

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

EFFECTIVE DATE: April 15, 2015

ISSUED TO

**Western Michigan University**

State Registration Number (SRN): K2131

LOCATED AT

1903 West Michigan, Kalamazoo, Michigan 49008

**RENEWABLE OPERATING PERMIT**

Permit Number: MI-ROP-K2131-2015

Expiration Date: April 15, 2020

Administratively Complete ROP Renewal Application Due Between October 15, 2018 and  
October 15, 2019

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-K2131-2015

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 Environmental Quality

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Mary A. Douglas, Kalamazoo District Supervisor

## TABLE OF CONTENTS

<b>A. GENERAL CONDITIONS.....</b>	<b>4</b>
Permit Enforceability .....	4
General Provisions.....	4
Equipment & Design .....	5
Emission Limits.....	5
Testing/Sampling .....	5
Monitoring/Recordkeeping .....	6
Certification & Reporting .....	6
Permit Shield .....	7
Revisions .....	8
Reopenings.....	8
Renewals.....	9
Stratospheric Ozone Protection .....	9
Risk Management Plan.....	9
Emission Trading .....	9
Permit To Install (PTI) .....	10
<b>B. SOURCE-WIDE CONDITIONS .....</b>	<b>11</b>
<b>C. EMISSION UNIT CONDITIONS .....</b>	<b>12</b>
EMISSION UNIT SUMMARY TABLE.....	12
EUPABOILER-6.....	15
EU-ENGINEERENT-01 .....	17
EU-02-PEAKGEN .....	20
<b>D. FLEXIBLE GROUP CONDITIONS.....</b>	<b>22</b>
FLEXIBLE GROUP SUMMARY TABLE.....	22
FGBOILERS9&10.....	23
FGPBTUHR-78.....	27
FG-NSPS-III.....	30
FG-NSPS-JJJJ .....	35
FG-EMGEN-GAS.....	41
FG-EMGEN-OIL.....	44
FGPARTSWASH .....	48
FGRULE 290 .....	50
<b>E. NON-APPLICABLE REQUIREMENTS .....</b>	<b>53</b>
<b>APPENDICES .....</b>	<b>54</b>
Appendix 1. Abbreviations and Acronyms.....	54
Appendix 2. Schedule of Compliance.....	55
Appendix 3. Monitoring Requirements .....	55
Appendix 4. Recordkeeping .....	55
Appendix 5. Testing Procedures .....	55
Appendix 6. Permits to Install.....	55
Appendix 7. Emission Calculations .....	55
Appendix 8. Reporting .....	56

## **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 Environmental Quality (MDEQ) or his or her designee.

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

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

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

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

## A. GENERAL CONDITIONS

### Permit Enforceability

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

### General Provisions

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

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

### **Equipment & Design**

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).<sup>2</sup> **(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<sup>2</sup> **(R 336.1301(1))**:
  - a. A 6-minute average of 20 percent opacity, except for one 6-minute average per hour of not more than 27 percent opacity.
  - b. A limit specified by an applicable federal new source performance standard.

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

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
  - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.<sup>1</sup> **(R 336.1901(a))**
  - b. Unreasonable interference with the comfortable enjoyment of life and property.<sup>1</sup> **(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).<sup>2</sup> **(R 336.2001)**
14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**
15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

## Monitoring/Recordkeeping

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

## Certification & Reporting

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

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

## Permit Shield

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

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

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

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

### Revisions

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

### Reopenings

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



## Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(8))**

## Stratospheric Ozone Protection

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

## Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR, Part 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR, Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
39. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall comply with the requirements of 40 CFR, Part 68, no later than the latest of the following dates as provided in 40 CFR, Part 68.10(a):
- June 21, 1999,
  - Three years after the date on which a regulated substance is first listed under 40 CFR, Part 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. <sup>2</sup> **(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. <sup>2</sup> **(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, MDEQ. <sup>2</sup> **(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, MDEQ, 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. <sup>2</sup> **(R 336.1201(4))**

### **Footnotes:**

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

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

## **B. SOURCE-WIDE CONDITIONS**

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

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

### C. EMISSION UNIT CONDITIONS

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

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

#### EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUPABOILER-6	65,000 pounds of steam per hour natural gas fired boiler, rated at 88 MMBtu/hr heat input.	01-01-65 01-01-91	NA
EUBOILER9	65,000 pounds of steam per hour natural gas and No. 2 oil fired boiler, rated at 90 MMBtu/hr heat input on gas and 88 MMBtu/hr heat input on oil.	01-01-04	FGBLRS9&10
EUBOILER10	65,000 pph steam generating natural gas boiler with No. 2 fuel oil as backup. Rated at 90 MMBtu/hr on gas and 88 MMBtu/hr on oil.	06-20-09	FGBLRS9&10
EUPBTURBIN-7	Natural gas fired turbine, rated at 60 MMBtu/hr heat input.	07-01-97 01-01-98	FGPBTUHR-78
EUPBTURBIN-8	Natural gas fired turbine, rated at 60 MMBtu/hr heat input.	07-01-97 01-01-98	FGPBTUHR-78
EUPBHRSGEN-7	Natural gas fired heat recovery steam generator with duct burner rated at 85 MMBtu/hr heat input in fresh air firing mode and 50 MMBtu/hr heat input while supplementary firing with the turbine exhaust.	07-01-97	FGPBTUHR-78
EUPBHRSGEN-8	Natural gas fired heat recovery steam generator with duct burner rated at 85 MMBtu/hr heat input in fresh air firing mode and 50 MMBtu/hr heat input while supplementary firing with the turbine exhaust.	07-01-97	FGPBTUHR-78
EU-02-PEAKGEN	The power plant's natural gas fired peaking and black start generator. It has a heat input capacity of 7.6 MMBtu/hr (771 kW).	10-01-98	NA
EU-13-EMERGEN-01	A 2.34 MMBtu/hr (200 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 1992.	1992	FG-EMGEN-OIL
EU-15-EMERGEN-01	A 2.30 MMBtu/hr (200 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2002.	2002	FG-EMGEN-OIL

