2)(c), R 336.1707(3)(c))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FG-TANKS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any new (placed into operation on or after 7/1/79) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.

Emission Units: EU-FUEL TANK1, EU-FUEL TANK2, EU-WWF TANK, EU-AF TANK, EU-TF TANK1, EU-TF TANK2

POLLUTION CONTROL EQUIPMENT

Submerged fill pipes and conservation vents.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not have a combined throughput of more than 1,638,000 gallons of gasoline in EU-FUEL TANK1 and EU-FUEL TANK2 together per 12-month rolling time period as determined at the end of each calendar month.¹ **(R 336.1205, R 336.1225)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe.² **(R 336.1703(1))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep a record of the following for each storage vessel:
 - a. The identification (name, tank #, etc.).
 - b. Location within the plant.
 - c. The capacity of the vessel.
 - d. The date of installation / modification
 - e. The type of material contained in the vessel.
 - f. The true vapor pressure of the material contained in the vessel at actual storage conditions.
 - g. The applicable requirements **(R 336.1606; R 336.1703; NSPS K, Ka or Kb)**

2. The permittee shall keep the following information on a monthly basis for EU-FUEL Tank1 and EU-FUEL Tank2 combined:
 - a. A record of the types of fuel stored.
 - b. Gallons of each fuel type added and removed per month.
 - c. Combined fuel throughput calculations determining the annual throughput in gallons 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.¹ **(R 336.1205, R 336.1225)**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards or NSPS (40 CFR, Part 60, Subparts A, K, Ka, Kb) based upon installation or modification date and applicability and designation of affected facility provisions in 40 CFR 60.110, 60.110a, 60.110b. Construction, reconstruction, or modification dates are as follows: **(40 CFR, Part 60, Subparts A, K, Ka, Kb)¹**
 - Subpart Kb: after July 23, 1984.

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).

FG-CONTROLS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A single regenerative thermal oxidizer used for control of VOC emissions from the clearcoat paint spray booths, the flash-off areas, and the curing ovens.

Emission Units: EU-ECOAT, EU-SEALERADH, EU-THREE WET

POLLUTION CONTROL EQUIPMENT

A single regenerative thermal oxidizer used for control of VOC emissions from the clearcoat paint spray booths, the flash-off areas, and the curing ovens.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall develop, maintain and implement an Operation and Maintenance Plan (O & M Plan) for FG-CONTROLS. The O & M Plan shall contain the minimum requirements as outlined in Appendix 9-1. The O & M Plan shall be updated as necessary to reflect changes in equipment and monitoring, to implement corrective actions and to address malfunctions. Changes in the O & M Plan as outlined in Appendix 9-1 shall be submitted to the AQD District Supervisor for review and approval. All records and activities associated with the O & M Plan shall be made available to the Department upon request.² (R 336.1220(a), R 336.1910, R 336.1911, 40 CFR 64.6(c)(1)(iii))

See Appendix 9

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the thermal oxidizer in FG-CONTROLS to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request.^{2,a} (R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, 40 CFR 60 Subpart MM, 40 CFR 64.6(c)(1)(i), (ii), (iii))

2. The permittee shall maintain records of maintenance and repair activities. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request.² **(R 336.1910, 40 CFR 64.9(b)(1))**
3. The permittee shall validate or recalibrate each thermocouple controlling the combustion chamber temperature associated with the regenerative thermal oxidizer on an annual basis. In lieu of validation or recalibration the thermocouples may be replaced. Records of the validation, recalibration, or replacement shall be kept on file and made available to the Department upon request.² **(R 336.1213(3), 40 CFR 64.6(c)(1)(i), (ii), 40 CFR 64.7(e))**
4. For each control device in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request.² **(40 CFR 64.3(a)(2))**
5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 40 CFR 64.7(c))**
6. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**
7. The permittee shall properly maintain the monitoring system including but not limited to, maintaining necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**
8. The permittee shall not operate the electrodeposition tank, curing oven portions of EU-ECOAT, the two clearcoat booths, the four heated flash-off areas, and the two curing ovens portions of EU-THREE WET unless the regenerative thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the regenerative thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400°F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1400°F based upon a three-hour rolling average.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, 40 CFR 64.6(c)(1)(i))**

^a In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined VOC emission limit shall be considered compliance with the VOC emission limit established by **R 336.1225, and R 336.1702(a)** and also compliance with the Monitoring requirements found in **40 CFR 60.392(b)**, an additional applicable requirement that has been subsumed within this condition.

VII. REPORTING

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

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

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).

**FG-AUTOMACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 40 CFR 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment.

Emission Units: EU-ECOAT, EU-SEALERADH, EU-SOUND DAMP, EU-THREE WET, EU-GLASS INSTALL, EU-FINAL REPAIR, EU-PURGE&CLEAN

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.30 lb per GACS ²	Calendar month	New – FG-MACT WITH EU-ECOAT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(a)
2. Organic HAP*	0.50 lbs per GACS ²	Calendar month	New – FG-MACT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(b)
3. Organic HAP	0.01 lb per lb of coating ²	Calendar month	New – EU-SEALERS	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 lb per lb of coating ²	Calendar month	New – EU-SOUND DAMP	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(d) or 63.3091(d)

- **FG-MACT** includes Guidecoat, Topcoat, Final Repair, Glass Bonding Primer, and Glass Bonding Adhesive operations plus all coatings and thinners, except for deadener materials and adhesive and sealers not part of glass bonding systems.
- **FG-MACT WITH EU-ECOAT** also includes Electrocoat operations in addition to all of the operations of FG-MACT.
- **EU-SEALERADH** include only adhesives and sealers that are not part of glass bonding systems.

*The permittee may choose to comply with this limit if the requirements of Condition No. I.5 is met.

5. The permittee may choose to comply with either Special Condition numbers I.1 or I.2. The permittee may choose to comply with Special Condition number I.2 only if Electrocoat system (EU-ECOAT) meets either of the following requirements.² **(40 CFR 63.3092)**
 - a. Each individual material added to the Electrocoat system contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any OSHA-defined carcinogenic organic HAP, or
 - b. The emissions from all Electrocoat bake ovens are captured and ducted to a CONTROL DEVICE having a minimum destruction or removal efficiency of at least 95 percent (by weight).

