

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

EFFECTIVE DATE: October 16, 2019

REVISION DATE: February 24, 2022

ISSUED TO

General Motors LLC – Warren Technical Center

State Registration Number (SRN): B4049

LOCATED AT

31295 Charles Kettering, Warren, Michigan 48092

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B4049-2019a

Expiration Date: October 16, 2024

Administratively Complete ROP Renewal Application
Due Between April 16, 2023 and April 16, 2024

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-B4049-2019a

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 Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

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

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

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

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

A. GENERAL CONDITIONS

Permit Enforceability

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

General Provisions

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

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

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).² **(R 336.1370)**
10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

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

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

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

Testing/Sampling

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

Monitoring/Recordkeeping

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

Certification & Reporting

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

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
 - a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; “based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete.” The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**
24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**
25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.² **(R 336.1912)**

Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
 - a. The applicable requirements are included and are specifically identified in the ROP.
 - b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

27. Nothing in this ROP shall alter or affect any of the following:
 - a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
 - b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

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

Revisions

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

Reopenings

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

Renewals

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

Stratospheric Ozone Protection

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

Risk Management Plan

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

Emission Trading

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

Permit to Install (PTI)

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

Footnotes:

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

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

B. SOURCE-WIDE CONDITIONS

At the time of the ROP issuance, the AQD has determined that there are no additional specific source-wide applicable requirements which apply to all emissions unit/process groups at this stationary source. Therefore, the permittee is subject to the General Requirements in Part A and any other terms and conditions contained in this ROP.

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.

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-VVO	Vehicle Validation operation located at Building 205. Validates both the equipment that will be used in actual assembly line and the operating parameters of the equipment. Miscellaneous solvents are used for wiping, purging, and associated cleaning activities. The process includes conventional cleaning, coating, curing, and assembly. One paint spray booth installed.	07-11-2005	NA
EU-COLDCLNR	New cold solvent cleaners exempt from Rule 201 pursuant to Rule 278 and Rule 281(2)(h) or Rule 285(2)(r)(iv).	After 07-01-1979	FG-COLDCLNRS
EU-GTCL3	2,500 gallon gasoline UST 3, dispensing to chassis dynamometers; Building 105.	01-01-1998	FG-GASTANKS
EU-GTCL4	2,500 gallon gasoline UST 4, dispensing to chassis dynamometers; Building 105.	01-01-1998	FG-GASTANKS
EU-GTCL5	5,000 gallon salvage fuel UST 5; located at Building 105.	01-01-1998	FG-GASTANKS
EU-WOODSHOP	Wood machining units.	After 08-15-1967	FG-WOODMETAL
EU-GRINDER	Machining/grinding/ sanding operations.	After 08/15/1967	FG-WOODMETAL
EU-BLASTER	Sandblasters/shotblasters.	After 08-15-1967	FG-WOODMETAL
EU-R287-BLDG101	One coating line (Maintenance/Site Operations) located in Building 101. Subject to Part 6 and 7 Rules.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG108	One coating line (Coatings Lab) located in Building 108. Emissions from the Coatings Lab are controlled by downdraft water wash system.	01-01-1970/ 01-01-2000	FG-RULE287C

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-R287-BLDG113	Nine (9) coating/paint spray booths (Nos. 36, 37, 41, 42, 43, 44, 45, Plaster 12/Parting, and Plaster12/Paint) located in Building 113. Particulate emissions are controlled using dry filters.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG105	One coating/paint spray booth (Garage) located in Building 105.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG109	Two (2) coating/paint spray booths (DQ&V/IAH13 and GAC Lab Weld) located in Building 109.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG 111	One coating/paint spray booth (West Shop) located in Building 111.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG114	One coating/paint spray booth (Refinish L3 Body) located in Building 114.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG204	One coating/paint spray booth (Refinish L3 Body) located in Building 204. Subject to Part 6 and 7 Rules.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG207	Two coating/paint spray booths (Engine Cut Away and Stress Coat/L502) located in Building 207.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG208	One coating/paint spray booth (Performance Garage) located in Building 208.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG210	One coating/paint spray booth (West/Truck Mockup) located in Building 210 (West).	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG301	One coating/paint spray booth (Spray Booth and Floor) located in Building 301. Coatings are applied using aerosol cans.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-R287-BLDG106	One coating/paint sprays booth (RML Foundry) located in Building 106.	01-01-1970/ 01-01-2000	FG-RULE287C
EU-PS302	Gas tank purge system located at Building 302.	12-31-1999	FG-RULE290
EU-PS111	Gas tank purge system located at Building 111.	01-01-1990	FG-RULE290
EU-EMGEN101	One natural gas-fueled, 530 HP emergency generator engine manufactured by Cummins and located at Building 101.	04-2017	FG-SUBPARTJJJJ
EU-EMGEN102	One gasoline-fueled, 114 HP emergency generator engine manufactured by Onan and located at Building 102.	Estimated 1977	FG-RICEMACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-EMGEN106.1	One diesel-fueled, 685 HP, 511 kW, <10 L/cylinder displacement emergency generator engine manufactured by Detroit Diesel and located at Building 106.	06-2007	FG-SUBPARTIII
EU-EMGEN106.2	One diesel-fueled, 600 HP, 448 kW, <10 L/cylinder displacement emergency generator engine manufactured by MTU and located at Building 106.	02-2016	FG-SUBPARTIII
EU-EMGEN107	60kW (80.5 HP) natural gas-fired spark ignited emergency generator and located at Building 107.	03-2017	NA
EU-EMGEN108	One natural gas-fueled, 691 HP, 515 kW emergency generator engine manufactured by Caterpillar and located at Building 108.	Mfg. Date: 10-2008	FG-SUBPARTJJJJ
EU-EMGEN115	One diesel-fueled, 130 HP emergency generator engine manufactured by Detroit Diesel and located at Building 115.	1997	FG-RICEMACT
EU-ENGINE7000BLDG202	One 1,099 kW, 1,474 bhp, diesel-fueled emergency engine manufactured in 2012 and located at Building 202.	05-16-2013	NA
EU-EMGEN202.2	One diesel-fueled, 1495 HP, 1115 kW, <10 L/cylinder displacement emergency generator engine manufactured by MTU Detroit Diesel and located at Building 202.	Install Date: 2008	FG-SUBPARTIII
EU-EMGEN202.3	One diesel-fueled, 1495 HP, 1115 kW, <10 L/cylinder displacement emergency generator engine manufactured by Detroit Diesel and located at Building 202.	Mfg. Date: 2000	FG-RICEMACT
EU-EMGEN202.4	One natural gas-fueled, 671 HP, 500 kW emergency generator engine manufactured by Onan-Cummins and located at Building 202.	Mfg. Date: 03-2004	FG-RICEMACT
EU-EMGEN202.5	One diesel-fueled, 630 HP, 1115 kW, <10 L/cylinder displacement emergency generator engine manufactured by Detroit Diesel and located at Building 202.	Estimated: 1986	FG-RICEMACT
EU-GENERATOR1	Diesel-fueled emergency generator engine, Model year 2012, 2710 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR). No add-on control. Located at Building 206.	Mfg. Date: 2011 Install Date: 11-2012	FG-BACKUPGENSBLD206

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-GENERATOR2	Diesel-fueled emergency generator engine, Model year 2012, 2710 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR). No add-on control. Located at Building 206.	Mfg. Date: 2011 Install Date: 11-2012	FG-BACKUPGENSBLD206
EU-GENERATOR3	Diesel-fueled emergency generator engine, Model year 2014 and greater, 2710 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR). No add-on control. Located at Building 206.	Mfg. Date: 2015 Install Date: 02-2016	FG-BACKUPGENSBLD206
EU-GENERATOR4	Diesel-fueled emergency generator engine, Model year 2014 and greater, 2710 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR). No add-on control. Located at Building 206.	Mfg. Date: 2015 Install Date: 02-2016	FG-BACKUPGENSBLD206
EU-DRUPS1	Diesel-fueled emergency generator engine, Model year 2011, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPS system. No add-on control. Located at Building 206.	Mfg. Date: 12-2011 Install Date: 11-2012	FG-BACKUPGENSBLD206
EU-DRUPS2	Diesel-fueled emergency generator engine, Model year 2011, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPS system. No add-on control. Located at Building 206.	Mfg. Date: 08-2012 Install Date: 05-2013	FG-BACKUPGENSBLD206
EU-DRUPS3	Diesel-fueled emergency generator engine, Model year 2012, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPS system. No add-on control. Located at Building 206.	Mfg. Date: 03-2015 Install Date: 02-2016	FG-BACKUPGENSBLD206
EU-DRUPS4	Diesel-fueled emergency generator engine, Model year 2012, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPS system. No add-on control. Located at Building 206.	Mfg. Date: 12-2011 Install Date: 11-2012	FG-BACKUPGENSBLD206

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-DRUPS5	Diesel-fueled emergency generator engine, Model year 2014 and greater, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPs system. No add-on control. Located at Building 206.	Mfg. Date: 08-2012 Install Date: 05-2013	FG-BACKUPGENSBLD206
EU-DRUPS6	Diesel-fueled emergency generator engine, Model year 2014 and greater, 3490 kW and displacement <10 liters per cylinder, designed with injection timing retardation (ITR), part of a DRUPs system. No add-on control. Located at Building 206.	Mfg. Date: 03-2015 Install Date: 02-2016	FG-BACKUPGENSBLD206
EU-EMGEN207	One natural gas-fired, 132 HP emergency generator engine manufactured by Cummins and located at Building 207.	05-2019	FG-SUBPARTJJJJ
EU-EMGEN210.1	A 2000 kW, 2682 HP, diesel-fueled emergency engine manufactured in 2001. Located at Building 210. (This engine is an "affected source" under NESHAP ZZZZ but has no requirements if it is operated as an emergency engine per 40 CFR 63.6590(b)(3)(iii)).	2001	FG-GENERATORSBLDG210
EU-EMGEN210.2	A 2000 kW, 2682 HP, diesel-fueled emergency engine manufactured in 2001. Located at Building 210. (This engine is an "affected source" under NESHAP ZZZZ but has no requirements if it is operated as an emergency engine per 40 CFR 63.6590(b)(3)(iii)).	2001	FG-GENERATORSBLDG210
EU-EMGEN207	One diesel-fueled, 268 HP emergency generator engine manufactured by Detroit Diesel and located at Building 207.	Estimated: 1999	FG-RICEMACT
EU-EMGEN210.3	One diesel-fueled, 1502 HP emergency generator engine manufactured by Detroit Diesel and located at Building 210.	Mfg. Date: 06-2002 Install Date: 2002	FG-RICEMACT
EU-EMGEN219	One diesel-fueled, 69 HP, 51 kW, <10 L/cylinder displacement emergency generator engine manufactured by Cummins and located at Building 219. (This engine is an "affected source" under NESHAP ZZZZ but has no requirements per 40 CFR 63.6590(c)(7)).	Install Date: 08-2017	FG-SUBPARTIIII