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-28-EMERGEN-01	A 1.12 MMBtu/hr (100 kW) emergency generator fired by diesel fuel/No. 2 fuel oil. This was previously EU-42-EMERGEN-01 manufactured in 2003.	2003	FG-EMGEN-OIL
EU-29-EMERGEN-01	A 3.16 MMBtu/hr (300 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2002.	2002	FG-EMGEN-OIL
EU-29-EMERGEN-02	A 1.67 MMBtu/hr (150 kW) emergency generator fired by natural gas manufactured in 2011.	2011	FG-NSPS-JJJJ
EU-42-EMERGEN-02	A 2.69 MMBtu/hr (230kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2007.	2007	FG-NSPS-III
EU-44-EMERGEN-01	A 3.4 MMBtu/hr (350kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2006.	2006	FG-NSPS-III
EU-46-EMERGEN-01	A 0.69 MMBtu/hr (60 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2003.	2003	FG-EMGEN-OIL
EU-56-EMERGEN-01	A 0.81 MMBtu/hr (60 kW) emergency generator fired by propane/natural gas manufactured in 2003.	2003	FG-EMGEN-GAS
EU-59-EMERGEN-01	A 1.58 MMBtu/hr (125 kW) emergency generator fired by natural gas manufactured in 2010.	2010	FG-NSPS-JJJJ
EU-61-EMERGEN-01	A 1.11 MMBtu/hr (100 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 1993.	1993	FG-EMGEN-OIL
EU-71-EMERGEN-01	A 0.81 MMBtu/hr (60 kW) emergency generator fired by propane/natural gas manufactured in 2001.	2001	FG-EMGEN-GAS
EU-72-EMERGEN-01	A 0.81 MMBtu/hr (60 kW) emergency generator fired by propane/natural gas manufactured in 2001.	2001	FG-EMGEN-GAS
EU-73-EMERGEN-01	A 1.29 MMBtu/hr (100 kW) emergency generator fired by propane/natural gas manufactured in 2001.	2001	FG-EMGEN-GAS
EU-75-EMERGEN-01	A 0.69 MMBtu/hr (60 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2001.	2001	FG-EMGEN-OIL
EU-82-EMERGEN-01	A 3.4 MMBtu/hr (350kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 2006.	2006	FG-NSPS-III
EU-107-EMERGEN-1	A 2.69 MMBtu/hr (230 kW) emergency generator fired by diesel fuel/No. 2 fuel oil manufactured in 1998.	1998	FG-EMGEN-OIL
EU-138-EMERGEN-01	A 1,035 bhp (600kW) natural gas fired emergency engine manufactured after January 1, 2009.	01-23-12	FG-NSPS-JJJJ

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-145-EMERGEN-1	A 5.50 MMBtu/hr (500 kW) emergency generator fired by propane/natural gas manufactured in 2004.	2004	FG-EMGEN-GAS
EU-149-EMERGEN-01	A 2.75 MMBtu/hr (250kW) diesel fired emergency generator manufactured in May 2013.	05-13	FG-NSPS-III
EU-ENGINEERENT-01	A portable diesel fired peak shaver engine with a maximum capacity of 1825 kW.	By 11-26-15	NA
EUPARTSWASH	Cold cleaners (6) installed after July 1, 1979.	1979	FGPARTSWASH
EU-90-PRESSR-2	Four-color web fed Rotogravure printing press using solvent based inks.	01-01-87	FGRULE290
EU-90-PRESSF-2	Three-color web Comco flexographic printing press using water based ink.	06-01-99	FGRULE290
EU-27-PAPERMACH	Pilot paper process at Building 27.	01-01-60	FGRULE290

**EUPABOILER-6  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

65,000 pounds of steam per hour natural gas fired boiler, rated at 88 MMBtu/hr heat input.

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. NO <sub>x</sub>	0.140 pound per MMBtu's heat input <sup>2</sup>	Test Protocol*	EUPABOILER-6	SC V.1	<b>R 336.1205(3)</b>
2. NO <sub>x</sub>	12.4 pph <sup>2</sup>	Test Protocol*	EUPABOILER-6	SC V.1	<b>R 336.1205(3)</b>
3. CO	0.292 pound per MMBtu's heat input <sup>2</sup>	Test Protocol*	EUPABOILER-6	SC V.2	<b>R 336.1205(3)</b>
4. CO	25.9 pph <sup>2</sup>	Test Protocol*	EUPABOILER-6	SC V.2	<b>R 336.1205(3)</b>

\*Test protocol shall determine the averaging time.

**II. MATERIAL LIMIT(S)**

1. The permittee shall only burn natural gas in EUPABOILER-6.<sup>2</sup> **(R 336.1205(3))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

NA

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

NA

**V. TESTING/SAMPLING**

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

1. Within the first 12 months of the effective date of this permit, the permittee shall verify NO<sub>x</sub> emission rates from EUPABOILER-6 by testing at owner's expense, in accordance with Department requirements. The testing shall be performed while the boiler load is at 90% or greater than the rated load capacity.<sup>2</sup> **(R 336.1205(3), R 336.2001, R 336.2003, R 336.2004)**
2. Within the first 12 months of the effective date of this permit, the permittee shall verify CO emission rates from EUPABOILER-6 by testing at owner's expense, in accordance with Department requirements. The testing shall be performed while the boiler load is at 90% or greater than the rated load capacity.<sup>2</sup> **(R 336.1205(3), R 336.2001, R 336.2003, R 336.2004)**

See VII. Reporting

**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 use the Energy Management System (EMS) to monitor and record the natural gas usage rate on a monthly basis. The natural gas usage rate shall be recorded using an approved format whereby the previous 12 months of data are displayed.<sup>2</sup> **(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. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2</sup> **(R 336.2001)**
5. No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**
6. Verification of emission rates from the testing in V.1&2 above, 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.<sup>2</sup> **(R 336.2001(5))**

See Appendix 8

**VIII. STACK/VENT RESTRICTION(S)**

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SVBOILERS6&10	132 <sup>2</sup>	185 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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



**EU-ENGINEERENT-01  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

A portable diesel fired peak shaver engine with a maximum capacity of 1825 kW.