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall develop and implement a work practice plan to minimize the organic HAP emissions from the storage, mixing and conveying of coatings, thinners, and cleaning materials used in, and waste materials generated by all coating operations for which an emission limit has been established under Special Condition Nos. I.1 through I.4. The work practice plan must specify practices and procedures to ensure that, at a minimum, the following elements are implemented consistent with the requirements of 40 CFR 63.3094: The permittee shall comply with the applicable work practice plans at all times.
 - a. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
 - b. The risk of spills of organic-HAP containing coatings, thinners, cleaning materials, and waste materials must be minimized.
 - c. Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
 - d. Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.
 - e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
 - f. Organic HAP emissions from cleaning and from purging of equipment associated with all coating operations subject to emission limits in Special Conditions Nos. I.1 through I.4 above must be minimized through a plan addressing:
 - i. Vehicle body wipe pursuant to 40 CFR 63.3094(c)(1)(i);
 - ii. Coating line purging pursuant to 40 CFR 63.3094(c)(1)(ii);
 - iii. Coating system flushing pursuant to 40 CFR 63.3094(c)(1)(iii);
 - iv. Cleaning of spray booth grates pursuant to 40 CFR 63.3094(c)(1)(iv);
 - v. Cleaning of spray booth walls pursuant to 40 CFR 63.3094(c)(1)(v);
 - vi. Cleaning of spray booth equipment pursuant to 40 CFR 63.3094(c)(1)(vi);
 - vii. Cleaning of external spray booth areas pursuant to 40 CFR 63.3094(c)(1)(vii);
 - viii. Additional housekeeping measures pursuant to 40 CFR 63.3094(c)(1)(viii).

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 63.3100(c), 40 CFR 63.4493(b) and (c))**

2. The work practice plan shall not become part of the facility's Renewable Operating Permit (ROP). Revisions to the work practice plan likewise do not represent revisions to the facility's ROP. Copies of the current work practice plan and any earlier plan developed within the past five years are required to be made available for inspection and copying by the AQD upon request.² **(40 CFR 63.3094)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee shall perform the applicable performance tests and compliance demonstrations in accordance with 40 CFR 63.3160, 40 CFR 63.3163-3164, 40 CFR 63.3170-3171, and 40 CFR 63.3173.² **(40 CFR, Part 63, Subpart IIII)**

2. The permittee may rely upon the results of transfer efficiency tests that have been previously conducted upon written approval from the AQD District Supervisor. Any such previous tests must meet the criteria identified in 40 CFR 63.3160(c)(1) through (3).² **(40 CFR 63.3160)**
3. The permittee shall determine the mass fraction of each organic HAP for each material used according to the procedures established under 40 CFR 63.3151(a)(1) through (5). The permittee may use USEPA Method ALT-017 as an alternative for any material used, after demonstrating that its use as an alternative test methodology for that material, has been approved by the USEPA pursuant to the requirements of 40 CFR 63.3151(a)(3) and 40 CFR 63.7.² **(40 CFR 63.7, 40 CFR 63.3151)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall compile all required records and complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the end of the calendar month following each compliance period unless otherwise specified in any monitoring/recordkeeping condition. **(R 336.1213(3))**
2. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131.² **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**
3. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
 - a. A copy of each notification and report that is submitted to comply with 40 CFR, Part 63, Subpart IIII and the documentation supporting each notification and report.² **(40 CFR 63.3130(a))**
 - b. A current copy of information provided by materials suppliers or manufactures, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating.² **(40 CFR 63.3130(b))**
 - c. For each coating or thinner used in FG-MACT or FG-MACT WITH EU-ECOAT, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids.² **(40 CFR 63.3130(c))**
 - d. For each material used in EU-SEALERS, the mass used in each month and the mass organic HAP content.² **(40 CFR 63.3130(c))**
 - e. Calculations of the organic HAP emission rate for FG-MACT or FG-MACT WITH EU-ECOAT in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat system. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained.² **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**
 - f. Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EU-SEALERS.² **(40 CFR 63.3130(c), 40 CFR 63.3152)**
 - g. The name, volume, mass fraction organic HAP content and density of each cleaning material used.² **(40 CFR 63.3130(d) - (f))**

See Appendix 7

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 all semiannual compliance reports as required by 40 CFR 63.3120(a). These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30.² **(40 CFR 63.3120(a))**
5. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110.² **(40 CFR, Part 63, Subparts A and IIII)**

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, Subpart A and Subpart IIII for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date as they apply to FG-MACT. The permittee may choose an alternative compliance method not listed in FG-MACT by providing the appropriate notifications required under 40 CFR 63.9(j), maintaining a log required by 40 CFR Part 70.6(9), and by complying with all applicable provisions required by Subpart IIII for the compliance option chosen.² **(40 CFR 70.6(a)(9), 40 CFR 63.9(j), 40 CFR Part 63, Subparts A and IIII)**

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).

**FG-FACILITY
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group covers equipment used for automotive assembly and painting operations for the Orion Assembly Plant.

Emission Units: All emission units and flexible groups associated with the automotive assembly and painting operations.

POLLUTION CONTROL EQUIPMENT

A single regenerative thermal oxidizer used for control of VOC emissions from the clearcoat paint spray booths, the electrodeposition tank, the flash-off areas, and the curing ovens.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	748.5 tpy ²	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1225 R 336.1702(a)
2. VOC ^a	4.6 pounds per job ²	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1225 R 336.1702(a)
3. PM-10*	20.3 tpy ²	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205 R 336.2803 R 336.2804 40 CFR 52.21(c) & (d)
4. NOx	40.0 tpy ²	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205 R 336.2803 R 336.2804 40 CFR 52.21(c) & (d)

^a In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined VOC emission limit shall be considered compliance with the VOC emission limit established by **R 336.1225, and R 336.1702(a)** and also compliance with the VOC emissions limit in **40 CFR 60.392(b)**, an additional applicable requirement that has been subsumed within this condition.

*This includes PM-10 from all-natural gas combustion in the painting operations (including the thermal oxidizer) and the assembly operations, the EU-COAT scuff booth, the paint spray booth portions of EU-THREE WET, and EU-FINAL REPAIR. This limit does not include the facility's boilers, or the five-landfill gas fired reciprocating internal combustion engines driving electric generators (FG-Engines), which are covered under another EU or FG of this ROP or PTI 86-13.

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	800 MM cubic feet per year* ²	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY	SC VI.1	R 336.1205(1)(a)

*Total natural gas usage for the painting operations (including the thermal oxidizer) and the assembly operations combined.