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-EMGEN501.2	One diesel-fueled, 680 HP, 507 kW emergency engine with <10 L/cylinder displacement, manufactured by Cummins and located at Building 501.	Mfg. Date: 07-2015 Install Date: 05-2015	FG-SUBPARTIII
EU-EMGEN501.3	One diesel-fueled, 755 HP emergency generator engine with <10 L/cylinder displacement, manufactured by Cummins and located at Building 501.	02-16-2019	FG-SUBPARTIII
EU-EMGEN129	One natural gas-fueled, 125 kW emergency generator engine manufactured by Cummins.	Mfg. Date: 02-2018 Install Date: 07-2018	FG-SUBPARTJJJJ
EU-EMGEN221	One natural gas-fueled, 150 kW emergency generator engine manufactured by Cummins.	Mfg. Date: 09-2017 Install Date: 07-2018	FG-SUBPARTJJJJ
EU-BOILER1CL	Climatic Boiler 1 is an existing natural gas-fired with rated capacity of 12.5 MMBtu/hour.	09-14-1998	FG-BOILERSCL FG-BOILERMACT
EU-BOILER2CL	Climatic Boiler 2 is an existing natural gas-fired with rated capacity of 12.5 MMBtu/hour.	09-15-1998	FG-BOILERSCL FG-BOILERMACT
EU-Boiler1-107	Natural gas-fired boiler with a maximum nameplate heat input capacity of 108 MMBtu/hour, low NOx burner, and flue gas recirculation.	11-07-2017	FG-BOILERSBLDG107
EU-Boiler2-107	Natural gas-fired boiler with a maximum nameplate heat input capacity of 108 MMBtu/hour, low NOx burner, and flue gas recirculation.	10-20-2017	FG-BOILERSBLDG107
EU-Boiler3-107	Natural gas-fired boiler with a maximum nameplate heat input capacity of 108 MMBtu/hour low NOx burner, and flue gas recirculation.	09-27-2017	FG-BOILERSBLDG107
EU-MISCBOIL7000(1-3)	Three natural gas-fired boilers each with a rated heat input capacity of 3.3 MMBtu/hour and located in building 202.	10-01-2018	FG-BOILERMACT
EU-MISCBOILGAE(1-2)	Two natural gas-fired boilers each with a rated heat input capacity of 2.36 MMBtu/hour and located in building 203.	10-18-2017	FG-BOILERMACT
EU-MISCBOILMTS(1-2)	Two natural gas-fired boilers each with a rated heat input capacity of 6 MMBtu/hour and located in building 301.	2012	FG-BOILERMACT

**EU-VVO
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Vehicle Validation operation located at Building 205. Validates both the equipment that will be used in actual assembly line and the operating parameters of the equipment. Miscellaneous solvents are used for wiping, purging, and associated cleaning activities. The process includes conventional cleaning, coating, curing, and assembly. One paint spray booth installed.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	400 pounds/day ²	Calendar day	EU-VVO	SC V.1 SC VI.3	R 336.1225 R 336.1205
2. VOC	36.0 tons/year ²	12-month rolling time period as determined at the end of each calendar month	EU-VVO	SC V.1 SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- All waste materials shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with applicable rules and regulations.² **(R 336.1224, R 336.1702(a))**
- The disposal of spent filters shall be performed in a manner which minimizes the introduction of air contaminants to the outer air.² **(R 336.1224, R 336.1370)**
- Vehicles produced at this facility are not to be sold; some additional R&D activities may occur prior to the vehicle being scrapped.² **(R 336.1702(a), 40 CFR 60, Subpart MM)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EU-VVO unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner.² **(R 336.1224, R 336.1301, R 336.1331, R 336.1901, R 336.1910)**

V. TESTING/SAMPLING

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

1. The VOC content, water content, and density of any material, as applied and as received, shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-04, 1.7 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content of any material shall be verified by testing at owner's expense.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.1901)**

VI. MONITORING/RECORDKEEPING

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

1. All required calculations shall be completed in a format acceptable to the AQD District Supervisor and made available by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1299, R 336.1702, R 336.1901)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1299, R 336.1702, R 336.1901)**
3. The permittee shall keep the following information on a monthly basis for EU-VVO:
 - a. Gallons of each material used.
 - b. VOC content of each material as applied.
 - c. The daily mass VOC emission rate, in pounds per day, prorated monthly.
 - d. The 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.
 - e. Records of the number of days of operation per calendar month.

The records shall be kept in a format acceptable to the AQD District Supervisor. All records shall be kept on file for a period of at least five years and made available to the department upon request.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1299, R 336.1702, R 336.1901)**

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-4	51.0 ²	65 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
2. SV-4a	51.0 ²	65 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
3. SV-5	51.0 ²	65 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
4. SV-5a	51.0 ²	65 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
5. SV-6	13.0 ²	65 ²	R 336.1225, R 336.1901, 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-ENGINE7000BLDG202
 EMISSION UNIT CONDITIONS**

DESCRIPTION

One 1,099 kW, 1,474 bhp, diesel-fueled emergency engine manufactured in 2012 and located at Building 202.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NMHC + NOx	6.4 g/kW-hr ²	Hourly	EU- ENGINE7000BLDG202	SC V.1 SC VI.2 SC VI. 5	40 CFR 60.4205
2. CO	3.5 g/kW-hr ²	Hourly	EU- ENGINE7000BLDG202	SC V.1 SC VI.2 SC VI. 5	40 CFR 60.4205
3. PM	0.20 g/kW-hr ²	Hourly	EU- ENGINE7000BLDG202	SC V.1 SC VI.2 SC VI. 5	40 CFR 60.4205

II. MATERIAL LIMIT(S)

- The permittee shall burn only diesel fuel, in EU-ENGINE7000BLDG202 with the maximum sulfur content of 15 ppm (0.0015 percent) by weight.² **(R 336.1205(1)(a) & (3), R 336.1402(1), 40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate EU-ENGINE7000BLDG202 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month, including the hours as specified in SC III.2.² **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
- The permittee may operate EU-ENGINE7000BLDG202 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. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. EU-ENGINE7000BLDG202 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. The 50 hours per calendar 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.² **(40 CFR 60.4211)(f))**
- 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-ENGINE7000BLDG202:

- a. Operate and maintain EU-ENGINE7000BLDG202 and control device according to the manufacturer's emission-related written instructions.
 - b. The permittee may only change those settings that are permitted by the manufacturer. If you do not operate and maintain the engine and control device according to the manufacturer's emission-related written instructions, the engine must demonstrate compliance as specified in SC III.4.
 - c. Meet the requirements as specified in 40 CFR 89, as it applies to you.² **(40 CFR 60.4211(a))**
4. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for EU-ENGINE7000BLDG202 and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions.² **(40 CFR 60.4211(g)(3))**
 5. The permittee shall operate and maintain EU-ENGINE7000BLDG202 to meet the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. **(40 CFR 60.4206)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EU-ENGINE7000BLDG202 with non-resettable hours meters to track the operating hours.² **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4209)**
2. The nameplate capacity of EU-ENGINE7000BLDG202 shall not exceed 1,099 kW, as certified by the equipment manufacturer.² **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4202, 40 CFR 89.112(a))**

V. TESTING/SAMPLING

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

1. The permittee shall conduct an initial performance test for EU-ENGINE7000BLDG202 within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4205 unless the engines have been certified by the manufacturer and the permittee maintains the engine as required by 40 CFR, Part 60, Subpart IIII. 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.² **(40 CFR 60.4211, 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 complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep, in a satisfactory manner, records of testing required in SC V.1 or manufacturer's certification documentation indicating that EU-ENGINE7000BLDG202 meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR, Part 60, Subpart IIII. If EU-ENGINE7000BLDG202 becomes uncertified then the permittee must also keep records of a maintenance plan and maintenance activities. The permittee shall keep all records on file and make them available to the Department upon request.² **(40 CFR 60.4211)**
3. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EU-ENGINE7000BLDG202, on a monthly and 12-month rolling time period basis, in a manner acceptable to the District Supervisor, Air Quality Division. The permittee shall document how many hours are spent for emergency operation of EU-ENGINE7000BLDG202, including what classified the operation as emergency and how many hours are spent for non-emergency operation.² **(R 336.1205(1)(a) & (3), 40 CFR 60.4211)**

4. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in EU-ENGINE7000BLDG202, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil.² **(R 336.1205(1)(a) & (3), R 336.1402(1), 40 CFR 80.510(b))**
5. The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that EU-ENGINE7000BLDG202 has been maintained according to the manufacturer's emission-related written instructions, as specified in SC III.3. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R336.1213(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. **(R336.1213(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. **(R336.1213(4)(c))**
4. The permittee shall submit all applicable notifications specified in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4), and (f)(6), and 40 CFR 63.9(b) through (e), (g), and (h) by the dates specified.² **(40 CFR 63.6645(a)(3) and (f))**

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-ENGINE7000BLDG	7.9 ²	11.7 ²	R 336.1225, R 336.2803, R 336.2804, 40 CFR 60 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 IIII, as they apply to EU-ENGINE7000BLDG202.² **(40 CFR, Part 60, Subparts A & IIII)**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR 63, Subpart A and Subpart ZZZZ, as they apply to EU-ENGINE7000BLDG202, by initial startup.² **(40 CFR 63, Subparts A and ZZZZ, 40 CFR 63.6595)**

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-EMGEN107
 EMISSION UNIT CONDITIONS**

DESCRIPTION

60kW (80.5 HP) natural gas-fired spark ignited emergency generator and located at Building 107.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO _x + HC	10 g/HP-hr ²	Hourly	EU-EMGEN107	SC V.1 SC VI.3 SC VI.4	40 CFR 60.4233(d) (Table 1)
2. CO	387 g/HP-hr ²	Hourly	EU-EMGEN107	SC V.1 SC VI.3 SC VI.4	40 CFR 60.4233(d) (Table 1)