**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. NOx	9.2 g/kW-hr <sup>2</sup>	Test Protocol	EU-ENGINEERENT-01	SC V.1 and VI.2	<b>R 336.1205(1)(a)</b>
2. CO	11.4 g/kW-hr <sup>2</sup>	Test Protocol	EU-ENGINEERENT-01	SC V.1 and VI.2	<b>R 336.1205(1)(a)</b>

\*Test protocol shall determine averaging time.

**II. MATERIAL LIMIT(S)**

1. The permittee shall burn only diesel fuel, in EU-ENGINEERENT-01 with the maximum sulfur content of 500 ppm (0.050 percent) by weight.<sup>2</sup> **(R 336.1205(1)(a), R 336.1402(1))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate EU-ENGINEERENT-01 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month.<sup>2</sup> **((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))**
2. The permittee shall install, maintain, and operate EU-ENGINEERENT-01 according to the manufacturer's written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine.<sup>2</sup> **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall equip and maintain EU-ENGINEERENT-01 with a non-resettable hours meter to track the operating hours.<sup>2</sup> **(R 336.1205(1)(a) & (3))**
2. The nameplate capacity of EU-ENGINEERENT-01 shall not exceed 1825 kW, as certified by the equipment manufacturer.<sup>2</sup> **(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 from the district supervisor, the permittee shall verify NOx and CO emission rates from EU-ENGINEERENT-01, by testing at owner's expense, in accordance with Department requirements or by providing documentation as required in SC VI.2.<sup>2</sup> **(R 336.2001, R 336.2003, R 336.2004)**

**See VII. Reporting**

## **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 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(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, a record of testing or manufacturer documentation, as required in SC V.1, indicating that EU-ENGINEERENT-01 meets the applicable emission limitations contained in SC I.1-2. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1205(1)(a) & (3))**
3. The permittee shall monitor and record the hours of operation of EU-ENGINEERENT-01, on a monthly and 12-month rolling time period basis, in a manner that is acceptable to the AQD District Supervisor.<sup>2</sup> **(R 336.1205(1)(a) & (3))**
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-ENGINEERENT-01, demonstrating that the fuel sulfur content meets the requirement of 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.<sup>2</sup> **(R 336.1205(1)(a) & (3), R 336.1402)**
5. The permittee shall keep records of the engine manufacturer, model name, manufactured date, and the dates of installation and removal of the engine each year. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1205(1)(a) & (3))**
6. The permittee shall keep records of the maintenance and operation of EU-ENGINEERENT-01 sufficient to show compliance with SC III.2 above. **(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. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2</sup> **(R 336.2001)**
5. No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**
6. The permittee shall submit written notices to the District Supervisor in compliance with SC IX.2.b-c. **(R 336.1213(3))**

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SV-ENGINEERENT-01	8 <sup>2</sup>	13.5 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENT(S)**

1. EU-ENGINEERENT-01 shall not stay at the same location for more than 12 consecutive months. If EU-ENGINEERENT-01 remains at the same location for more than 12 consecutive months, then EU-ENGINEERENT-01 will become a stationary source and this table will no longer be valid.<sup>2</sup> **(R 336.1201, R 336.1205, R 336.1901, 40 CFR 1068.30)**
2. In the event that EU-ENGINEERENT-01 is removed from this location, the permittee may return, install and operate this equipment at this location pursuant to this Permit to Install, provided that all of the following conditions are met:
  - a. There are no outstanding and unresolved compliance issues, resulting from written notification by the AQD, involving either EU-ENGINEERENT-01 or this location.
  - b. The permittee provides written notification to the AQD District Supervisor, prior to the removal of this equipment, stating the intent to return and operate EU-ENGINEERENT-01 within 12 months of its removal from this location.
  - c. The permittee provides written notification to the AQD District Supervisor, at least one week prior to the return of EU-ENGINEERENT-01, that the equipment is scheduled to return to this location.
  - d. The permittee returns EU-ENGINEERENT-01 to this location within 12 months of its removal.

Notwithstanding the provisions of this condition, the AQD may void this permit during the time that EU-ENGINEERENT-01 is removed from this location if it has reason to believe that, if returned, EU-ENGINEERENT-01 is not likely to operate in compliance with all applicable rules and permit conditions. If this action is taken, the AQD shall notify the permittee, in writing, of the reasons therefore. The voiding of this permit shall be without prejudice to the permittee's right to file a new Permit to Install application.<sup>2</sup> **(Act 451 324.5505, R 336.1201, R 336.1205, R 336.1901)**

3. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to EU-ENGINEERENT-01.<sup>2</sup> **(40 CFR Part 63 Subparts A and ZZZZ)**

**Footnotes:**

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

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

## **EU-02-PEAKGEN EMISSION UNIT CONDITIONS**

### **DESCRIPTION**

The power plant's natural gas fired peaking and black start generator. It has a heat input capacity of 7.6 MMBtu/hr (771 kW).

**Flexible Group ID:** NA

### **POLLUTION CONTROL EQUIPMENT**

Oxidation catalyst

#### **I. EMISSION LIMIT(S)**

NA

#### **II. MATERIAL LIMIT(S)**

NA

#### **III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. 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. **(40 CFR 63.6625(h))**

#### **IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee must install, operate, and maintain an oxidation catalyst to reduce hazardous air pollutant (HAP) emissions from the stationary RICE. **(40 CFR 63.6603(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 must conduct an initial compliance demonstration within 180 days after the compliance date of October 19, 2013, and annual compliance demonstrations with SC IV.1 to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O<sub>2</sub>. **(40 CFR 63.6630(a) & (e), 40 CFR 63.6640(a) & (c))**
2. The permittee must install, operate, and maintain a continuous parameter monitoring system (CPMS) according to 40 CFR 63.6625(b) to continuously monitor catalyst inlet temperature according to the requirements in 40 CFR 63.6625(b); otherwise the permittee must install equipment to automatically shut down then engine if the catalyst inlet temperature exceeds 1350 °F. **(40 CFR 63.6625(b), 40 CFR 63.6630(a) & (e), 40 CFR 63.6635)**