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each spray coating booth and scuff booth operation with one of the following: water wash particulate controls, dry filter particulate controls, or equivalent particulate control technology.² **(R 336.1301, R 336.1331, 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. At least once every five years, unless the permittee maintains a yearly demonstration that the most recent acceptable performance test remains valid and representative, the permittee shall verify the transfer efficiency of one representative Basecoat Prime booth, one representative Basecoat booth, and one representative Clearcoat booth, capture efficiency across EU-THREE WET and the curing oven portion of EU-SEALERS, and the destruction efficiency of the regenerative thermal oxidizer, by in-plant testing at owner's expense, in accordance with Department requirements, 40 CFR 51 Appendix M, and the USEPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended will be required. No less than 60 days prior to testing, a complete testing plan shall be submitted to the AQD District Supervisor. This testing plan must be approved by the Department prior to testing. A complete report of test results must be submitted to the District Supervisor within 60 days following the testing.² **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004)**
2. At least once every five years, unless the permittee maintains a yearly demonstration that the most recent acceptable performance test remains valid and representative, the permittee shall verify PM-10 emission rates from the Basecoat Prime and Basecoat-portions EU-THREE WET, and a single representative paint spray booth portion of EU-FINAL REPAIR by testing at owner's expense, in accordance with Department requirements. 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 336.1301, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the

publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations", EPA-453/R-08-002, or as amended. (The EPA Protocol)

- a. For each material used in FG-FACILITY:
 - i. Material identification;
 - ii. Material VOC content; and,
 - iii. Material usage.
- b. Number of jobs each calendar month, where a job is defined as a painted vehicle leaving the assembly line.
- c. Calculations showing the FG-FACILITY monthly and annual mass VOC emission rates, in tons per month and tons per 12-month rolling time period, as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used. Calculations must also include a sample calculation based on the production of a single job and that specifies all measured or assumed process parameters (e.g., transfer, capture and control efficiencies, booth splits, etc.) and VOC emissions due to natural gas combustion. Prior to the initial testing, for each controlled section, the design combined capture and control efficiency may be used. Thereafter, values no greater than the most recently tested values, may be used.
- d. Calculations showing the VOC emission rate (lb/job) on a 12-month rolling basis, as determined at the end of each calendar month for the equipment covered by FG-FACILITY.
- e. Calculations showing the PM-10 mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FG-FACILITY after the testing required in SC V.1, is completed to develop PM-10 emission factors.
- f. Records of the total natural gas used in FG-FACILITY during each calendar month and 12-month rolling time period, in cubic feet.
- g. Calculations showing the NO_x mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FG-FACILITY.
- h. Hours of operation for each calendar month and 12-month rolling time period.

All records/calculations shall be kept on file and made available to the Department upon request.^{2,a}
(R 336.1213(3), R 336.1225, R 336.1702(a))

2. The permittee shall monitor the condition of each particulate control system through weekly visual inspections of each basecoat and clearcoat spray booth and monthly visual inspections of each final repair spray booth. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request.² **(R 336.1301, R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
3. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance with any of the emission limits in FG-FACILITY, SC I.1, 2, 3, and 4 depends.² **(R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

^a In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined recordkeeping requirement shall be considered compliance with the recordkeeping requirements established by **R 336.1213(3), R 336.1225 and R 336.1702(a)** and also compliance with the recordkeeping requirement found in **40 CFR 60.393 and 40 CFR Part 60, Subpart MM**, an additional applicable requirement that has been subsumed within this condition.

See Appendices 4 and 7

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.^a **(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.^a **R 336.1213(4)(c))**
4. The permittee shall notify the AQD District Supervisor, in writing, of projects authorized by SC IX.3 and 4 at least 30 days prior to initialization of the activity. The notification shall include, at a minimum, a description of the type of project and any changes in testing, monitoring, recordkeeping or other compliance evaluation activities.² **(R 336.1201)**
^a In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined reporting requirement shall be considered compliance with the reporting requirements established by **R 336.1225, R 336.1702(a)** and **40 CFR 52.21** and also compliance with the reporting requirement found in **40 CFR 60.395(b)/40 CFR Part 60, Subpart MM**, an additional applicable requirement that has been subsumed within this condition.

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. This permit covers automotive assembly and painting operations for the Orion Assembly Plant. Changes to these operations or replacement with a different process type are subject to the requirements of R 336.1201, except as disallowed by R 336.1278 or as allowed by R 336.1279 through R 336.1290 or SC IX.3 or 4.² **(R 336.1201)**
2. The Department has determined that compliance with the limits listed in SC I.1 and 2 provide a level of control that is at least equivalent to and not less stringent than the standards in R 336.1610. Accordingly, compliance with the limitations in this permit meets all applicable requirements of R 336.1610.² **(R 336.1610)**
3. This permit authorizes any activities including projects involving physical changes or changes in the method of operation to existing emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1, 2, 3, and 4. As a state only enforceable requirement, the changes to the emission unit(s) shall not result in a meaningful change in the nature or quantity of toxic air contaminants emitted from the stationary source. The permittee shall keep on file a demonstration, consistent with AQD Policy and Procedure number AQD-025, or according to the method outlined in SC IX.4. Such activities do not require the facility to obtain any federal or state air permits.² **(R 336.1201)**
4. This permit authorizes projects involving the installation of new emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1, 2, 3, and 4 under the following conditions:
 - a. As a state-only enforceable requirement, the new emission unit will not result in an exceedance of any air toxics standards found in Rule 336.1226 or Rule 336.1227. The permittee shall keep on file, a copy of all demonstrations that the air toxics impact from the new emission unit(s) will comply with the levels specified in Rule 336.1226 or Rule 336.1227. The permittee may devise its own method to perform this demonstration subject to approval by the department.
 - b. The new emissions unit will not be a newly constructed or reconstructed major source of hazardous air pollutants as defined in and subject to 40 C.F.R. §63.2 and §63.5(b)(3), National Emission Standard for Hazardous Air Pollutants; and,
 - c. The installation of the new emissions unit will not cause the violation of any applicable air requirement.

A demonstration that the new installation meets these criteria shall be kept on site for the life of the new emission unit and made available to the Department upon request. The permittee must notify the Department of the

installation of the new emission unit. This notification must contain the information specified in R 336.1215(3)(c)(i) through (v). Construction of the new emission unit may commence upon submittal of the notice.² **(R 336.1201)**

5. The emission limits and performance levels specified in SC I.1, 2, 3, and 4 may be reviewed and/or adjusted when newly applicable federal requirements or any other requirement that is enforceable as a practical matter and that the Department, under its State Implementation Plan, may impose on the facility become applicable during the term of the permit that would lower allowable emissions. Adjustments to SC I.1, 2, 3, and 4 will be made through a permit revision as of the effective date of the new applicable requirements and will reflect the impact the new applicable requirements will have on the affected emission units. Initial compliance with the adjusted emission limits and performance levels will be demonstrated over the initial compliance period granted by the newly applicable federal requirement.² **(R 336.1225, R 336.1702(a))**
6. The permittee may, at any time, request that the Department terminate the flexible emission limit provisions of this permit and issue a traditional permit. In the event of such termination, the requirements of this permit shall remain in effect until a new permit is issued. At that time, the permit conditions for any existing emission unit that has not been modified and to which new requirements have not become applicable will revert to those found in the previous permits. For any new or modified emission unit, or any emission unit for which new requirements have become applicable the permit conditions will reflect requirements contemporaneous with the date of installation, modification, or new requirement applicability.² **(R 336.1702(a), R 336.1225)**

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).