II. MATERIAL LIMIT(S)

- The permittee shall burn only natural gas in EU-EMGEN107 except as allowed in 40 CFR 60.4243(e). Owners and operators of stationary SI natural gas-fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233.² **(40 CFR 60.4243(e))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall comply with the emission standards specified in 40 CFR 40 CFR 60.4233(d), (SC I.1 and I.2) by purchasing an engine certified to the emission standards in 40 CFR 40 CFR 60.4231(a) through (c), as applicable, for the same engine class and maximum engine power.² **(40 CFR 60.4243(a))**
- At all times, the permittee must operate and maintain any emergency stationary reciprocating internal combustion engine (RICE), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.² **(40 CFR 63.6605(b))**
- There is no time limit on the use of emergency stationary RICE in emergency situations.² **(40 CFR 63.6640(f)(1))**
- The permittee may operate EU-EMGEN107 for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year.² **(40 CFR 63.6640(f)(2))**

5. Each engine in EU-EMGEN107 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as provided in 40 CFR 63.6640(f)(2). The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity.² **(40 CFR 63.6640(f)(3))**
6. For existing and new/reconstructed emergency engines ≤ 500 HP, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times (other than startup) in Table 2c to Subpart ZZZZ of Part 63 apply.² **(40 CFR 63.6625(h))**
7. The permittee shall operate and maintain EU-EMGEN107 such that it meets the emission limits in 40 CFR 60.4233(d) over the entire life of the engine.² **(40 CFR 60.4234, 40 CFR 60.4243(b))**
8. 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-EMGEN107:
 - 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, and
 - c. Meet the requirements as specified in 40 CFR 1068 Subparts A through D

If the permittee does 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 and be subject to testing to determine compliance with the emission limits.² **(40 CFR 60.4243(b)(1) & (2))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EU-EMGEN107 with a non-resettable hour's meter to track the operating hours.² **(40 CFR 60.4237(c))**
2. The nameplate capacity of EU-EMGEN107 shall not be less than 19 kW (25 HP) nor shall the capacity exceed 75 kW (100 HP), as certified by the equipment manufacturer.² **(40 CFR 60.4233(d))**

V. TESTING/SAMPLING

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

1. If EU-EMGEN107 is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a. Conduct an initial performance test to demonstrate compliance with the applicable emission standards in 40 CFR 60.4233(d), within 60 days after achieving the maximum production rate at which EU-EMGEN107 will be operated, but not later than 180 days after initial startup of EU-EMGEN107, or within one year after EU-EMGEN107 is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after changing emission-related settings in a way that is not permitted by the manufacturer.
 - b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.
 - c. Conduct subsequent performance testing every 8,760 hours of engine operation or every three years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.

If a performance test is required, 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 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 Technical

Programs Unit and District Office within 60 days following the last date of the test.² **(40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 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 monitor and record the total hours of operation for EU-EMGEN107 per calendar year, recorded through the non-resettable hours meter, in a manner acceptable to the District Supervisor, Air Quality Division. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator 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.² **(40 CFR 60.4245(b))**
2. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d)), 40 CFR 60.4243, 40 CFR 60.4245)**
3. The permittee shall keep, in a satisfactory manner, the following records for EU-EMGEN107:
 - a. If certified: The permittee shall keep records of the documentation from the manufacturer that the EU-EMGEN107 is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
 - b. If non-certified: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205(1)(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e), 40 CFR 60.4243, 40 CFR 60.4245(a))**

4. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for EU-EMGEN107:
 - a. If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that EU-EMGEN107 has been maintained according to them, as specified in SC III.8.
 - b. If non-certified: The permittee shall keep records of a maintenance plan, as required by 40 CFR 60.4243 and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request.² **(40 CFR 60.4243, 40 CFR 60.4245(a), 40 CFR Part 60 Subpart JJJJ)**

5. The permittee shall keep, in a satisfactory manner, either vendor emissions guarantees, or the testing required by this ROP, for EU-EMGEN107. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205(1)(a), 40 CFR 52.21(c) & (d))**
6. If EU-EMGEN107 does not meet the standards applicable to non-emergency engines for the applicable size and model year then the permittee shall monitor and record the operation of EU-EMGEN107 in emergency and non-emergency service that are recorded through the non-resettable hours meter, in a manner acceptable to the District Supervisor, Air Quality Division. The permittee shall document the time of operation of the engine and the reason the engine was in operation during that time.² **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4243, 40 CFR 60.4245(b))**
7. The permittee shall keep records of all notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ, as required by this PTI, and all documentation supporting any notification.² **(40 CFR 60.4245(a))**

VII. REPORTING

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

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**
5. The permittee shall submit a notification specifying whether EU-EMGEN107 will be operated in a certified or a non-certified manner to the AQD District Supervisor, within 30 days of switching the manner of operation.² **(40 CFR Part 60 Subpart JJJJ, 40 CFR 60.4245(a)(4), 40 CFR 60.4243(a)(2))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. For new/reconstructed emergency spark ignition engines \leq 500 HP, the permittee shall comply with the applicable provisions of 40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines).² **(40 CFR 63.6590(c))**
2. The permittee shall comply with the applicable provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart A and Subpart ZZZZ, by the dates specified in 40 CFR 63.6595.² **(40 CFR 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).

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.

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-COLDCLNRS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278, Rule 278a and Rule 281(2)(h) or Rule 285(2)(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	EU-COLDCLNR
FG-GASTANKS	Gasoline storage tanks dispensing to either engine dynamometers, chassis dynamometers, or motor vehicles which are exempt from the requirements of R 336.1201 pursuant to R 336.1284(2)(g), but subject to the requirements of R 336.1703	EU-GTCL3, EU-GTCL4, EU-GTCL5
FG-WOODMETAL	Wood and metal machining operations exempt from the requirements of R 336.1201 pursuant to R 336.1285(2)(l)(vi), but subject to the requirements of R 336.1331. The number of wood and metal machining units constantly varies depending on project needs.	EU-WOODSHOP, EU-GRINDER, EU-BLASTER
FG-RULE287C	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 287(2)(c). Emission units installed/modified before December 20, 2016, may show compliance with Rule 287 in effect at the time of installation/modification.	EU-R287-BLDG101, EU-R287-BLDG108, EU-R287-BLDG113, EU-R287-BLDG105, EU-R287-BLDG109, EU-R287-BLDG111, EU-R287-BLDG114, EU-R287-BLDG204, EU-R287-BLDG207, EU-R287-BLDG208, EU-R287-BLDG210, EU-R287-BLDG301, EU-R287-BLDG106
FG-RULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.	EU-PS302, EU-PS111

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-GENERATORSBLDG210	Two 2,000 kW diesel-fueled emergency generators manufactured in 2001.	EU-EMGEN210.1, EU-EMGEN210.2
FG-BACKUPGENSBLD206	Ten (10) diesel-fueled emergency generator engines. All engines are designed to operate with injection timing retardation (ITR) for the purpose of exhaust emissions optimization. All engines are subject to NSPS IIII and NESHAP ZZZZ.	EU-DRUPS1, EU-DRUPS2, EU-DRUPS3, EU-DRUPS4, EU-DRUPS5, EU-DRUPS6, EU-GENERATOR1, EU-GENERATOR2, EU-GENERATOR3, EU-GENERATOR4
FG-RICEMACT	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) applicable to existing RICE less than 500 HP, existing RICE greater than 500 HP, and new RICE greater than 500 HP that commenced construction on or before July 11, 2005.	EU-EMGEN102, EU-EMGEN115, EU-EMGEN202.2, EU-EMGEN202.3, EU-EMGEN202.4, EU-EMGEN202.5, EU-EMGEN207, EU-EMGEN210.3
FG-SUBPARTIIII	New Source Performance Standards for Compression Ignition Internal Combustion Engines (CI ICE) applicable to emergency CI engines with <10 L/cylinder displacement that were constructed (ordered) after July 11, 2005 and manufactured after April 1, 2006.	EU-EMGEN106.1, EU-EMGEN106.2, EU-EMGEN202.2, EU-EMGEN219, EU-EMGEN501.2, EU-EMGEN501.3
FG-SUBPARTJJJJ	New Source Performance Standards for Spark Ignition Internal Combustion Engines (SI ICE) applicable to emergency SI engines greater than or equal to 100 horsepower (except gasoline or rich burn LPG) that were constructed (ordered) after June 12, 2006 and manufactured on or after January 1, 2009.	EU-EMGEN101, EU-EMGEN108, EU-EMGEN129, EU-EMGEN207, EU-EMGEN221
FG-BOILERSBLDG107	Three natural gas-fired boilers with a maximum nameplate heat input capacity of 108 MMBtu-hr (subject to NSPS Db and NESHAP DDDDD).	EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107
FG-BOILERSCL	Natural gas-fired boilers used for creating climatic conditions to conduct physical analysis of vehicles and its components. Boilers are also used to provide comfort heating.	EU-BOILER1CL, EU-BOILER2CL

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-BOILERMACT	<p>Natural gas-fired and dual fuel boilers and process heaters subject to 40 CFR 63, Subpart DDDDD.</p> <p>Unit designed to burn gas 1 subcategory includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition.</p>	<p>EUBOILER1CL, EUBOILER2CL, EU-MISCBOIL7000(1-3), EU-MISCBOILGAE(1-2), EU-MISCBOILMTS(1-2)</p>

FG-COLDCLNRS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Units: EU-COLDCLNR

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:
 - a. The air/vapor interface of the cold cleaner is no more than ten square feet. **(R 336.1281(2)(h))**
 - b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment. **(R 336.1285(2)(r)(iv))**
2. The cold cleaner shall be equipped with a device for draining cleaned parts. **(R 336.1611(2)(b), R 336.1707(3)(b))**
3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner. **(R 336.1611(2)(a), R 336.1707(3)(a))**
4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated. **(R 336.1707(3)(a))**
5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:
 - a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7. **(R 336.1707(2)(a))**
 - b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0. **(R 336.1707(2)(b))**

- c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD. **(R 336.1707(2)(c))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

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

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

**FG-GASTANKS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Gasoline storage tanks dispensing to either engine dynamometers, chassis dynamometers, or motor vehicles which are exempt from the requirements of R 336.1201 pursuant to R 336.1284(2)(g), but subject to the requirements of R 336.1703.