#### **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 record catalyst inlet temperature data according to 40 CFR 63.6625(b), reduce these data to 4-hour rolling averages, and maintain the 4-hour rolling averages within the limitation of >450 °F and ≤1350 °F; otherwise the permittee must immediately shut down the engine if the catalyst inlet temperature exceeds 1350 °F. **(40 CFR 63.6640(a), 40 CFR 63.6655(d))**

2. The permittee shall maintain records of:
  - a. Each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ;
  - b. The occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment or CPMS;
  - c. Results of performance evaluations;
  - d. All required maintenance performed on the air pollution control and monitoring equipment;
  - e. Actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation; and
  - f. All required CPMS measurements, calibration checks, adjustments and maintenance. **(40 CFR 63.6655)**

## **VII. REPORTING**

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must submit a Notification of Compliance Status according to §63.9(h)(2)(ii), within 30 days following the initial compliance demonstration. **(40 CFR 63.6645(h))**
5. The permittee must submit a compliance report semiannually according to 40 CFR §63.6650, containing the results of the annual compliance demonstration, if conducted during the reporting period. If this compliance report is submitted along with, or as part of, the semiannual monitoring report listed under SC VII.2, it shall satisfy any obligation to report the same deviations in the semiannual monitoring report. **(40 CFR 63.6650)**

See Appendix 8

## **VIII. STACK/VENT RESTRICTION(S)**

NA

## **IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to EU-02-PEAKGEN. **(40 CFR 63.6595, 40 CFR 63.6605, 40 CFR Part 63 Subparts A and ZZZZ)**

### **Footnotes:**

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

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

## D. FLEXIBLE GROUP CONDITIONS

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

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

### 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
FGBOILERS9&10	Two natural gas fired boilers with No. 2 fuel oil as backup. Each are rated at 65,000 pounds of steam per hour output, or 90 MMBtu/hr heat input while burning natural gas and 88 MMBtu/hr while burning oil. Each has low NOx burners (design as constructed for their respective installation dates).	EUBOILER9 EUBOILER10
FGPBTUHR-78	A grouping of identical turbine/heat recovery steam generator trains #7 and #8 that share the same applicable requirements.	EUPBTURBIN-7 EUPBTURBIN-8 EUPBHRSGEN-7 EUPBHRSGEN-8
FG-NSPS-III	Emergency generators fired by diesel fuel/No. 2 fuel oil, manufactured/installed on or after 2006.	EU-42-EMERGEN-02 EU-44-EMERGEN-01 EU-82-EMERGEN-01 EU-149-EMERGEN-01
FG-NSPS-JJJJ	Emergency generators fired by natural gas, manufactured/installed on or after 2010.	EU-59-EMERGEN-01 EU-29-EMERGEN-02 EU-138-EMERGEN-01
FG-EMGEN-GAS	Five emergency generators fired by propane/natural gas, manufactured/installed on or prior to 2004.	EU-56-EMERGEN-01 EU-71-EMERGEN-01 EU-72-EMERGEN-01 EU-73-EMERGEN-01 EU-145-EMERGEN-1
FG-EMGEN-OIL	Eight emergency generators fired by diesel fuel/No. 2 fuel oil, manufactured/installed on or prior to 2003.	EU-13-EMERGEN-01 EU-15-EMERGEN-01 EU-28-EMERGEN-01 EU-29-EMERGEN-01 EU-46-EMERGEN-01 EU-61-EMERGEN-01 EU-75-EMERGEN-01 EU-107-EMERGEN-1
FGPARTSWASH	Six cold cleaners installed after July 1, 1979.	EUPARTSWASH
FGRULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	EU-90-PRESSR-2 EU-90-PRESSF-2 EU-27-PAPERMAH

## FGBOILERS9&10

### FLEXIBLE GROUP CONDITIONS

**DESCRIPTION**

Two natural gas fired boilers with No. 2 fuel oil as backup. Each are rated at 65,000 pounds of steam per hour output, or 90 MMBtu/hr heat input while burning natural gas and 88 MMBtu/hr heat input while burning oil. Each has low NOx burners (design as constructed for their respective installation dates).

**Emission Units:** EUBOILER9, EUBOILER10

**POLLUTION CONTROL EQUIPMENT**

The EUBOILER9 and EUBOILER10 are both controlled with a low NOx burner design as constructed for their respective installation dates.

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	35.9 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month	EUBOILER9 EUBOILER10 (Each boiler individually)	SC VI.3	<b>R 336.1205(1)(a) &amp; (3), 40 CFR 52.21(c) &amp; (d)</b>
2. NOx	0.09 lb/MMBtu <sup>2</sup>	Test Protocol* when firing natural gas	EUBOILER9 EUBOILER10	SC V.1	<b>R 336.1205(1)(a) &amp; (3), 40 CFR 52.21(c) &amp; (d)</b>
3. NOx	0.13 lb/MMBtu <sup>2</sup>	Test Protocol* when firing No. 2 Fuel oil	EUBOILER9 EUBOILER10	SC V.1	<b>R 336.1205(1)(a) &amp; (3), 40 CFR 52.21(c) &amp; (d)</b>

\*Test protocol shall determine the averaging time.

4. Visible emissions from each boiler in FGBOILERS9&10, when burning No.2 fuel oil, shall not exceed 20% opacity except as specified in 40 CFR Part 60, Subparts A & Dc.<sup>2</sup> **(40 CFR Part 60 Subparts A and Dc)**