**FG-MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Existing CI Engines located at a Major Source < 500 HP, Emergency

Emission Units: EU-EMERGENCY ENGINE 1, EU-EMERGENCY ENGINE 2, EU-EMERGENCY ENGINE 3, EU-EMERGENCY ENGINE 4, EU-FIRE PUMP PH

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The emergency CI engine/s shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 40 CFR 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63 Subpart ZZZZ Table 2c:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.2.
 - b. Inspect the air cleaner 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.

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

2. 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 to this subpart. **(40 CFR 63.6625(i))**
3. The permittee shall install, maintain and operate 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))**
4. 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 40 CFR Part 63 subpart ZZZZ. **(40 CFR 66.6625(h))**

5. The permittee shall not allow the engine(s) to exceed 100 hours for maintenance checks and readiness testing and emergency demand response. 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 year. **(40 CFR 63.6640(f)(2)(i))**
6. The permittee may operate the engines up to 50 hours per year for non-emergency situations, but those hours are to be counted towards the 100 hrs/year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(3). **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install a non-resettable hour meter on each engine. **(40 CFR 63.6625 (f))**

V. TESTING/SAMPLING

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

1. 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 two 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 two 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 each CI engine/s the permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**
2. For each CI engine/s the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(5), 40 CFR 63.6660)**
3. For each CI engine/s the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.3. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660)**
4. For each CI engine/s the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**
5. For each CI engine/s the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency

situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(f), 40 CFR 63.6660)**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

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-General Provisions and ZZZZ-National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. **(R 336.1213, 40 CFR Part 63, Subparts A and ZZZZ)**

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).

**FG-MACT ZZZZ – EXISTING EMERGENCY CI > 500 HP
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Existing CI Engines located at a Major Source > 500 HP, Emergency

Emission Units: EU-EMERGENCY ENGINE 5

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not allow the engine(s) to exceed 100 hours for maintenance checks and readiness testing and emergency demand response. 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 year. **(40 CFR 63.6640(f)(2)(i))**
2. The permittee may operate the engines up to 50 hours per year for non-emergency situations, but those hours are to be counted towards the 100 hrs/year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(3). **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

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. For each CI engine/s the permittee shall keep in a satisfactory manner, records of hours of operation. 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. **(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 RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

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-General Provisions and ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. **(R 336.1213, 40 CFR Part 63, Subparts A and ZZZZ)**

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).

**FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group includes new emergency spark ignition (SI) natural gas fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR 60, Subpart JJJJ.

Emission Units: EU-EMERGENCY ENGINE NATURAL GAS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	2.0 g/hp-hr or 160 ppmvd @15% O ²	Hourly	EU-EMERGENCY ENGINE NATURAL GAS	SC V.1 SC VI.4	40 CFR 60.4233(e) Table 1
2. CO	4.0 g/hp-hr or 540 ppmvd @15% O ²	Hourly	EU-EMERGENCY ENGINE NATURAL GAS	SC V.1 SC VI.4	40 CFR 60.4233(e) Table 1
3. VOC	1.0 g/hp-hr or 86 ppmvd @15% O ²	Hourly	EU-EMERGENCY ENGINE NATURAL GAS	SC V.1 SC VI.4	40 CFR 60.4233(e) Table 1

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee may operate EU-EMERGENCY ENGINE NATURAL GAS 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, or the insurance company associated with the engine. 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 year. EU-EMERGENCY ENGINE NATURAL GAS may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d))**
- The permittee shall operate and maintain EU-EMERGENCY ENGINE NATURAL GAS such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**

3. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for EU-EMERGENCY ENGINE NATURAL GAS:
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
 - b. Keep a maintenance plan and the permittee may only change those engine settings that are permitted by the manufacturer. If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4243(b)(1))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. EU-EMERGENCY ENGINE NATURAL GAS shall be equipped with a non-resettable hour meter. **(R 336.1213(3), 40 CFR 60.4237 (b))**
2. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. **(40 CFR 60.4243(g))**

V. TESTING/SAMPLING

1. The permittee shall conduct an initial performance test for EU-EMERGENCY ENGINE NATURAL GAS within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4233(e), unless the engines have been certified by the manufacturer as required by 40 CFR Part 60, Subpart JJJJ and the permittee maintains the engine as required by 40 CFR 60.4243(b)(1). If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(40 CFR 60.4243, 40 CFR 60.4244, 40 CFR Part 60, Subpart JJJJ)**

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 hours of operation for EU-EMERGENCY ENGINE NATURAL GAS through a 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 operation. **(40 CFR 60.4245(b))**
2. The permittee shall keep records of all notifications submitted to comply with this subpart and all documentation supporting any notification. **(40 CFR 60.4245(a)(1))**
3. The permittee shall keep records of maintenance conducted to demonstrate compliance. **(40 CFR 60.4243(a)(2), 60.4245(2))**
4. The permittee shall keep records of documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054 and 1060, as applicable. **(40 CFR 60.4245(a)(3))**
5. If EU-EMERGENCY ENGINE NATURAL GAS is not a certified engine or a certified engine is operating in a non-certified manner and subject to 60.4243(a)(2), documentation that the engine meets the emission standards. **(40 CFR 60.4245(a)(4))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the New Source Performance Standards, as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to each affected emergency engine. **(40 CFR Part 60, Subparts A and JJJJ)**

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).

**FG-NSPS IIII FIRE PUMP > 100 HP BUT < 500 HP
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group includes new emergency compression ignition (CI) diesel fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR Part 60, Subpart IIII.

Emission Units: EU-NEWFIREPUMPA48 (175 HP)

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC + NOx	3.0 g/hp-hr	Hourly	EU-NEWFIREPUMPA48	SC V.1	40 CFR 60.4205(c) Table 4
2. PM	0.15 g/hp-hr	Hourly	EU-NEWFIREPUMPA48	SC V.1	40 CFR 60.4205(c) Table 4

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in EU-NEWFIREPUMPA48 with the maximum sulfur content of 15 ppm (0.0015 percent) by weight. **(40 CFR 60.4207, 40 CFR 80.510(b), R 336.1205(1)(a)&(3), and R 336.1402(1))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee may operate EU-NEWFIREPUMPA48 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, or the insurance company associated with the engine. 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 year. EU-NEWFIREPUMPA48 may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f))**
2. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart IIII, for the same model year, the permittee shall meet the following requirements for EU-NEWFIREPUMPA48.
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
 - b. Change only those emission related settings that are permitted by the manufacturer, and
 - c. Meet the requirements as specified in 40 CFR 89, 94, and/or 1068, as it applies to you.