Emission Units: EU-GTCL3, EU-GTCL4, EU-GTCL5

POLLUTION CONTROL EQUIPMENT

Vapor balance system

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 equip each stationary vessel under FG-GASTANKS with a permanent submerged fill pipe. **(R 336.1703(1))**
2. A vapor balance system or an equivalent control system approved by the AQD shall be installed for each stationary vessel under FG-GASTANKS. The vapor balance system shall capture displaced gasoline vapor and air via a vapor tight collection line and shall be designed to return not less than 90% by weight of the displaced gasoline vapor from the stationary vessel to the delivery vessel. **(R 336.1703(2))**
3. The permittee shall equip, maintain, or control each stationary vessel under FGGASTANKS with both of the following:
 - a. An interlocking system or procedure to ensure that the vapor-tight collection line is connected before any gasoline can be loaded. **(R 336.1703(3)(a))**
 - b. A device to ensure that the vapor-tight collection line shall close upon disconnection so as to prevent release of gasoline vapor. **(R 336.1703(3)(b))**
4. Any new stationary vessel at a gasoline dispensing facility that is not subject to the provisions of Rule 703, Subrules (2) and (3) shall be constructed in a manner that will allow the vessel to be retrofitted according to such provisions. **(R 336.1703(5))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a record of the capacity and date of installation for each gasoline storage vessel contained under FGGASTANKS. **(R 336.1213(3))**
2. At least once per quarter, the permittee shall inspect the interlock system and the device to ensure the vapor tight collection line. **(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)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of R 336.1703. **(R 336.1213(3))**

**FG-WOODMETAL
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Wood and metal machining operations exempt from the requirements of R 336.1201 pursuant to R 336.1285(2)(l)(vi), but subject to the requirements of R 336.1331. The number of wood and metal machining units constantly varies depending on project needs.

Emission Units: EU-WOODSHOP, EU-GRINDER, EU-BLASTER

POLLUTION CONTROL EQUIPMENT

Dust collector, for some units

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Particulate matter	0.1 pounds per 1,000 pounds of exhaust gases, on a dry gas basis	Instantaneous	FG-WOODMETAL	SC VI.1 - VI.3	R 336.1331

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the machining operations with associated particulate control devices unless the control equipment is installed and operating properly. (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))

1. At least once per quarter the permittee shall conduct routine and scheduled preventative maintenance on the particulate control equipment and keep a record of these activities including dates of filter replacements. For seldom used wood and machining units, routine and scheduled preventative maintenance on the particulate control equipment can be done annually. (R 336.1213(3))
2. The permittee shall maintain on file a calculation which demonstrates that compliance with the particulate limit can be achieved. (R 336.1213(3))
3. During operation of FG-WOODMETAL, the permittee shall conduct visible emission observations at least once a month for six consecutive months. After six consecutive monthly visible emissions observations with no visible

emissions observed from FG-WOODMETAL, visible emission readings can be reduced to once every three calendar months. If opacity is observed, the permittee shall conduct preventative maintenance on the control equipment immediately and visible emissions must be taken once a month for a minimum of six consecutive observations. The permittee shall keep records of the visible emissions observations and the preventative maintenance conducted on the particulate control equipment. **(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)

NA

IX. OTHER REQUIREMENT(S)

NA

FG-RULE287C
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 287(2)(c). Emission units installed/modified before December 20, 2016, may show compliance with Rule 287 in effect at the time of installation/modification.

Emission Units: EU-R287-BLDG101, EU-R287-BLDG108, EU-R287-BLDG113, EU-R287-BLDG105, EU-R287-BLDG109, EU-R287-BLDG111, EU-R287-BLDG114, EU-R287-BLDG204, EU-R287-BLDG207, EU-R287-BLDG208, EU-R287-BLDG210, EU-R287-BLDG301, EU-R287-BLDG106

POLLUTION CONTROL EQUIPMENT

Dry filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	2000 lbs/month	Calendar month	Each coating line, purge and clean-up operations in EU-R287-BLDG101 and EU-R287-BLDG204	SC VI.2	R 336.1621(10) R 336.1632(15)
2. VOC	10 tpy	12-month rolling time period as determined at the end of each calendar month	Each coating line, purge and clean-up operations in EU-R287-BLDG101 and EU-R287-BLDG204	SC VI.2	R 336.1621(10) R 336.1632(15)
3. VOC	30 tpy	12-month rolling time period as determined at the end of each calendar month	All coating lines combined in FG-RULE287C	SC VI.2	R 336.1621(10) R 336.1632(15)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Underlying Applicable Requirement
1. Coatings	200 Gallons/month (minus water as applied)	Calendar month	Each emission unit in FG- RULE287C	R 336.1287(2)(c)(i)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- Any exhaust system installed on or after December 20, 2016, that serves only coating spray equipment shall be equipped with a dry filter control or water wash control which is installed, maintained, and operated in accordance with the manufacturer's specifications, or the permittee develops a plan which provides to the extent practicable for the maintenance and operation of the equipment in a manner consistent with good air pollution control

practices for minimizing emissions. All emission units installed before December 20, 2016, with an exhaust system that serves only coating spray equipment must have a properly installed and operated particulate control system. **(R 336.1213(2), R 336.1287(2)(c)(ii), R 336.1910)**

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. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the EGLE, AQD Rule 287(c), Permit to Install Exemption Record form (EQP 3562) or an alternative format that is approved by the AQD District Supervisor. **(R 336.1213(3))**
 - a. Volume of coating used, as applied, minus water, in gallons. **(R 336.1287(c)(iii))**
 - b. Documentation of any filter replacements or maintenance of water wash control for exhaust systems serving coating spray equipment or other documentation included in a plan developed by the owner or operator of the equipment. **(R 336.1213(3))**
2. The permittee shall maintain records to document monthly and yearly VOC emissions from each Service Technology operations and maintenance paint spray booths (EU-R287-BLDG101 and EU-R287-BLDG204), and yearly VOC emissions from all paint spray booths combined. **(R 336.1213(3))**

See Appendix 4.A

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FG-RULE290 FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

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

Emission Units installed prior to December 20, 2016: EU-PS302, EU-PS111

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(2)(a)(iii)(A))**

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

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

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

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

See Appendix 4.B.

VII. REPORTING

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

See Appendix 8

**FG-GENERATORSBLDG210
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two 2,000 kW diesel-fueled emergency generators manufactured in 2001.

Emission Units: EU-EMGEN210.1, EU-EMGEN210.2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	15.5 tpyA2	12-month rolling time period as determined at the end of each calendar month	EU-EMGEN210.1	SC V.1 SC VI.2 SC VI.4	R 336.1205(1)(a)
2. NOx	15.5 tpyA2	12-month rolling time period as determined at the end of each calendar month	EU-EMGEN210.2	SC V.1 SC VI. 2 SC VI. 4	R 336.1205(1)(a)

^AThe NOx limit is based on an emission factor of 10.52 g NOx/HP-hr.

II. MATERIAL LIMIT(S)

- The permittee shall burn only diesel fuel in FG-GENERATORSBLDG210 with the maximum sulfur content of 15 ppm (0.0015 percent) by weight.² **(R 336.1205(1)(a), R 336.1402(1))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate each engine in FG-GENERATORSBLDG210 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month.² **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
- The permittee shall install, maintain, and operate each engine in FG-GENERATORSBLDG210 according to the manufacturer written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine.² **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
- In order for the engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (3), and listed below, is prohibited. If you do not operate the engine according to the requirements in paragraphs 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and will need to meet all requirements for non-emergency engines.
 - There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 63.6640(f)(1))**
 - You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs 40 CFR 63.6640(f)(2)(i) through (iii), listed below, for a maximum of 100 hours per calendar year.

Any operation for non-emergency situations as allowed by paragraphs 40 CFR 63.6640(f) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). **40 CFR 63.6640(f)(2)**

- i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
 - ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of five percent or greater below standard voltage or frequency.
- c. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. These 50 hours of operation are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response. **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-GENERATORSBLDG210 with a non-resettable hours meter to track the operating hours.² **(R 336.1205(1)(a) & (3))**
2. The nameplate capacity of each engine in FG-GENERATORSBLDG210 shall not exceed 2000 kW, as certified by the equipment manufacturer.² **(R 336.1205(1)(a) & (3))**

V. TESTING/SAMPLING

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

1. Upon request, the permittee shall verify NO_x emission rates from the engines in FG-GENERATORSBLDG210 by testing at owner's expense, in accordance with Department requirements. No less than 60 days prior to testing, the permittee must submit a complete stack-testing plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² **(R 336.2001, R 336.2003, R 336.2004)**
2. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 7 days of the time and place before performance tests are conducted. **(R 336.1213(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall monitor and record, the hours of operation of each engine in FG-GENERATORSBLDG210, on a monthly and 12-month rolling time period basis, in a manner that is acceptable to the District Supervisor, Air Quality Division.² **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
3. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FG-GENERATORSBLDG210, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510. The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil.² **(R 336.1205(1)(a) & (3), 40 CFR 80.510)**

- The permittee shall calculate NOx emissions from each engine in FG-GENERATORSBLDG210 on a monthly and 12-month rolling time period, as determined at the end of each calendar month. **(R 336.1213(3))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-EMGEN210.1	8.0 ²	17.3 ²	R 336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. SV-EMGEN210.2	8.0 ²	17.3 ²	R 336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

- The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines, as they apply to each engine in FG-GENERATORSBLDG210.² **(40 CFR Part 63 Subpart 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).

**FG-BACKUPGENSBLDG206
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Ten (10) diesel-fueled emergency generator engines. All engines are designed to operate with injection timing retardation (ITR) for the purpose of exhaust emissions optimization. All engines are subject to NSPS IIII and NESHAP ZZZZ.