**II. MATERIAL LIMIT(S)**

1. The permittee shall burn only pipeline quality natural gas or No. 2 fuel oil in FGBOILERS9&10.<sup>2</sup> **(R 336.1205(1)(a) & (3))**
2. As allowed by the definition of gas-fired boiler in 40 CFR 63.11237, the permittee shall only burn No. 2 fuel oil during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. The periodic testing on liquid fuel shall not exceed a combined total of 48 hours, for each boiler, during any calendar year.<sup>2</sup> **(40 CFR Part 63 Subpart JJJJJJ)**
3. The sulfur content of all No. 2 fuel oil used in FGBOILERS9&10 shall not exceed 0.05 percent by weight.<sup>2</sup> **(R 336.1205(1)(a) & (3), R 336.1401, 40 CFR 52.21(c) & (d), 40 CFR 60.42c(d))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate either boiler in FGBOILERS9&10, while burning No. 2 fuel oil, for more than 252 hours per 12-month rolling time period as determined at the end of each calendar month.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate any boiler in FGBOILERS9&10 unless the low NOx burner design of each boiler is installed, maintained, and operated in a satisfactory manner.<sup>2</sup> **(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. Within the first 12 months of ROP renewal, the permittee shall verify NOx emission rates from a representative boiler in FGBOILERS9&10, alternating between boilers for subsequent stack tests and starting with EUBOILER9, by testing at owner's expense, in accordance with Department requirements.<sup>2</sup> **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

**See VII. Reporting**

**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.<sup>2</sup> **(R 336.1205, 40 CFR 52.21(c)&(d))**
2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the amount of each fuel used on a monthly and 12-month rolling time period basis in each boiler in FGBOILERS9&10. The permittee shall keep all records on file at the facility and make them available to the Department upon request.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d), 40 CFR 60.48c(g)(2))**
3. The permittee shall calculate and keep, in a satisfactory manner, separate records of monthly and 12-month rolling total NOx mass emissions for all fuels fired, for EUBOILER9 and EUBOILER10, as required by SC I.1, using the lb/MMBtu emission factors specified in SC I.2 and I.3, or emission factors derived from compliance testing for those emission factors as approved by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
4. The permittee shall keep, in a satisfactory manner, records of why each boiler in FGBOILERS9&10 was burning No. 2 Fuel Oil on a calendar year basis, along with the hours of operation each boiler in FGBOILERS9&10 operates for periodic testing while burning No. 2 fuel oil.<sup>2</sup> **(40 CFR Part 63 Subpart JJJJJJ)**
5. The permittee shall keep, in a satisfactory manner, records of the fuel supplier certification for the No. 2 fuel oil sulfur content for each shipment of fuel oil. As a minimum, the fuel supplier certification shall contain:<sup>2</sup>
  - a. The name of the oil supplier;
  - b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and
  - c. The sulfur content or maximum sulfur content of the oil. **(R 336.1205(1)(a) & (3), R 336.1401, 40 CFR 52.21(c) & (d), 40 CFR 60.8, 40 CFR 60.42c(h), 40 CFR 60.44c(h), 40 CFR 60.48c(f)(1))**



6. The permittee shall keep, in a satisfactory manner, records of the hours of operation for each boiler in FGBOILERS9&10 while burning No. 2 Fuel Oil on a monthly and 12-month rolling time period basis as determined at the end of each calendar month, as required by SC III.1.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
7. The permittee shall monitor emissions and operating information for each boiler in FGBOILERS9&10 in accordance with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc. The permittee shall keep records of all source emissions data and operating information on file at the facility and make them available to the Department upon request.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR Part 60 Subparts A and Dc)**

**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. When No. 2 fuel oil is burned in either boiler in FGBOILERS9&10, the permittee shall submit records of the No. 2 fuel oil supplier certifications as specified in SC VI.5, for the No. 2 fuel oil sulfur content, to the AQD District Supervisor in an acceptable format within 30 days following the end of the 6-month period in which the records were collected. The permittee shall include with the submittal a certified statement signed by their responsible official that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d), 40 CFR 60.48c(e)(11), 40 CFR 60.48c(j))**.
5. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2</sup> **(R 336.2001)**
6. No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**

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. SVBOILER9	54 <sup>2</sup>	140 <sup>2</sup>	40 CFR 52.21(c) & (d)
2. SVBOILERS6&10	132 <sup>2</sup>	185 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A & Dc, as they apply to each boiler in FGBOILERS9&10.<sup>2</sup>  
**(40 CFR Part 60 Subparts A and Dc)**

**Footnotes:**

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

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

**FGPBTUHR-78**  
**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

A grouping of identical turbine/heat recovery steam generator trains #7 and #8 that share applicable requirements.

**Emission Units:** EUPBTURBIN-7, EUPBTURBIN-8, EUPBHRSGEN-7, EUPBHRSGEN-8

**POLLUTION CONTROL EQUIPMENT**

The duct burners are controlled with a low NOx burner design as constructed for their respective installation dates.

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO <sub>x</sub>	42 ppmv, corrected to 15% O <sub>2</sub> on a dry gas basis at ISO conditions <sup>2</sup>	Test Protocol* <sup>A</sup>	EUPBTURBIN-7 EUPBTURBIN-8	SC V.1	R 336.2810
2. NO <sub>x</sub>	12.0 pph <sup>2</sup>	Test Protocol* <sup>A</sup>	EUPBTURBIN-7 EUPBTURBIN-8	SC V.1	R 336.2810
3. NO <sub>x</sub>	15.3 pph <sup>2</sup>	Test Protocol* <sup>B</sup>	EUPBHRSGEN-7 EUPBHRSGEN-8	SC V.2	R 336.2810
4. NO <sub>x</sub>	44.7 tpy <sup>2</sup>	12-month rolling time period as determine at the end of each calendar month <sup>B</sup>	EUPBHRSGEN-7 EUPBHRSGEN-8	SC VI.2	R 336.2810
5. CO	50 ppmv corrected to 15% O <sub>2</sub> on a dry gas basis at ISO conditions <sup>2</sup>	Test Protocol* <sup>A</sup>	EUPBTURBIN-7 EUPBTURBIN-8	SC V.1	R 336.2810
6. CO	8.8 pph <sup>2</sup>	Test Protocol* <sup>A</sup>	EUPBTURBIN-7 EUPBTURBIN-8	SC V.1	R 336.2810
7. CO	6.8 pph <sup>2</sup>	Test Protocol* <sup>B</sup>	EUPBHRSGEN-7 EUPBHRSGEN-8	SC V.2	R 336.2810

\* The test protocol shall determine averaging time.

<sup>A</sup> From each individual turbine either operating alone or in conjunction with its respective duct burner

<sup>B</sup> From each individual duct burner, respectively, while operating in fresh air firing mode.