If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4211(a))**

3. The permittee shall install, maintain, and operate EU-NEWFIREPUMPA48 to meet the emission standards as required by SC I.1 – I.2, over the entire life of the engine. **(40 CFR 60.4206)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. EU-NEWFIREPUMPA48 shall be equipped with a non-resettable hour meter. **(40 CFR 60.4209)**

V. TESTING/SAMPLING

1. The permittee shall conduct an initial performance test for EU-NEWFIREPUMPA48 within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4205 (c), unless the engines have been certified by the manufacturer as required by 40 CFR Part 60 Subpart IIII and the permittee maintains the engine as required by 40 CFR 60.4211. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(40 CFR 60.4205(c), 40 CFR 60.4211(g), 40 CFR 60.4212, 40 CFR Part 60 Subpart IIII)**

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 hours of operation for EU-NEWFIREPUMPA48 through a 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 operation. **(40 CFR 60.4211)**
2. The permittee shall keep, in a satisfactory manner, diesel fuel records, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510(b). The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4207, 40 CFR 80.510(b), & R336.1402)**
3. The permittee shall keep, in a satisfactory manner, records of testing required in SC V. or manufacturer certification documentation indicating that each engine meets the applicable emission limitations contained in the 40 CFR Part 60 Subpart IIII. If any engine becomes uncertified, then the permittee must also keep records of a maintenance plan & maintenance activities. The permittee shall keep all records on the file & make them available to the Department upon request. **(40 CFR 60.4211(g))**

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 RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the New Source Performance Standards, as specified in 40 CFR Part 60, Subpart A and Subpart IIII, as they apply to each affected emergency engine. **(40 CFR Part 60, Subparts A and IIII)**

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).

**FG-BOILERS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group has two powerhouse boilers consisting of one 82 million BTU per hour (24.01 megawatts (MW)) heat input dual natural gas fuel fired boiler (Boiler 1), and one 248 million BTU per hour (72.62 MW) heat input natural gas (NG) and landfill gas (LFG) fired boiler (Boiler 2).

Emission Units: EU-BOILER 1, EU-BOILER 2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.03 pound per million BTU heat input (12.9 nanograms per joule) ²	Instantaneous	FG - Boilers	SC V.1	R 336.1331(1)(c)
2. SO ₂	1.6 pounds per million BTU (688 nanograms per joule) heat input ²	24-hour averaging period.	FG – Boilers	SC V.1 SC VI.6	R 336.1201(3)
3. NO _x	0.60 pound per million BTU (258 nanograms per joule) heat input ²	24-hour averaging period.	FG – Boilers	SC V.1 SC VI.6	R 336.1201(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not burn coal or a solid fuel in FG-BOILERS.² **(R 336.1201)**
2. The permittee shall not burn fuel oil in Boilers.² **(R 336.1201)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. At least once every five years, unless the most recent acceptable test remains valid and representative, the permittee shall verify the Lb NO_x/MMBTU heat input emission rate for natural gas; the Lb SO₂/MMBTU heat input emission rate for natural gas; and the PM Lb/MMBTU heat input emission rate for natural gas; for FG-BOILERS, by testing at owner's expense, in accordance with Department requirements. No less than 30 days

prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission limits 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 336.1213 and R 336.2001)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. A record of compliance emission testing of the boilers. (R 336.1213(3))
2. A record of the quantity of fuel (natural gas, landfill gas) used daily and monthly (standard cubic feet of natural gas and landfill gas). Fuel usage for each boiler and combined fuel usage for all boilers shall be reported on a 12-month rolling time period basis. (R 336.1213(3))
3. Nitrogen oxides and sulfur dioxide emissions: Calculate and record emission rates in pounds per million BTU heat input (averaged over each 24-hour 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))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV001	120.0 ²	250 ²	R 336.1201(3)

IX. OTHER REQUIREMENT(S)

NA

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).

**FG-BOILER MACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Major Source Boiler MACT, Boiler/Process Heater, Existing Gas 1 Fuel Subcategory requirements per 40 CFR Part 63, Subpart DDDDD.

Emission Unit:

Less than 5 MMBtu/hr	N/A
Equal to or greater than 5 MMBTU/hr and less than 10 MMBTU/hr	EU-Lochinvar Boiler East, EU-Lochinvar Boiler West
Equal to or greater than 10 MMBTU/hr	EU-BOILER 1 (82 MMBTU per hour natural gas fired), EU-BOILER 2 (248 million BTU per hour natural gas and/or landfill gas fired)

POLLUTION CONTROL EQUIPMENT

Continuous Oxygen Trim System for EU-BOILER 1 and EU-BOILER 2.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn fuels as allowed in the Unit designed to burn gas 1 subcategory definition in 40 CFR 63.7575. **(40 CFR 63.7499(I))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall conduct the initial tune-up of the Boilers 1 and 2 no later than January 31, 2016, and every five years (no more than 61 months after the previous tune-up) thereafter to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i) through (a)(10)(vi). **(40 CFR 63.7510(e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(12))**
2. The permittee, at all times, must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. 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 records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(a))**
 - a. A copy of each notification and report that you submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.7555(a)(1))**
 - b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.7555(a)(2))**
2. The permittee must maintain monthly records (or at the frequency required by 40 CFR 63.7540(c), of the calculations and results of the fuel specification for mercury in **Table 6** of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7555(g))**

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 a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The notification shall contain the information specified in paragraphs 40 CFR 63.7545(e)(1) and (8) as shown below. **(40 CFR 63.7545(e))**
 - a. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration. **(40 CFR 63.7545(e)(1))**
 - b. In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
 - i. "This facility complies with the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)." **(40 CFR 63.7545(e)(8)(i))**
 - ii. "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)." **(40 CFR 63.7545(e)(8)(ii))**
 - iii. Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit." **(40 CFR 63.7545(e)(8)(iii))**
5. For units that are subject only to a requirement to conduct a five-year tune-up according to 63.7542(a)(12), the permittee may submit only a five-year compliance report, as specified in 40 CFR 63.7550(b)(1) through(4) instead of a semi-annual compliance report.
 - a. The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, and ending on July 31 or January 31, whichever date is the first date that occurs at least five years, if submitting a five-year compliance report after the compliance date that is specified for the source in 40 CFR 63.7495. **(40 CFR 63.7550(b)(1))**