Emission Units: EU-DRUPS1, EU-DRUPS2, EU-DRUPS3, EU-DRUPS4, EU-DRUPS5, EU-DRUPS6, EU-GENERATOR1, EU-GENERATOR2, EU-GENERATOR3, EU-GENERATOR4

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	8 g/kW-hr ²	Hourly	Each DRUP engine: EU-DRUP1-EU-DRUP6	SC V.1	R 336.2803 R 336.2804 R 336.2810
2. NOx	7.13 g/kW-hr ²	Hourly	Each mechanical engine: EU-GENERATOR1- EU-GENERATOR4	SC V.1	R 336.2803 R 336.2804 R 336.2810
3. NMHC + NOx FEL*	10.5 g/kW-hr ²	Hourly	Each engine of FG- BACKUPGENSBLDG206	SC V.1 SC V.2 SC VI.2	40 CFR 60.4205 40 CFR 60.4202 40 CFR 89.112 Table 2
4. CO	3.5 g/kW-hr ²	Hourly	Each engine of FG- BACKUPGENSBLDG206	SC V.1 SC V.2 SC VI.2	40 CFR 60.4205 40 CFR 60.4202 40 CFR 89.203(c) 40 CFR 89.112 Table 1
5. PM FEL*	0.54 g/kW-hr ²	Hourly	Each engine of FG- BACKUPGENSBLDG206	SC V.1 SC V.2 SC VI.2	40 CFR 60.4205 40 CFR 60.4202 40 CFR 89.112 Table 2

*FEL means Family Emission Limit

II. MATERIAL LIMIT(S)

- The permittee shall burn only diesel fuel, in each engine in FG-BACKUPGENSBLDG206 with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.² (**R 336.1205(1)(a) & (b), R 336.1402(1), 40 CFR 60.4207, 40 CFR 80.510(b)**)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate each engine of FG-BACKUPGENSBLDG206 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2.² (**R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c) & (d)**)

2. The permittee may operate each engine of FG-BACKUPGENSBLDG206 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 calendar year. Each engine of FG-BACKUPGENSBLDG206 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. The 50 hours per calendar 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.² **(40 CFR 60.4211)**
3. Except as allowed by 40 CFR 60.4211(g), as described in SC III.4, the permittee shall purchase a certified engine for the same model year and maximum engine power as the applicable emission standards. The permittee shall meet the following requirements for each engine, over the entire life of each engine:
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
 - b. The certified engine must be installed and configured according to the manufacturer's emission-related specifications, where only those emission-related settings that are permitted by the manufacturer may be changed, and
 - c. Meet the requirements as specified in 40 CFR 89, 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 and must demonstrate compliance as specified in SC III.4.² **(40 CFR 60.4206, 40 CFR 60.4211(a) & (c))**

4. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each engine and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions.² **(40 CFR 60.4211(g)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine of FG-BACKUPGENSBLDG206 with non-resettable hours meters to track the operating hours.² **(R 336.1205(1)(a) & (b), R 336.1225, 40 CFR 60.4209)**
2. The nameplate capacity of each engine, EU-DRUPS1 through EU-DRUPS6, shall not exceed 3490 kW, and the nameplate capacity of each engine, EU-GENERATOR1 through EU-GENERATOR4, shall not exceed 2710 kW, as certified by the equipment manufacturer.² **(R 336.1205(1)(a) & (b), R 336.1225, 40 CFR 60.4202, 40 CFR 89.112)**

V. TESTING/SAMPLING

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

1. Upon request of the AQD District Supervisor, the permittee shall verify NO_x, NMHC + NO_x, CO and PM emission rates from one of more engines in FG-BACKUPGENSBLDG206, by testing at owner's expense, in accordance with Department requirements. If testing is to be performed, the permittee must submit a complete stack-testing plan to the AQD no less than 30 days prior to testing. 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 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810, 40 CFR 60.4211)**
2. Unless the engines have been certified by the manufacturer as required by 40 CFR Part 60 Subpart IIII and the permittee maintains each engine as required by 40 CFR 60.4211, the permittee shall conduct an initial performance test for each engine in FG-BACKUPGENSBLDG206, within one year after startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after the permittee changes

emission-related settings in a way that is not permitted by the manufacturer, to demonstrate compliance with the emission limits in 40 CFR 60.4205(b). If a performance test is required, the performance test 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. After conducting the initial performance test, the permittee shall conduct subsequent performance testing, for non-certified engines, every 8,760 hours or three years, whichever comes first. 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 336.2001, R 336.2003, R 336.2004, 40 CFR 60.4211(g), 40 CFR 60.4212)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804)**
2. For each engine of FG-BACKUPGENSBLDG206, the permittee shall keep, in a satisfactory manner, records of testing required in SC V.1 or manufacturer certification documentation indicating that the engine meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart IIII. If any engine becomes uncertified then the permittee must also keep records of a maintenance plan and maintenance activities for that engine. The permittee shall keep all records on file and make them available to the Department upon request.² **(40 CFR 60.4211)**
3. Starting with the model years in Table 5 to 40 CFR Part 60, Subpart IIII, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee shall keep records of the operation of each engine of FG-BACKUPGENSBLDG206 in emergency and non-emergency service that are recorded through the non-resettable hour meter, on a calendar year basis. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.² **(40 CFR 60.4211, 40 CFR 60.4214(b))**
4. The permittee shall monitor and record the total hours of operation for each engine of FG-BACKUPGENSBLDG206, on a monthly and 12-month rolling time period basis, in a manner acceptable to the District Supervisor, Air Quality Division.² **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)**
5. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in each engine of FG-BACKUPGENSBLDG206, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b), as stated in SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil and either the cetane index or aromatic content of the fuel oil.² **(R 336.1205(1)(a) & (b), R 336.1402(1), 40 CFR 80.510(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction,

reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each engine of FG-BACKUPGENSBLDG206.² **(R 336.1201(7)(a))**

- The permittee shall submit a notification specifying whether each engine of FG-BACKUPGENSBLDG206 will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following a switching of the manner of operation.² **(40 CFR Part 60 Subpart III)**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVDRUPS1	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
2. SVDRUPS2	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
3. SVDRUPS3	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
4. SVDRUPS4	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
5. SVDRUPS5	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
6. SVDRUPS6	22.0 ²	29.7 ²	R 336.1225, R 336.2803, R 336.2804
7. SVGENERATOR1	20.1 ²	24.0 ²	R 336.1225, R 336.2803, R 336.2804
8. SVGENERATOR2	20.1 ²	24.0 ²	R 336.1225, R 336.2803, R 336.2804
9. SVGENERATOR3	20.1 ²	24.0 ²	R 336.1225, R 336.2803, R 336.2804
10. SVGENERATOR4	20.1 ²	24.0 ²	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

- 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 III, as they apply to each engine of FG-BACKUPGENSBLDG206.² **(40 CFR Part 60 Subparts A & III)**
- 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 of FG-BACKUPGENSBLDG206, upon startup.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).

FG-RICEMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE) applicable to existing RICE less than 500 HP, existing RICE greater than 500 HP, and new RICE greater than 500 HP that commenced construction on or before July 11, 2005.

Emission Units:

Existing RICE (commenced construction before June 12, 2006) less than or equal to 500 HP
EU-EMGEN102, EU-EMGEN115, EU-EMGEN207

Existing RICE (commenced construction before December 19, 2002) greater than 500 HP
EU-EMGEN202.3, EU-EMGEN202.5, EU-EMGEN210.3

New RICE (commenced construction on or after December 19, 2002) greater than 500 HP
EU-EMGEN202.4

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. At all times, the permittee must operate and maintain any emergency stationary reciprocating internal combustion engine (RICE), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.6605(b))**
2. The permittee shall not operate emergency engines for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. **(R 336.2803, R 336.2804, R336.1213(3))**
3. In order for an engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), and listed below, is prohibited. If you do not operate the engine according to the requirements in paragraphs 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and will need to meet all requirements for non-emergency engines.
 - a. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 63.6640(f)(1))**
 - b. You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs 40 CFR 63.6640(f)(2)(i) through (iii), listed below, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs 40 CFR 63.6640(f) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
 - i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the

insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

- ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of five percent or greater below standard voltage or frequency. **(40 CFR 63.6640(f)(2))**
 - c. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. These 50 hours of operation are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response. **(40 CFR 63.6640(f)(3))**
3. For existing CI emergency RICE with a site rating of more than 500 brake HP and new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP, the permittee shall not operate or not be contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), as stated in SC III.3.b.ii. and iii. **(40 CFR 63.6590(b)(1)(i), 40 CFR 63.6590(b)(3)(iii))**
 4. For existing emergency engines \leq 500 HP, the permittee must conduct the following:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first.
 - b. Inspect air cleaner (compression ignition units) or spark plugs (spark ignition units) every 1,000 hours of operation or annually whichever comes first and replace as necessary.
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. **(40 CFR 63.6602, Table 2c to Subpart ZZZZ of Part 63)**
 5. For existing emergency engines \leq 500 HP, the permittee must operate and maintain the stationary RICE and after treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6625(e))**
 6. For existing emergency engines \leq 500 HP, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times (other than startup) in Table 2c to Subpart ZZZZ of Part 63 apply. **(40 CFR 63.6625(h))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee must install a non-resettable hour-meter. **(40 CFR 63.6625(f), (R336.1213(3))**

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 existing emergency engines \leq 500 HP, the permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the engine and after-treatment device (if any) was operated and maintained according to the maintenance plan. **(40 CFR 63.6655(e))**

2. The permittee must keep monthly and 12-month rolling records of the hours of operation of each engine in FG-RICEMACT that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency. **(40 CFR 63.6655(f), (R336.1213(3))**
3. For existing emergency engines \leq 500 HP, the permittee must keep records of the occurrence and duration of each malfunction of operation of the engine, or air pollution control and monitoring equipment, if installed. **(40 CFR 63.6655(a)(2))**
4. For existing emergency engines \leq 500 HP, the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment, if installed, to its normal or usual manner of operation. **(40 CFR 63.6655(a)(5))**
5. The permittee shall keep a list of all emergency engines subject to 40 CFR 63, Subpart ZZZZ, including the rating and date of installation of each emergency generator. **(R 336.1213(3))**
6. The permittee shall record the types of fuel used in each engine in FG-RICEMACT and calculate the amount of fuel used in each engine in FG-RICEMACT per calendar year. Fuel usage shall be calculated using the maximum hourly fuel consumption rate at 100 percent load and the hours of operation for each engine in FG-RICEMACT. **(R 336.202)**
7. The permittee shall monitor and record the hours of operation of each engine in FG-RICEMACT on a monthly and 12-month rolling time period. **(R 336.1213(3))**
8. The permittee shall keep records of the diesel fuel oil sulfur content used in the compression ignition engines in FG-RICEMACT. **(R 336.1402)**

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 the applicable provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart A and Subpart ZZZZ, by the dates specified in 40 CFR 63.6595. **(40 CFR 63 Subparts A and ZZZZ)**

**FG-SUBPARTIII
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

New Source Performance Standards for Compression Ignition Internal Combustion Engines (CI ICE) applicable to emergency CI engines with <10 L/cylinder displacement that commenced construction (ordered) after July 11, 2005 and manufactured after April 1, 2006.