**II. MATERIAL LIMIT(S)**

1. The permittee shall only burn pipeline quality natural gas in FGPBTUHR-78.<sup>2</sup> **(40 CFR Part 60 Subpart GG)**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

NA

**IV. DESIGN/EQUIPMENT PARAMETER(S):**

1. The permittee shall not operate any duct burner in FGPBTUHR-78 unless the low NO<sub>x</sub> burner design of each duct burner is installed, maintained, and operated in a satisfactory manner.<sup>2</sup> **(R 336.2810)**

**V. TESTING/SAMPLING**

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

1. Within the first 12 months of the issuance of this permit, the permittee shall verify NO<sub>x</sub> and CO emission rates from each individual turbine unit, EUPBTURBIN-7 and EUPBTURBIN-8, while either operating alone or in conjunction with its respective duct burner, EUPBHRSGEN-7 or EUPBHRSGEN-8, by testing at owner's expense, in accordance with Department requirements.<sup>2</sup> **(R 336.2001, R 336.2003, R 336.2004, R 336.2810)**
2. Within the first 12 months of the issuance of this permit, unless the AQD District Supervisor waives the requirement, the permittee shall verify NO<sub>x</sub> and CO emission rates from each individual duct burner, EUPBHRSGEN-7 or EUPBHRSGEN-8, while operating in fresh air firing mode by testing at owner's expense, in accordance with Department requirements.<sup>2</sup> **(R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

**See VII. Reporting**

**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.<sup>2</sup> **(R 336.2810)**
2. The permittee shall keep the following information on a monthly bases for FGPBTUHR-78:
  - a. A record of the hours of operation of the duct burners while operating in fresh air firing mode.
  - b. Records of the amount of natural gas used per month and 12-month rolling time period in the turbines and the duct burners, separated out by mode of operation.
  - c. NO<sub>x</sub> emission calculations from the duct burners, while operating in fresh air firing mode, determining the month emission rate in tons per calendar month.
  - d. NO<sub>x</sub> emission calculations from the duct burners, while operating in fresh air firing mode, determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

An emission factor of 0.18 lb/MMBtu heat input shall be used in the calculation for NO<sub>x</sub>, unless an alternate emission factor is approved by the AQD District Supervisor. The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.2810, 40 CFR 60.48c(g)(2))**

3. The permittee shall monitor the total sulfur content of the natural gas used in the turbines following the methods and frequency described in 40 CFR 60.334(h), except as provided in 60.334(h)(3) as stated below<sup>2</sup> **(40 CFR 60.334(h))**:
  - a. The permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbines as required by 40 CFR 60.334(h), if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The permittee shall use one of the following sources of information to make the required demonstration:
    - i. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
    - ii. Representative fuel sampling data which show that the sulfur contest of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to Part 75 of this chapter is required.

- The permittee shall monitor emissions and operating information for any portion of FGPBTUHR-78 in accordance with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A, Dc, and GG. The permittee shall keep records of all source emissions data and operating information on file at the facility and make them available to the Department upon request.<sup>2</sup> **(R 336.2810, 40 CFR Part 60 Subparts A, Dc, and GG)**

**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))**
- No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2</sup> **(R 336.2001)**
- No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**

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. SVPBTURBIN7	54 <sup>2</sup>	136 <sup>2</sup>	R 336.2803, R 336.2804
2. SVPBTURBIN8	54 <sup>2</sup>	136 <sup>2</sup>	R 336.2803, R 336.2804
3. SVPBHRSGEN7	54 <sup>2</sup>	136 <sup>2</sup>	R 336.2803, R 336.2804
4. SVPBHRSGEN8	54 <sup>2</sup>	136 <sup>2</sup>	R 336.2803, R 336.2804

**IX. OTHER REQUIREMENT(S)**

- The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A, Dc, and GG, as they apply to any unit in FGPBTUHR-78.<sup>2</sup> **(40 CFR Part 60 Subparts A, Dc, and GG)**

**Footnotes:**

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

**FG-NSPS-III  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Emergency generators fired by diesel fuel/No. 2 fuel oil, manufactured/installed on or after year of 2006.

**Emission Units:** EU-42-EMERGEN-02, EU-44-EMERGEN-01, EU-82-EMERGEN-01, EU-149-EMEGEN-01

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. SO <sub>2</sub>	0.14 pph <sup>2</sup>	Test protocol	EU-42-EMERGEN-02	SC V.1 and VI.3	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SO <sub>2</sub>	0.18 pph <sup>2</sup>	Test protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.1 and VI.3	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. NO <sub>x</sub>	2.88 pph <sup>2</sup>	Test protocol	EU-42-EMERGEN-02	SC V.2 and V.3	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. NO <sub>x</sub>	7.19 pph <sup>2</sup>	Test protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.2 and V.3	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
5. NO <sub>x</sub>	6.9 g/hp-hr <sup>2</sup>	Test Protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.2 and V.3	40 CFR 60.4205(a)
6. HC	1.0 g/hp-hr <sup>2</sup>	Test Protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.2 and V.3	40 CFR 60.4205(a)
7. CO	8.5 g/hp-hr <sup>2</sup>	Test Protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.2 and V.3	40 CFR 60.4205(a)
8. PM	0.40 g/hp-hr <sup>2</sup>	Test Protocol	EU-44-EMERGEN-01 EU-82-EMERGEN-01	SC V.2 and V.3	40 CFR 60.4205(a)
9. NMHC+NO <sub>x</sub>	3.0 g/hp-hr <sup>2,3</sup>	Test Protocol	EU-42-EMERGEN-02 EU-149-EMEGEN-01	SC V.2 and V.3	40 CFR 60.4205(b)
10. CO	2.6 g/hp-hr <sup>2,3</sup>	Test Protocol	EU-42-EMERGEN-02 EU-149-EMEGEN-01	SC V.2 and V.3	40 CFR 60.4205(b)
11. PM	0.15 g/hp-hr <sup>2,3</sup>	Test Protocol	EU-42-EMERGEN-02 EU-149-EMEGEN-01	SC V.2 and V.3	40 CFR 60.4205(b)