- b. The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495. The first five-year compliance report must be postmarked or submitted no later than January 31. **(40 CFR 63.7550(b)(2), (40 CFR 63.10(a)(5))**
 - c. Each subsequent five-year compliance report must cover the applicable five-year period from January 1 through December 31. **(40 CFR 63.7550(b)(3))**
 - d. Each subsequent five-year compliance report must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), (40 CFR 63.10(a)(5))**
6. For units that are subject only to a requirement to conduct a five-year tune-up according to 40 CFR 63.7540(a)(12), the permittee must submit a five-year compliance report containing the information specified in 40 CFR 63.7550(c)(1). **(40 CFR 63.7550(c)(1))**
7. The permittee must submit the reports according to the procedures specified in paragraphs (h)(1) through (3) of 40 CFR 63.7550, as applicable. **(40 CFR 63.7550(h))**
- a. The permittee must submit all reports required by Table 9 of 40 CFR Part 63, Subpart DDDDD electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to 40 CFR Part 63, Subpart DDDDD is not available in CEDRI at the time that the report is due the report the permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. At the discretion of the Administrator, the permittee must also submit these reports, to the Administrator in the format specified by the Administrator. **(40 CFR 63.7550(h)(3))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
NA	NA	NA	NA

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all applicable provisions of 40 CFR Subpart DDDDD. **(40 CFR Subpart DDDDD)**

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).

**FGENGINES
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Five landfill gas fired reciprocating internal combustion engines driving electric generators.

Emission Units: EUENGINE1, EUENGINE2, EUENGINE3, EUENGINE4, EUENGINE5

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	1.0 g/hp-hr ²	Hourly	Each Engine in FGENGINES	SC V.2	40 CFR Part 60, Subpart JJJJ
2. VOC	2.8 lb/hr ²	Hourly	Each Engine in FGENGINES	SC V.1	R 336.1205(1)(a) R 336.1702 R 336.2801(ee)
3. NOx	2.0 g/hp-hr ²	Hourly	Each Engine in FGENGINES	SC V.2	40 CFR Part 60, Subpart JJJJ
4. NOx	2.97 lb/hr ²	Hourly	Each Engine in FGENGINES	SC V.1	R 336.1205(1)(a) R 336.2801(ee) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d)
5. CO	3.5 g/hp-hr ²	Hourly	Each Engine in FGENGINES	SC V.1 SC V.2	R 336.2810(2) 40 CFR Part 60, Subpart JJJJ
6. CO	17.3 lb/hr ²	Hourly	Each Engine in FGENGINES	SC V.1	R 336.2804 40 CFR 52.21(d)
7. PM10	0.64 lb/hr ²	Hourly	Each Engine in FGENGINES	SC V.1	R 336.1205(1)(a) R 336.2801(ee) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d)
8. PM2.5	0.64 lb/hr ²	Hourly	Each Engine in FGENGINES	SC V.1	R 336.1205(1)(a) R 336.2801(ee) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d) 40 CFR 52.21(b)(3)(i)
9. Formaldehyde	2.1 lb/hr ¹	Hourly	Each Engine in FGENGINES	SC V.3	R 336.1225(1) & (2)
10. SO ₂	35.9 tpy ²	12-month rolling time period as determined at the end of each calendar month	FGENGINES (All five engines combined)	SC V.4 SC VI.3 SC VI.4	R 336.1205(1)(a) & (3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only burn landfill gas in FGENGINES.¹ **(R 336.1225)**
2. The permittee shall not operate FGENGINES unless the malfunction abatement/preventative maintenance plan, or an alternate plan approved by the AQD District Supervisor, is implemented and maintained. If the AQD does not notify the permittee within 60 days of submittal, the malfunction abatement/preventative maintenance plan shall be considered approved. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. At a minimum the plan shall include:
 - a. Identification of the equipment and, if applicable, air-cleaning device, and the supervisory personnel responsible for overseeing the inspection, maintenance, and repair.
 - b. Description of the items or conditions to be inspected and frequency of the inspections or repairs.
 - c. Identification of the equipment and, if applicable, air-cleaning device, operating parameters that shall be monitored to detect a malfunction or failure, the normal operating range of these parameters and a description of the method of monitoring or surveillance procedures.
 - d. Identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - e. A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If the plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the plan within 45 days after such an event occurs and submit the revised plan for approval to the AQD District Supervisor. Should the AQD determine the malfunction abatement/preventative maintenance plan to be inadequate, the AQD District Supervisor may request modification of the plan to address those inadequacies. If the AQD does not notify the permittee within 60 days of submittal, the revised plan shall be considered approved. Until a revised 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, R 336.1912, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 60.4243(b)(2))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGENGINES unless the following are installed, maintained, and operated in a satisfactory manner²: **(R 336.1702(a), R 336.2810(2))**
 - a. Lean burn technology
 - b. Air to fuel ratio controller
2. The design capacity of each engine in FGENGINES shall not exceed 2,242 BHP, as specified by the equipment manufacturer.² **(R 336.1205(1)(a) & (b), 40 CFR Part 60, Subpart JJJJ)**

V. TESTING/SAMPLING

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

1. At least once every five years or more frequently upon the request of the AQD District Supervisor consistent with the provisions of Rule 336.2001, the permittee shall verify and quantify VOC, NO_x, CO, PM₁₀ and PM_{2.5} emission factors from any one of the five identical engines in FGENGINES by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to any 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 factors includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test, as required by SC VII.4.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810(2), 40 CFR 52.21(j), 40 CFR 52.21(c) & (d))**