Emission Units:

CI internal combustion engine with maximum engine power less than 100 HP

EU-EMGEN219

CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP

NA

CI internal combustion engine greater than 500 HP

EU-EMGEN106.1, EU-EMGEN106.2, EU-EMGEN202.2, EU-EMGEN501.2, EU-EMGEN501.3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. CO	5 g/kW-hr	Hourly	EU-EMGEN219	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)
2. CO	3.5 g/kW-hr	Hourly	EU-EMGEN106.1 EU-EMGEN106.2 EU-EMGEN202.2, EU-EMGEN501.2, EU-EMGEN501.3	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)
3. PM	0.4 g/kW-hr	Hourly	EU-EMGEN219	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)
4. PM	0.2 g/kW-hr	Hourly	EU-EMGEN106.1 EU-EMGEN106.2 EU-EMGEN202.2, EU-EMGEN501.2, EU-EMGEN501.3	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)
5. NMHC + NOx	4.7 g/kW-hr	Hourly	EU-EMGEN219	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
6. NMHC + NOx	4 g/kW-hr	Hourly	EU-EMGEN106.1 EU-EMGEN106.2 EU-EMGEN501.2	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a) 40 CFR 60.4205(c)
7. NMHC + NOx	6.4 g/kW-hr	Hourly	EU-EMGEN202.2 EU-EMGEN501.3	SC V.1 SC VI.2 SC VI.3 SC VI.5	40 CFR 60.4205(b) 40 CFR 60.4202(a)(2) 40 CFR 89.112(a)

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel with a maximum sulfur content of 15 ppm (0.0015 percent) by weight and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. **(40 CFR 60.4207(b), 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must operate and maintain emergency engines and control device, if installed, according to the manufacturer’s emission related written instructions. **(40 CFR 60.4211(a))**
2. The permittee may change only emission related settings that are permitted by the manufacturer. **(R 336.4211(a))**
3. The permittee must meet applicable requirements specified in 40 CFR 89. **(R 336.4211(a))**
4. If the permittee does not install, configure, operate, and maintain an engine and control device in FG-SUBPARTIII according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a. The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
 - b. The permittee shall conduct performance testing in accordance with 40 CFR 60.4211(g)(1) through (3), 40 CFR 60.4212, and 40 CFR 60.4213. **(40 CFR 60.4211(g)(1), 40 CFR 60.4211(g)(3))**
5. After December 31, 2008, the permittee may not install stationary compression ignition engines (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines. **(40 CFR 60.4208(a))**
6. The permittee may not operate any engine in FG-SUBPARTIII for 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. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. Each engine in FG-SUBPARTIII may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. The 50 hours per calendar 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))**
7. The permittee shall operate and maintain each engine in FG-SUBPARTIII to meet the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. **(40 CFR 60.4206)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain emergency engines with a non-resettable hours meter to track operating hours. **(40 CFR 60.4209)(a))**
2. The engines in FG-SUBPARTIII must be installed and configured according to the manufacturer's emission related specifications. **(40 CFR 60.4211(b) & (c))**

V. TESTING/SAMPLING

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

1. If the permittee does not install, configure, operate, and maintain an engine and control device in FG-SUBPARTIII according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must conduct performance testing as follows: **(40 CFR 60.4211(g))**
 - a. The permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year after startup of an uncertified engine or if the permittee does not install and configure an engine and control device in FG-SUBPARTIII according to the manufacturer's emission-related written instructions. **(40 CFR 60.4211(g)(1), 40 CFR 60.4211(g)(3))**
 - b. The permittee shall conduct a performance test within one year after changing emission-related settings on an engine or control device in FG-SUBPARTIII in a way that is not permitted by the manufacturer. **(40 CFR 60.4211(g)(1), 40 CFR 60.4211(g)(3))**
 - c. The permittee shall conduct a performance test within one year after EU-EMGEN106.1, EU-EMGEN106.2, EU-EMGEN202.2 or EU-EMGEN501.2 is no longer operated and maintained in accordance with the manufacturer's emission-related written instructions. **(40 CFR 60.4211(g)(3))**
 - d. The permittee shall conduct subsequent performance testing on emergency compression ignition engine engines > 500 HP, every 8,760 hours of engine operation or three years, whichever comes first. **(40 CFR 60.4211(g)(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep fuel supplier certification records or fuel sample test data, including the maximum fuel sulfur content, for each delivery of diesel fuel oil used. **(40 CFR 80.510(b), R 336.1212(3))**
2. The permittee shall keep manufacturer's certification documentation indicating that emergency engines meet the applicable emission limitations contained in 40 CFR 60.4205(b). **(40 CFR 60.4211))**
3. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each engine in FG-SUBPARTIII, on a monthly and 12-month rolling time period basis. The permittee shall document how many hours are spent for emergency and non-emergency operation of each engine in FG-SUBPARTIII, including what classified the operation as emergency or non-emergency. **(40 CFR 60.4211, 40 CFR 60.4214, R 336.1213(3))**
4. If the emergency engine is equipped with a diesel particulate filter, the permittee must keep records of any corrective action taken after the backpressure monitor has indicated that the high backpressure limit of the engine is approached. **(40 CFR 60.4214(c))**
5. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each engine in FG-SUBPARTIII:
 - a. If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that each engine in FG-SUBPARTIII has been maintained according to the manufacturer's emission-related written instructions.
 - b. If non-certified: The permittee shall keep records of a maintenance plan, as required by 40 CFR 60.4243 and maintenance activities. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. For new emergency engines > 500 HP, the permittee shall submit initial notification requirements of 40 CFR 63.6645(f). **(40 CFR 63.6590(b)(1))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR 60 Subpart A and Subpart IIII. **(40 CFR 60 Subparts A and IIII)**
2. 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 of FG-SUBPARTIII, upon startup. **(40 CFR Part 63 Subparts A and ZZZZ)**

FG-SUBPARTJJJJ
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

New Source Performance Standards for Spark Ignition Internal Combustion Engines (ICE) applicable to emergency engines greater than or equal to 100 horsepower (except gasoline or rich burn LPG) that commenced construction (ordered) after June 12, 2006 and were manufactured after January 1, 2009.

Emission Units:

SI internal combustion engine with maximum engine power less than 100 HP

NA

SI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP

EU-EMGEN129, EU-EMGEN207, EU-EMGEN221

SI internal combustion engine greater than 500 HP

EU-EMGEN101, EU-EMGEN108

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	2.0 g/HP-hr	Hourly	EU-EMGEN101, EU-EMGEN129, EU-EMGEN207, EU-EMGEN221 EU-EMGEN108	SC V.1, SC VI.1 SC VI.2 SC VI.3	40 CFR 60.4233(e)
2. CO	4.0 g/HP-hr	Hourly	EU-EMGEN101, EU-EMGEN129, EU-EMGEN207, EU-EMGEN221 EU-EMGEN108	SC V.1 SC VI.1 SC VI.2 SC VI.3	40 CFR 60.4233(e)
3. VOC ^A	1.0 g/HP-hr	Hourly	EU-EMGEN101, EU-EMGEN129, EU-EMGEN207, EU-EMGEN221 EU-EMGEN108	SC V.1 SC VI.1 SC VI.2 SC VI.3	40 CFR 60.4233(e)

^AFor purposes of 40 CFR 60 Subpart JJJJ, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. If the emergency engine is not operated in a certified manner as required by 40 CFR 60, Subpart JJJJ, the permittee must demonstrate compliance as follows:

- a. The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
 - b. The permittee shall conduct performance testing in accordance with 40 CFR 60.4243(a)(2)(i) through (iii) and 40 CFR 60.4244. **(40 CFR 60.4243(a)(2), 40 CFR 60.4244)**
2. The permittee must demonstrate compliance with the emission standards specified in 40 CFR 60.4233(e) by operating and maintaining the certified emergency engine, and control device, if any, according to the manufacturer's emission-related written instructions. **(40 CFR 60.4243(a))**
 3. The permittee may only adjust engine settings according to and consistent with the manufacturer's instructions. **(40 CFR 60.4243(a))**
 4. The permittee must comply with applicable requirements specified in 40 CFR Part 1068, Subparts A through D. **(40 CFR 60.4243(a))**

The permittee must operate each engine in FG-SUBPARTJJJJ according to the requirements in 40 CFR 60.4243 (d)(1) through (3). In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart JJJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4243 (d)(1) through (3), is prohibited. If the permittee does not operate an engine in FG-SUBPARTJJJJ according to the requirements in paragraphs 40 CFR 60.4243 (d)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 60 Subpart JJJJ and must meet all requirements for non-emergency engines. **(40 CFR 60.4243(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-SUBPARTJJJJ with a non-resettable hours meter to track the operating hours. **(40 CFR 60.4237)**

V. TESTING/SAMPLING

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

1. If an engine in FG-SUBPARTJJJJ is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a. Conduct an initial performance test to demonstrate compliance with the applicable emission standards in 40 CFR 60.4233(e), within 60 days after achieving the maximum production rate at which the engine will be operated, but not later than 180 days after initial startup of an engine in FG-SUBPARTJJJJ, or within one year after the engine is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after changing emission-related settings in a way that is not permitted by the manufacturer.
 - b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.
 - c. Conduct subsequent performance testing on engines greater than 500 HP every 8,760 hours of engine operation or every three years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.

If a performance test is required, 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 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 Technical Programs Unit and District Office within 60 days following the last date of the test.² **(40 CFR 60.8, 40 CFR 60.4243(a), 40 CFR 60.4244, 40 CFR 60.4245, 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, in a satisfactory manner, records the manufacturer's emission-related written instructions and records demonstrating that each engine in FG-SUBPARTIII has been maintained according to the manufacturer's emission-related written instructions. **(40 CFR 60.4243(a))**
2. The permittee shall keep manufacturer certification documentation indicating that emergency engines meet the applicable emission limitations contained in 40 CFR 60.4233(e). **(40 CFR 60.4245(a)(3))**
3. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each engine in FG-SUBPARTIII, on a monthly and 12-month rolling time period basis. The permittee shall document how many hours are spent for emergency and non-emergency operation of each engine in FG-SUBPARTIII, including what classified the operation as emergency or non-emergency. **(40 CFR 60.4245(b), R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. For new emergency engines > 500 HP, the permittee shall submit initial notification requirements of 40 CFR 63.6645(f). **(40 CFR 63.6590(b)(1))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee must operate and maintain the emergency engine that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. **(40 CFR 60.4234)**
2. The permittee shall comply with the applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR 60, Subpart A and Subpart JJJJ. **(40 CFR 60, Subparts A and JJJJ)**
3. The permittee shall comply with the applicable provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart A and Subpart ZZZZ, by the dates specified in 40 CFR 63.6595. **(40 CFR 63 Subparts A and ZZZZ)**

FG-BOILERSBLDG107
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Three natural gas-fired boilers with a maximum nameplate heat input capacity of 108 MMBtu/hr (subject to NSPS Db and NESHAP DDDDD).