## **II. MATERIAL LIMIT(S)**

1. The permittee shall burn only diesel fuel, in FG-NSPS-III 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% by volume.<sup>2,3</sup> **(R 336.1205(1)(a), R 336.1402(1), 40 CFR 60.4207(b), 40 CFR 80.510(b))**
2. The permittee shall burn only diesel fuel/No. 2 fuel oil in EU-42-EMERGEN-02, EU-44-EMERGEN-01 and EU-82-EMERGEN-01.<sup>2</sup> **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3), R 336.1401)**

## **III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate EU-42-EMERGEN-02, EU-44-EMERGEN-01, or EU-82-EMERGEN-01 for more than 500 hours each per year on a 12-month rolling time period basis as determined at the end of each calendar month.<sup>2</sup> **(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))**
2. In order to be considered an emergency generator, the permittee must operate each generator in FG-NSPS-III according to the requirements below. Any operation other than this is prohibited. If not operated according to these requirements, then the engine must meet all requirements in 40 CFR Part 60, Subpart IIII for non-emergency engines.
  - a. There is no time limit on the use of the emergency engine in emergency situations.
  - b. The permittee may operate each FG-NSPS-III for any combination of the purposes specified in SC III.2.b.i through b.iii below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by SC III.2.c counts as part of this 100 hours per calendar year.
    - i. FG-NSPS-III 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. FG-NSPS-III 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 § 60.17), 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. FG-NSPS-III may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
  - c. The permittee may operate each unit in FG-NSPS-III up to 50 hours per year in non-emergency situations, but these 50 hours of operation are counted towards the 100 hours per calendar year allowed in SC III.2.b. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the requirements in 40 CFR 60.4211(f)(3)(i) are met. **(40 CFR 60.4211(f))**
3. The permittee shall install, maintain, and operate each unit of FG-NSPS-III according to the manufacturer's written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine.<sup>2,3</sup> **(R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 60.4206, 40 CFR 60.4211)**
4. The permittee shall do all the following, except as permitted in 40 CFR 60.4211(g):
  - a. Operate and maintain each engine and control device (if any) in FG-NSPS-III according to the manufacturer's emission-related written instructions;
  - b. Change only those emissions-related settings that are permitted by the manufacturer; and
  - c. Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to FG-NSPS-III. **(40 CFR 60.4211(a))**

5. The permittee shall demonstrate compliance with the emission standards specified in Table 1 of 40 CFR Part 60, Subpart IIII for EU-44-EMERGEN-01 and EU-82-EMERGEN-01 according to one of the following methods::
  - a. Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, to meet the emission standards for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications;
  - b. Keeping records of performance test results for each pollutant for a test conducted on a similar engine and using the same test methods specified in Subpart IIII;
  - c. Keeping records of engine manufacturer data indicating compliance with the standards;
  - d. Keeping records of control device vendor data indicating compliance with the standards;
  - e. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specific in 40 CFR 60.4212, as applicable. **(40 CFR 60.4205(a), 40 CFR 60.4211(b))**
6. The permittee shall not operate EU-42-EMERGEN-02 or EU-149-EMERGEN-01 unless the engine is certified by the manufacturer to meet the applicable emission standards specified in 40 CFR 60.4201(a) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. **(40 CFR 60.4205(b), 40 CFR 60.4211(c))**
7. If the permittee does not install, configure, operate and maintain the engines in FG-NSPS-III and control device(s), if any, according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, compliance must be demonstrated by keeping 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. (In addition, the requirements in SC V.3 must be met.) **(40 CFR 60.4211(g)(2))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall equip and maintain each unit in FG-NSPS-III with non-resettable hours meters to track the operating hours.<sup>2,3</sup> **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4209)**

The nameplate capacity (total capacity) provided in the table below shall not be exceeded for each unit, as certified by the equipment manufacturer.

Equipment	Total Capacity – each unit	Underlying Applicable Requirements
2. EU-42-EMERGEN-02	230 kW <sup>2</sup>	<b>40 CFR Part 72.7</b>
3. EU-44-EMERGEN-01 EU-82-EMERGEN-01	350 kW <sup>2</sup>	<b>40 CFR Part 72.7</b>

**V. TESTING/SAMPLING**

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

1. The permittee shall collect and analyze a No. 2 fuel oil sample once every 12 months or each delivery of fuel oil, whichever is less frequent by testing at owner's expense, in accordance with Department requirements. The permittee shall use an approved EPA test method or equivalent as approved by the Air Quality Division. The permittee shall determine the fuel density, Btu per gallon or Btu/pound, and percent sulfur content of the No. 2 fuel oil. The permittee shall submit a complete report of the test results to the District Supervisor, AQD within 60 days following the last date of the analysis.<sup>2</sup> **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3))**
2. The permittee shall conduct an initial performance test for each unit in FG-NSPS-III 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.<sup>2,3</sup> **(40 CFR 60.4211, 40 CFR 60.4212, 40 CFR Part 60 Subpart IIII)**
3. If the permittee does not install, configure, operate and maintain the engines in FG-NSPS-III and control device(s), if any, according to the manufacturer's emission-related written instructions, or the emission-related



settings are changed in a way that is not permitted by the manufacturer, compliance shall be demonstrated by conducting an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. **(40 CFR 60.4211(g)(2))**

## See VII. Reporting

### 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.<sup>2</sup> **(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, a record of testing required in SC V.2 or manufacturer's certification documentation indicating that each unit in FG-NSPS-III meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subpart III. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2,3</sup> **(40 CFR 60.4211)**
3. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FG-NSPS-III, 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.<sup>2,3</sup> **(R 336.1205(1)(a) & (3), 40 CFR 80.510(b))**
4. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each unit of FG-NSPS-III, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each unit of FG-NSPS-III, including what classified the operation as emergency and how many hours are spent for non-emergency operation.<sup>2,3</sup> **(R 336.1205(1)(a) & (3), 40 CFR 60.4211, 40 CFR 60.4214)**
5. If the permittee does not install, configure, operate and maintain the engines in FG-NSPS-III and control device(s), if any, according to the manufacturer's emission-related written instructions, or the emission-related settings are changed in a way that is not permitted by the manufacturer, records shall be kept as stated in SC III.7 and in accordance with 40 CFR 63.4211(g)(2). **(40 CFR 60.4211(g)(2))**