2. The permittee shall conduct a performance test every 8760 hours of operation or three years, whichever occurs first for each engine in FGENGINES, to demonstrate compliance to NO_x, CO, and VOC emission rates. The performance tests shall be conducted according to 40 CFR 60.4244. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD Technical Programs Unit and District Office. The final plan must be approved by the AQD prior to testing. Verification of emission rates 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, as required by SC VII.4.² **(40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR Part 60, Subpart JJJJ)**
3. At least once every five years, unless otherwise demonstrated by the permittee and approved by the AQD District Supervisor that testing every five years or more frequently is not required, the permittee shall verify and quantify formaldehyde emission factors from any one of the five identical engines in FGENGINES by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to any 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 factors includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test, as required by SC VII.4.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004)**
4. The permittee shall verify the hydrogen sulfide (H₂S) or total reduced sulfur (TRS) content of the landfill gas burned in FGENGINES weekly by gas sampling (e.g., Draeger Tubes, Tedlar Sampling Bags, etc.) for 12 weeks and semi-annually by gas sampling using an EPA approved method or equivalent method approved by AQD and laboratory analysis, at the owner's expense, in accordance with Department requirements. Once the weekly sampling results remain less than 400 ppmvd for the 12-week period, the permittee may reduce to monthly monitoring and recordkeeping of the H₂S (TRS) concentration. Sampling is not required if FGENGINES are not operating. Once FGENGINES operation resumes, the permittee shall reconvene monthly sampling within 10 days. If the monthly H₂S (TRS equivalent) concentration exceeds 400 ppmvd, the permittee shall resume weekly sampling and recordkeeping until 12 weeks of the H₂S (TRS equivalent) concentration is less than 400 ppmvd. Sampling is not required if FGENGINES are not operating. Once FGENGINES operation resumes during weekly sampling, the permittee shall reconvene weekly sampling within 3 days. If at any time, the H₂S (TRS equivalent) concentration of the landfill gas sample exceeds 400 ppmvd, the permittee shall sample and record the H₂S (TRS equivalent) concentration of the landfill gas burned on a daily basis. Once the H₂S (TRS equivalent) concentration of the landfill gas determined from the daily samples are maintained below 400 ppmvd, for one week after an exceedance, the permittee may resume weekly monitoring and recordkeeping for 12 weeks as previously described. No less than 30 days prior to the initial test for each type of gas sampling, the permittee shall submit a complete test plan to the AQD District Office. The AQD must approve the final plan prior to the first test for each type of gas sampling. Thereafter, the permittee shall submit a test plan upon the request of the AQD District Supervisor or if any changes are made to the approved testing protocol. The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, records of all maintenance activities conducted according to the malfunction abatement/preventative maintenance plan (pursuant to SC III.2). The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1702(a), R 336.1911, R 336.1912, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
2. The permittee shall keep records of the following information for each engine in FGENGINES:²
 - a. All notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification. **(40 CFR 60.4245(a)(1))**
 - b. Maintenance conducted on each engine. **(40 CFR 60.4245(a)(2))**
 - c. If the engines in FGENGINES are a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable. **(40 CFR 60.4245(a)(3))**

- d. If any engine in FGENGINES is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine(s) meets the emission standards. **(40 CFR 60.4245(a)(4))**
- 3. The permittee shall calculate and record the monthly and 12-month rolling SO₂ emissions from FGENGINES as specified in Appendix 7, or other method as approved by the AQD District Supervisor. The calculations shall utilize the actual gas usage, actual hours of operation, and the sulfur concentration from the most recent gas sampling data unless otherwise requested by the AQD. All records shall be kept on file at the facility and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3))**
- 4. The permittee shall record all sampling data collected for the H₂S (TRS equivalent) concentration for FGENGINES in the landfill gas. All records shall be kept on file at the facility and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3), R 336.1225)**

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 a complete report of the stack test results to the AQD District Supervisor in an acceptable format within 60 days after the performance test has been completed.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810(2), 40 CFR 52.21(j), 40 CFR 52.21(c) & (d))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV001	120 ²	250 ²	R 336.1225 R 336.2803 R 336.2804 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to each engine in FGENGINES.² **(40 CFR Part 60, Subpart A and JJJJ)**

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).

FGRICEMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

New and Reconstructed Engines located at a Major Source > 500 HP, Non-emergency firing Landfill/Digester Gas. Commenced Construction or Reconstruction on or after December 19, 2002. Compliance date is upon start-up.

Emission Units: EUENGINE1, EUENGINE2, EUENGINE3, EUENGINE4, EUENGINE5

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Each engine in FGRICEMACT shall operate in a manner which reasonably minimizes HAP emissions.² **(40 CFR 63.6625(c))**
2. Each engine in FGRICEMACT shall operate in a manner which minimizes time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of each engine, not to exceed 30 minutes.² **(40 CFR 63.6625(h))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The engines in FGRICEMACT shall equip and maintain separate fuel meters to monitor and record the daily fuel usage and volumetric flow rate of each fuel used.² **(40 CFR 63.6625(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 the engines in FGRICEMACT which fire landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, the permittee shall monitor and record the daily fuel usage with separate fuel meters to measure the volumetric flow rate of each fuel.² **(40 CFR 63.6625(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 shall submit an annual report in accordance with Table 7 of 40 CFR Part 63, Subpart ZZZZ to the appropriate AQD district office by January 31st for the reporting period from January 1 to December 31. The following information shall be included in this annual report:² **(40 CFR 63.6650(g), 40 CFR 63.6650(b)(5))**
 - a. The fuel flow rate and the heating values that were used in the permittee's calculations to determine the gross heat input on an annual basis. Also, the permittee must demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis. **(40 CFR 63.6650(g)(1))**
 - b. The operating limits provided in the permittee's federally enforceable permit, and any deviations from these limits. **(40 CFR 63.6650(g)(2))**
 - c. Any problems or errors suspected from the fuel flow rate meters. **(40 CFR 63.6650(g)(3))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, as they apply to each engine in FGRICEMACT.² **(40 CFR Part 63, Subparts A and ZZZZ)**

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: Abbreviations and Acronyms

The following is an alphabetical listing of abbreviations/acronyms that may be used in this permit.

AQD	Air Quality Division	MM	Million
acfm	Actual cubic feet per minute	MSDS	Material Safety Data Sheet
BACT	Best Available Control Technology	MW	Megawatts
BTU	British Thermal Unit	NA	Not Applicable
°C	Degrees Celsius	NAAQS	National Ambient Air Quality Standards
CAA	Federal Clean Air Act	NESHAP	National Emission Standard for Hazardous Air Pollutants
CAM	Compliance Assurance Monitoring	NMOC	Non-methane Organic Compounds
CEM	Continuous Emission Monitoring	NOx	Oxides of Nitrogen
CFR	Code of Federal Regulations	NSPS	New Source Performance Standards
CO	Carbon Monoxide	NSR	New Source Review
COM	Continuous Opacity Monitoring	PM	Particulate Matter
department	Michigan Environment, Great Lakes, and Energy	PM-10	Particulate Matter less than 10 microns in diameter
dscf	Dry standard cubic foot	pph	Pound per hour
dscm	Dry standard cubic meter	ppm	Parts per million
EPA	United States Environmental Protection Agency	ppmv	Parts per million by volume
EU	Emission Unit	ppmw	Parts per million by weight
°F	Degrees Fahrenheit	PS	Performance Specification
FG	Flexible Group	PSD	Prevention of Significant Deterioration
GACS	Gallon of Applied Coating Solids	psia	Pounds per square inch absolute
gr	Grains	psig	Pounds per square inch gauge
HAP	Hazardous Air Pollutant	PeTE	Permanent Total Enclosure
Hg	Mercury	PTI	Permit to Install
hr	Hour	RACT	Reasonable Available Control Technology
HP	Horsepower	ROP	Renewable Operating Permit
H ₂ S	Hydrogen Sulfide	SC	Special Condition
HVLP	High Volume Low Pressure *	scf	Standard cubic feet
ID	Identification (Number)	sec	Seconds
IRSL	Initial Risk Screening Level	SCR	Selective Catalytic Reduction
ITSL	Initial Threshold Screening Level	SO ₂	Sulfur Dioxide
LAER	Lowest Achievable Emission Rate	SRN	State Registration Number
lb	Pound	TAC	Toxic Air Contaminant
m	Meter	Temp	Temperature
MACT	Maximum Achievable Control Technology	THC	Total Hydrocarbons
MAERS	Michigan Air Emissions Reporting System	tpy	Tons per year
MAP	Malfunction Abatement Plan	µg	Microgram
EGLE	Michigan Environment, Great Lakes, and Energy	VE	Visible Emissions
mg	Milligram	VOC	Volatile Organic Compounds
mm	Millimeter	yr	Year

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 pounds per square inch gauge (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

Specific monitoring requirement procedures, methods or specifications 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 4. Recordkeeping

The permittee shall use the following approved formats and procedures for the recordkeeping requirements. Alternative formats must be approved by the AQD District Supervisor.