Emission Units: EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	0.064 lb/MMBtu heat input ²	30-day average	Each boiler: EU-Boiler1-107 EU-Boiler2-107 EU-Boiler3-107	SC VI.1	40 CFR 60.44b(a)
2. NOx	34.0 tpy ²	12-month rolling time period as determined at the end of each calendar month.	Combined for all three boilers: EU-Boiler1-107 EU-Boiler2-107 EU-Boiler3-107	SC VI.1	R336.1205(1) R 336.2803 R 336.2804

Test Protocol shall specify averaging time

II. MATERIAL LIMITS

1. The permittee shall burn only natural gas in each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107.² **(R 336.1201(3), 40 CFR 60.44b(a))**
2. The combined natural gas usage for all three boilers in FG-BOILERS107 (EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107) shall not exceed 1050 million cubic feet per 12-month rolling time period as determined at the end of each calendar month.² **(R 336.1205, R 336.2802, 40 CFR 52.21)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall operate a continuous oxygen trim system on each boiler, EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107, that maintains an optimum air to fuel ratio and conduct a tune-up of each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107 every five years as specified in 40 CFR 63.7540 (a)(10)(i) through (vi) as applicable.

40 CFR 63.7540(a)(10)

- i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.
- ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

- iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
 - iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject.
 - v. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
 - vi. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540.
 - A. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater.
 - B. A description of any corrective actions taken as a part of the tune-up; and
 - C. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.² **(40 CFR 63.7540 (a)(10) and (12))**
2. The permittee must meet the requirements in paragraph 63.7500(e). The permittee must meet these requirements at all times the affected unit is operating, except as provided in paragraph 63.7500(f).² **(40 CFR 63.7500(e))**
 3. The permittee must meet the work practice standard in 40 CFR Part 63, Subpart DDDDD Table 3 that applies to the boiler or process heater, for each gas 1 boiler or process heater at the source.² **(40 CFR 63.7500(a)(1))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor and record the daily natural gas usage rate in FG-BOILERSBLDG107, on a monthly basis, in cubic feet per month.² **(R 336.1205, R 336.2802)**
2. The permittee shall not operate each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107 unless the low NO_x burners and flue gas recirculation system are installed, maintained, and operated in a satisfactory manner.² **(R 336.1205, R 336.2803, R 336.2804)**

V. TESTING/SAMPLING

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

1. Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup, the permittee shall verify NO_x emission rates from each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107, as required by federal Standards of Performance for New Stationary Sources, by testing at owner's expense, in accordance with 40 CFR Part 60 Subparts A and Db. The permittee shall notify the AQD District Supervisor in writing within 15 days of the date of commencement of trial operation in accordance with 40 CFR 60.7(a)(3). Stack testing procedures and the location of stack testing ports shall be in accordance with the applicable federal Reference Methods, 40 CFR Part 60 Appendix A. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. 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.² **(40 CFR Part 60 Subpart Db)**
2. For new or reconstructed affected sources (as defined in 40 CFR 63.7490), the permittee must demonstrate initial compliance with the applicable work practice standards in Table 3 to this subpart within the five-year schedule as specified in 40 CFR 63.7515(d) following the initial compliance date specified in 40 CFR 63.7495(a). Thereafter, the permittee is required to complete the applicable five-year tune-up as specified in 40 CFR 63.7515(d). **(40 CFR 63.7510(g))**

3. The permittee must conduct a five-year performance tune-up according to 40 CFR 63.7540(a)(12). Each five-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in 40 CFR 63.7490), the first five-year tune-up must be no later than 61 months after the initial startup of the new or reconstructed affected source.² **(40 CFR 63.7515(d))**

VI. MONITORING/RECORDKEEPING

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

1. Except as specified in SC VI.2, the permittee shall continuously monitor and record, in a satisfactory manner, the NO_x emissions and the O₂, or CO₂, emissions from each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107. The permittee shall operate each Continuous Emission Monitoring System (CEMS) to meet the timelines, requirements and reporting detailed in Appendix 3 and shall use the CEMS data for determining compliance with SC I.1.² **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR Part 60 Subpart Db)**
2. As an alternative to the compliance method specified in SC VI.1, the permittee may demonstrate compliance by monitoring each boiler's (EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107) operating conditions and predicting NO_x emission rates in a satisfactory manner. The permittee shall submit a plan that identifies the operating conditions to be monitored and the records to be maintained. The permittee shall operate each Predictive Emission Monitoring System (PEMS) to meet the timelines, requirements and reporting detailed in Appendix 3 and shall use the PEMS data for determining compliance with SC I.1.² **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR Part 60 Subpart Db)**
3. The permittee shall keep monthly natural gas usage records for FG-BOILERSBLDG107, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis, and a 12-month rolling time period basis. 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) & (b), R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.49b(d)(2))**
4. The permittee shall keep, in a satisfactory manner, records of the fuel receipts from the fuel supplier that certify that the natural gas meets the definition of natural gas defined in 40 CFR 60.41b for FG-BOILERSBLDG107 on file at the facility and make them available to the Department upon request.² **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) and (d), 40 CFR Part 60 Subpart Db, 40 CFR 60.49b(r)(1))**
5. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit. This information shall include, but shall not be limited to the following:
 - a. Compliance tests and any testing required under the special conditions of this permit.
 - b. Monitoring data.
 - c. All records required by 40 CFR 60.7 and 60.49b.
 - d. All calculations necessary to show compliance with the limits contained in this permit.

All of the above information shall be stored in a format acceptable to the Air Quality Division and shall be consistent with the requirements of 40 CFR 60.7(f).² **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.1912, 40 CFR 52.21(c) & (d), 40 CFR 60.7(f), 40 CFR Part 60 Subpart Db)**

6. The permittee must keep records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555: **(40 CFR 63.7555(a))**
 - a. A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status.² **(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))**
7. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to this subpart, and uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under Part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of Part 63 or part 60, 61, or 65, the permittee

must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies.² **(40 CFR 63.7555(h))**

8. The permittee must maintain records in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).² **(40 CFR 63.7560(a))**
9. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.² **(40 CFR 63.7560(b))**
10. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining three years.² **(40 CFR 63.7560(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107.² **(R 336.1201(7)(a))**
5. The permittee shall submit the following notifications to the Department in accordance with the federal National Emissions Standards for Hazardous Air Pollutants, 40 CFR 63.7545:
 - a. The permittee shall submit to the Administrator all of the notifications in 40 CFR 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107 by the dates specified.
 - b. As specified in 40 CFR 63.9(b)(4) and (5), if you startup your new or reconstructed affected source on or after January 31, 2013, the permittee shall submit an Initial Notification not later than 15 days after the actual date of startup of each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107.² **(40 CFR 63.7545)**
6. The permittee must submit each report in **Table 9** to 40 CFR 63 Subpart DDDDD that applies.² **(40 CFR 63.7550(a))**
7. For units that are subject only to a requirement to conduct an annual, biennial, or five-year tune-up according to 40 CFR 63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, the permittee may submit only an annual, biennial, or five-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, instead of a semi-annual compliance report. **(40 CFR 63.7550(b))**
 - 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 June 30 or December 31, whichever date is the first date that occurs at least 180 days (or one, two, or five years, as applicable, if submitting an annual, biennial, or five-year compliance report) after the compliance date that is specified for the source in 40 CFR 63.7495.² **(40 CFR 63.7550(b)(1))**
 - b. The first compliance report must be postmarked or submitted no later than March 15 following the compliance period ending December 31. **(40 CFR 63.7550(b)(2); 40 CFR 63.10(a)(5))**

- c. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and five-year compliance reports must cover the applicable one, two, or five-year periods from January 1 to December 31.² **(40 CFR 63.7550(b)(3))**
 - d. Each subsequent compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and five-year compliance reports must be postmarked or submitted no later than January 31.² **(40 CFR 63.7550(b)(4)); 40 CFR 63.10(a)(5)**
8. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule.² **(40 CFR 63.7550(c))**
 - a. If the facility is subject to the requirements of a tune up, they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii) and (xiv) of 40 CFR 63.7550.² **(40 CFR 63.7550(c)(1))**
 9. The permittee must submit the reports according to the procedures specified in paragraph (h)(3) of 40 CFR 63.7550.² **(40 CFR 63.7550(h))**
 10. The permittee's applicable Reporting Requirements are in 40 CFR Part 63, Subpart DDDDD Table 9.² **(40 CFR 63.7550)**

See Appendix 3

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVN1	42.1 ²	42 ²	R 336.1201(3)
2. SVN2	42.1 ²	42 ²	R 336.1201(3)
3. SVN3	42.1 ²	42 ²	R 336.1201(3)

IX. OTHER REQUIREMENT(S)

4. 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 DDDDD for Industrial, Commercial and Institutional Boilers and Process Heaters by the compliance date.² **(40 CFR Part 63, Subparts A and DDDDD)**
5. If the permittee has a new or reconstructed boiler or process heater, then the permittee must comply with 40 CFR 63 Subpart DDDDD upon startup of the boiler or process heater.² **(40 CFR 63.7495(a))**
6. The permittee must comply with the applicable General Provisions in 40 CFR 63.1 through 63.15 that apply to this source per 40 CFR Part 63, Subpart DDDDD Table 10.² **(40 CFR 63.7565)**

Footnotes:

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

**FG-BOILERSCL
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Natural gas-fired boilers used for creating climatic conditions to conduct physical analysis of vehicles and its components. Boilers are also used to provide comfort heating.

Emission Units: EU-BOILER1CL, EU-BOILER2CL

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))**

1. The permittee shall only burn natural gas in each climatic boiler. **(R 336.1213(3))**
2. The permittee shall record the amount of fuel combusted in each climatic boiler each calendar month. **(40 CFR 60, Subpart Dc, Section 60.48c(g))**
3. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the boilers. **(40 CFR 60, Subpart A, Section 60.7(b))**

VII. REPORTING

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

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the small industrial-commercial-institutional steam generating units NSPS, 40 CFR 60, Subpart Dc, and Subpart A. **(40 CFR 60, Subpart A and Dc)**

**FG-BOILERMACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Natural gas-fired and dual fuel boilers and process heaters subject to 40 CFR 63, Subpart DDDDD.

Unit designed to burn gas 1 subcategory includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition.

Emission Units:

Less than 5 MMBtu/hr	EU-MISCBOIL7000(1-3), EU-MISCBOILGAE(1-2)
Equal to or greater than 5 MMBtu/hr and less than 10 MMBtu/hr	EU-MISCBOILMTS(1-2)
Equal to or greater than 10 MMBtu/hr	EU-BOILER1CL, EU-BOILER2CL

POLLUTION CONTROL EQUIPMENT

NA

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, as stated in SC II.1.a below, unless as identified and in compliance with SC VII.9 and SC VII.10 and SC IX.6. **(40 CFR 63.7499(I), 40 CFR 63.7575)**
 - a. Unit designed to burn gas 1 subcategory includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition.

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must meet the requirements in paragraphs (a)(1) and (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) and (e) of 40 CFR 63.7500, stated in SC III.2. The permittee must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f) of 40 CFR 63.7500, stated in SC III.4. **(40 CFR 63.7500(a))**
 - a. The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source. **(40 CFR 63.7500(a)(1))**
 - b. At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490), 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))**

2. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards. **(40 CFR 63.7500(b))**
3. The above standards apply at all times the affected unit is operating, except during periods of startup and shutdown. **(40 CFR 63.7500(f))**
4. For startup and shutdown, the permittee must meet the work practice standards according to items 5 and 6 of Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7540(d))**
5. The permittee must complete an initial tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.4, no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.1. The permittee must complete the one-time energy assessment specified in Table 3 of 40 CFR Part 63, Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.1. **(40 CFR 63.7510(e))**
6. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.4.a; biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.4.b; or five-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.4.c. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each five-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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. 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 the permittee 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. If the permittee uses an alternative fuel in any unit in FG-BOILERMACT, other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 63 or Parts 60, 61, or 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. **(40 CFR 63.7555(h))**

3. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**
4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
5. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining three years. **(40 CFR 63.7560(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.7 through SC VII.9, and in Subpart A of 40 CFR 63. **(40 CFR 63.7495(d))**
5. The permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted a tune-up of each unit in FG-BOILERMACT. **(40 CFR 63.7530(d))**
6. The permittee must include with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to Table 3 of 40 CFR Part 63, Subpart DDDDD, and that the assessment is an accurate depiction of the facility at the time of the assessment. **(40 CFR 63.7530(e))**
7. The permittee must report each instance in which they did not meet each emission limit and operating limit in Tables 1 through 4 of 40 CFR 63 Subpart DDDDD that applies. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.7550. **(40 CFR 63.7540(b))**
8. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. **(40 CFR 63.7545(a))**
9. If the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545, as listed below. **(40 CFR 63.7545(f))**
 - a. Company name and address. **(40 CFR 63.7545(f)(1))**
 - b. Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
 - c. Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. **(40 CFR 63.7545(f)(3))**
 - d. Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
 - e. Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**

10. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30 days of the switch/change. The notification must identify: **(40 CFR 63.7545(h))**
 - a. The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**
 - b. The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**
 - c. The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**
11. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. **(40 CFR 63.7550(a))**
12. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, stated in SC VII.15, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. For units that are subject only to a requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC X.14.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.4.b, or five-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.4.c, and not subject to emission limits or Table 4 operating limits, the permittee may submit only an annual, biennial, or five-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below, instead of a semiannual compliance report. **(40 CFR 63.7550(b))**
 - a. The first semiannual 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, stated in SC IX.1, and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.1. If submitting an annual, biennial, or five-year compliance report, 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 December 31 within one, two, or five years, as applicable, after the compliance date. **(40 CFR 63.7550(b)(1))**
 - b. The first semiannual compliance report must be postmarked or submitted no later than September 15 or March 15, 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, stated in SC IX.1. The first annual, biennial, or five-year compliance report must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(2), (40 CFR 63.10(a)(5))**
 - c. Each subsequent semiannual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and five-year compliance reports must cover the applicable one, two, or five-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**
 - d. Each subsequent semiannual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and five-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), (40 CFR 63.10(a)(5))**
13. The first and subsequent compliance reports may be submitted according to the dates specified in SC VII.2 for semiannual ROP reporting. **(40 CFR 63.7550(b)(5))**
14. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule. **(40 CFR 63.7550(c))**
 - a. If the facility is subject to the requirements of a tune up, the permittee must submit a compliance report with the information in SC VII.14 (a)(i) through (iv) as follows: **(40 CFR 63.7550(c)(1))**
 - i. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**

- ii. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - iii. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.4.a, biennial tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.4.b, or five-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.4.c. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a five-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
15. The permittee must submit the reports according to the procedures specified in paragraphs (h) of 40 CFR 63.7550, as listed below. **(40 CFR 63.7550(h))**
- a. The permittee must submit all reports required by Table 9 of 40 CFR Part 63, Subpart DDDDD electronically to the EPA via the CEDRI (CEDRI can be accessed through the EPA's CDX). The permittee must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI website (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. 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 permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The permittee must begin submitting reports via CEDRI no later than 90-days after the form become available in CEDRI. **(40 CFR 63.7550(h)(3))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

- 1. The permittee must comply with 40 CFR Part 63, Subpart DDDDD no later than:
 - a. January 31, 2016 for existing boilers or process heaters (EU-BOILER1CL, EU-BOILER2CL), except as provided in 40 CFR 63.6(i).
 - b. April 1, 2013, or upon startup, whichever is later, for new or reconstructed boilers or process heaters (EU-MISCBOIL-7000 (1-3), EU-MISCBOIL-GAE (1-2), EU-MISCBOIL-MTS (1-2)). **(40 CFR 63.7495)**
- 2. The permittee must be in compliance with the emission limits, work practice standards, and operating limits of 40 CFR Part 63, Subpart DDDDD. These emission and operating limits apply at all times when the affected unit is operating except for the periods noted in 40 CFR 63.7500(f), stated in SC III.3. **(40 CFR 63.7505(a))**
- 3. For affected sources (as defined in 40 CFR 63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.4.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.4.d, for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**
- 4. The permittee must demonstrate continuous compliance with the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in paragraphs (a)(10) through (13) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a))**
 - a. If the boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, the permittee must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. The tune-up must be conducted while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. **(40 CFR 63.7540(a)(10))**

- i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
- ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**
- iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. **(40 CFR 63.7540(a)(10)(iii))**
- iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
- v. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**
- vi. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a)(10)(vi))**
 - A. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
 - B. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
 - C. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**
 - D. If the boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in paragraph (a)(12) of 40 CFR 63.7540), the permittee must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. **(40 CFR 63.7540(a)(11))**
 - E. If the boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to five million Btu per hour and the unit is in the units designed to burn gas 1 subcategory, the permittee must conduct a tune-up of the boiler or process heater every five years as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. The permittee may delay the burner inspection specified in paragraph (a)(10)(i) of 40 CFR 63.7540 until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every five years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. **(40 CFR 63.7540(a)(12))**
 - F. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
5. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 applies to the permittee. **(40 CFR 63.7565)**

6. If the permittee has switched fuels or made a physical change to the boiler or process heater that resulted in the applicability of a different subcategory after the compliance date of this subpart, the permittee must be in compliance with the applicable existing source provisions of this subpart on the effective date of the fuel switch or physical change. **(40 CFR 63.7495 (h))**

Footnotes:

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

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

E. NON-APPLICABLE REQUIREMENTS

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

APPENDICES

Appendix 1. Acronyms and Abbreviations

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

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

Appendix 2. Schedule of Compliance

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

Appendix 3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FG-BOILERSBLDG107 SC VI.1 and 2:

NO_x Monitoring Continuous Emission Monitoring System (CEMS) and Predictive Emission Monitoring System (PEMS) Requirements

1. Within 30 calendar days after commencement of trial operation, the permittee shall submit two copies of a Monitoring Plan to the AQD, for review and approval. The Monitoring Plan shall include drawings or specifications showing proposed locations and descriptions of the required CEMS/PEMS.
2. Within 150 calendar days after commencement of trial operation, the permittee shall submit two copies of a complete test plan for the CEMS/PEMS to the AQD for approval.
3. Within 180 calendar days after commencement of trial operation, the permittee shall complete the installation and testing of the CEMS/PEMS.
4. Within 60 days of completion of testing, the permittee shall submit to the AQD two copies of the final report demonstrating the CEMS/PEMS complies with the requirements of the corresponding Performance Specifications (PS) in the following table.

Pollutant	Applicable PS
NO _x	2
O ₂ and CO ₂	3
PEMS	16

5. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations.
6. The CEMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and PS 2 and 3 of Appendix B to 40 CFR Part 60. If a PEMS is installed in lieu of a CEMS, the PEMS shall be installed, maintained, and operated in accordance with PS 16 of Appendix B to 40 CFR Part 60, as proposed or promulgated.
7. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS set forth in Appendix F of 40 CFR Part 60. If a PEMS is installed in lieu of a CEMS, the permittee shall perform the Quality Assurance Procedures of the PEMS set forth in PS 16 of Appendix B to 40 CFR Part 60, as proposed or promulgated. Within 30 days following the end of each calendar quarter, the permittee shall submit the results to the AQD in the format of the data assessment report (Figure 1, Appendix F).
8. In accordance with 40 CFR 60.7(c) and (d), the permittee shall submit two copies of an excess emission report (EER) and summary report in an acceptable format to the AQD, within 30 days following the end of each calendar quarter. The Summary Report shall follow the format of Figure 1 in 40 CFR 60.7(d). The EER shall include the following information:
 - a. A report of each exceedance above 0.20 lb NO_x/MMBtu. This includes the date, time, magnitude, cause and corrective actions of all occurrences during the reporting period.

- b. A report of all periods of CEMS/PEMS downtime and corrective action.
- c. A report of the total operating time of each boiler EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107 during the reporting period.
- d. A report of any periods that the CEMS/PEMS exceeds the instrument range.
- e. If no exceedances or CEMS/PEMS downtime occurred during the reporting period, the permittee shall report that fact.

The permittee shall keep all monitoring data on file for a period of at least five years and make them available to the AQD upon request.

Appendix 4. Recordkeeping

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

Appendix 5. Testing Procedures

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

Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B4049-2014. 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-B4049-2014a is being reissued as Source-Wide PTI No. MI-PTI-B4049-2019a.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
102-16	201800136*	Incorporate permit conditions from PTI No. 102-16 into the Title V Permit.	EU-EMGEN107, FG-BOILERSBLDG107
160-11B	201500063/ September 1, 2015	Incorporate Permit to Install (PTI) No. 160-11B. The Warren Tech Center proposes to install a state-of-the-art, computer server facility, in order to consolidate and upgrade its corporate information-technology (IT) infrastructure. Thirteen emergency engines will be installed to support the server facility. The project was originally permitted under PTI 160-11 on February 29, 2012. The company proposed increasing the size of the four mechanical engines under PTI 160-11A which was issued on July 13, 2012. The entire project underwent review for both applications, so both were PSD for nitrogen oxides (NOx). No comments were received during the public comment period for either PTI.	FG-BACKUPGENSBLDG206

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
		<p>PTI No. 160-11B is to increase the permitted size of the DRUPs engines from 3010 kW to 3490 kW.</p> <p>PTI No. 160-11B required public comment because it is PSD for NOx. The public comment period began on December 12, 2014 and ended on January 13, 2015. No comments were received. A hearing was not requested, and therefore was not held.</p>	

Appendix 7. Emission Calculations

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

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

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

B. Other Reporting

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