The permittee shall use the EGLE Rule 290 Permit to Install Exemption Form (EQP 3558) to document monthly records as required by R 336.1290. Alternative formats must be approved by the AQD District Supervisor.

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in FG-RULE287(c). Alternative formats must be approved by the AQD District Supervisor.

Appendix 5. Testing Procedures

There are no specific testing requirement plans or procedures for this ROP. 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-B7227-2009. 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-B7227-2009b is being reissued as Source-Wide PTI No. MI-PTI-B7227-2020a.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
224-09A	201300049/ May 24, 2013	Incorporate PTI No. 224-09A.	EU-PRETREATMENT EU-COAT EU-SEALERS EU-SOUND DAMP EU-THREE WET EU-GLASS INSTALL EU-FINAL REPAIR EU-PURGE&CLEAN EU-VEHICLE FLUID FILL EU-NATURAL GAS FG-TANKS

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
			FG-CONTROLS FG-MACT FG-OLDFACILITY FG-FACILITY
224-09	201200115	Modification was amended and replaced by ROP revision application 20130049 above. PTI 224-09A replaced PTI 224-09.	Same as above.

The following ROP amendments or modifications were issued after the effective date of ROP No. MI-ROP-B7227-2015.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
86-13	201500118/ September 29, 2015	Incorporate PTI No. 86-13. PTI No. 86-13 is for 5 landfill (LF) gas fired engines. Additionally, this PTI requires that the two existing coal fired boilers to be shut down upon startup of the engines. The facility is an existing major stationary source and because of this, the applicant has included a netting exercise (as of August 15, 2013) for NOx, VOC, PM10 and PM2.5 to net out of PSD requirements. The project was subject to PSD review for CO because the five engines will emit CO in excess of 375 tpy, combined.	FGENGINES FGRICEMACT
NA	201600039/ March 15, 2016	Restoring a Condition that was inadvertently removed during the last ROP renewal.	FG-FACILITY
86-13A	201900114 / October 2, 2019	This Minor Modification was to incorporate PTI 86-13A, which was to add an SO2 emission limit and associated Conditions in FGENGINES. SO2 Calculations were added to the Emission Calculations in Appendix 7. PTI 86-13A was not required to go through the Public Participation process.	FGENGINES FGRICEMACT

The following table lists the ROP amendments or modifications issued after the effective date of ROP No. MI-ROP-B7227-2020.

Permit to Install Number	ROP Revision Application Number - Issuance Date	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
86-13B	202300092 / August 16, 2023	This Minor Modification was to incorporate PTI No. 86-13B, which was for an administrative change regarding the performance testing methods in FGENGINES and sampling for H2S. PTI No. 86-13B was not required to go through the Public Participation process. The changes in the PTI were administrative and did not trigger NSR or PSD review.	FGENGINES FGRICEMACT

Appendix 7. Emission Calculations

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements of this ROP.

1. The calculation procedure described in **Rule 336.2040**: Method for determination of volatile organic compound emissions from coating lines and graphic arts lines.
2. The calculation procedure described in **40 CFR Part 60, Subpart MM, 60.393**: Performance test and compliance provisions.
3. The calculation procedure described in **EPA Protocol 450/3-88-018**: Protocol for Determining the daily volatile organic compound emission rate of automobile and light duty truck topcoat operations.
4. Actual value of transfer efficiency (TE) verified by testing in conformance with EPA Protocol 450/3-88-018 shall be used in VOC emission calculations to show compliance with the limit of 14.9 pounds per gallon (1.785 kilograms per liter) of applied coating solids based upon the EPA Protocol. The parameters that affect TE are described in **Rule 336.2040 and EPA Protocol 450/3-88-018**
5. Actual overall destruction value verified by testing Booth / Oven split (oven loading) and destruction efficiency of an incinerator shall be used in VOC emission calculations. Overall destruction efficiency = (Fraction of VOC entering an incinerator from booth / oven split) multiplied by (Fraction of VOC destroyed by an incinerator from incinerator destruction efficiency). For example, if booth / oven split is 20 percent and incinerator destruction is 90 percent, overall control efficiency is 18 percent ($0.90 * 0.20 = 0.18$). All parameters that affect TE influence oven loading as well.
6. Tons per year = (current month's emissions) plus (sum of previous 11- month's emissions). This is to be determined at the end of each calendar month.
7. Pounds per hour = Monthly emissions in pounds divided by number of production hours per month. This is to be determined at the end of each calendar month.

SO₂ Emission Calculations

Calculation for SO₂ Emissions

The following calculation for SO₂ emissions in FGENGINES SC I.10 shall utilize the actual gas usage, and the sulfur concentration from the most recent laboratory test sample.

$$SO_2 = [(SCF) \times (ppmv_{sulfur} * 1E-06) \times (MW_{SO_2})] \div [(R \times T)] = \text{pounds/month}$$

Where:

SCF = Total Standard Cubic Feet of LFG Usage per Month in FGENGINES

ppmv_{sulfur} = parts per million by volume of Sulfur in the gas (based on the most recent test sample)

MW_{SO₂} = Molecular Weight of SO₂ = 64.066 lb/lb-mol

R = Universal Gas Constant = 0.7302 atm-ft³/lb-mol-R

T = Standard Temperature (absolute) = 519 R

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the 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 Groups.

Appendix 9. Elements of an O & M Plan

General – Keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for each respective add-on control device used to demonstrate compliance with applicable VOC emissions limits.

Regenerative Thermal Oxidizers

1. Validate for accuracy or recalibrate each temperature controlling thermocouple in the combustion chamber a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
2. Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.*
3. Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.*

* The requirement to address this issue is satisfied if a performance test (i.e., stack test) has been performed on the control device within the prior 18-month period.