### 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. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2,3</sup> **(R 336.2001)**
5. No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**

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-42-EMERGEN-02	5.9 <sup>2</sup>	8.3 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
2. SV-44-EMERGEN-01	6 <sup>2</sup>	8.5 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
3. SV-82-EMERGEN-01	6 <sup>2</sup>	8.5 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all provisions of the federal standards of Performance for new Stationary Sources as specified in 40 CFR Part 60, Subparts A & IIII, as they apply to FG-NSPS-IIII.<sup>2,3</sup> **(40 CFR Part 60 Subparts A and IIII)**
2. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to FG-NSPS-IIII.<sup>2,3</sup> **(40 CFR Part 63 Subparts A and ZZZZ)**

**Footnotes:**

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).  
<sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).  
<sup>3</sup> Footnote 2 does not apply to EU-149-EMERGEN-01.

**FG-NSPS-JJJJ  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Emergency generators fired by natural gas, manufactured/installed on or after 2010.

**Emission Units:** EU-29-EMERGEN-02, EU-59-EMERGEN-01, EU-138-EMERGEN-01

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO <sub>x</sub>	0.85 pph <sup>2</sup>	Test Protocol	EU-59-EMERGEN-01	SC V.1	R336.1205(3), R336.2803, R336.2804, 40 CFR 52.21 (c) & (d)
2. NO <sub>x</sub>	0.496 pph <sup>2</sup>	Test Protocol	EU-29-EMERGEN-02	SC V.1	R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. NO <sub>x</sub>	2.0 g/hp-hr <sup>2</sup>	Test Protocol	EU-59-EMERGEN-01 EU-29-EMERGEN-02 EU-138-EMERGEN-01 (each unit individually)	SC V.1 and V.2	40 CFR 60.4233(e)
4. CO	4.0 g/hp-hr <sup>2</sup>	Test Protocol	EU-59-EMERGEN-01 EU-29-EMERGEN-02 EU-138-EMERGEN-01 (each unit individually)	SC V.1 and V.2	40 CFR 60.4233(e)
5. VOC	1.0 g/hp-hr <sup>2</sup>	Test Protocol	EU-59-EMERGEN-01 EU-29-EMERGEN-02 EU-138-EMERGEN-01 (each unit individually)	SC V.1 and V.2	40 CFR 60.4233(e)

6. If the permittee installs a non-certified engine that is greater than or equal to 130 HP the permittee may choose to comply with the following emission standards for that engine: **(Table 1 of 40 CFR Part 60 Subpart JJJJ)**
- 160 ppmvd NO<sub>x</sub> at 15% oxygen and
  - 540 ppmvd CO at 15% oxygen and
  - 86 ppmvd VOC at 15% oxygen (not to include formaldehyde).

**II. MATERIAL LIMIT(S)**

- The permittee shall burn only natural gas in each unit of FG-NSPS-JJJJ.<sup>2</sup> (R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21(c))

### **III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate each unit in FG-NSPS-JJJJ for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month.<sup>2</sup> **(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))**
2. In order to be considered emergency generators, the permittee must operate FG-NSPS-JJJJ according to the requirements below. Any operation other than this is prohibited. If not operated accordingly, then the engine must meet all requirements in 40 CFR Part 60, Subpart JJJJ for non-emergency engines.<sup>2</sup>
  - a. There is no time limit on the use of the emergency engine in emergency situations.
  - b. The permittee may operate each FG-NSPS-JJJJ for any combination of the purposes specified in SC III.2.b.i through b.iii for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by SC III.2.c counts as part of the 100 hours per calendar year.
    - i. FG-NSPS-JJJJ 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. FG-NSPS-JJJJ 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 § 60.17), 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. FG-NSPS-JJJJ may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
  - c. The permittee may operate each unit in FG-NSPS-JJJJ up to 50 hours per year in non-emergency situations, but these 50 hours of operation are counted towards the 100 hours per calendar year allowed in SC III.92.b. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the requirements in 40 CFR 60.4243(d)(3)(i) are met. **(40 CFR 60.4243(d))**
3. The permittee shall operate and maintain each unit in FG-NSPS-JJJJ such that it meets the emission limits in SC I.3, I.4, and I.5 over the entire life of the engine.<sup>2</sup> **(40 CFR 60.4234)**
4. If the permittee is demonstrating compliance with the emission standards in 40 CFR 60.4233(d) or (e) by purchasing a certified engine, compliance shall be demonstrated according to the following:<sup>2</sup>
  - a. The engine shall be certified for the for the same model year; and
  - b. The certified engine and control device shall be operated and maintained according to the manufacturer's emission-related written instructions. The applicable requirements in 40 CFR Part 1068, Subparts A-D shall be met. If the engine settings are adjusted according to and consistent with the manufacturer's instructions, the engine will not be considered out of compliance; or
  - c. If the certified engine is not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered non-certified and compliance shall then be demonstrated per 40 CFR 60.4243(a)(2) as follow:
    - i. For units in FG-NSPS-JJJJ that are greater than or equal to 100 HP and less than or equal to 500 HP, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.
    - ii. For units in FG-NSPS-JJJJ that are greater than 500 HP, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In

addition, the permittee must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. **(40 CFR 60.4243(b)(1))**

5. If the permittee has purchased a non-certified engine, compliance with the emission standards in 40 CFR 60.4233(d) or (e) shall be demonstrated according to the following:<sup>2</sup>
  - a. Testing shall be performed as applicable in 40 CFR 60.4244.
  - b. For units in FG-NSPS-JJJJ that are greater than 25 HP and less than or equal to 500 HP, the permittee shall keep a maintenance plan and to the extent practicable, maintain and operate the unit(s) in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee shall conduct an initial performance test to demonstrate compliance.
  - c. For units in FG-NSPS-JJJJ that are greater than 500 HP, the permittee shall keep a maintenance plan and to the extent practicable, maintain and operate the unit(s) in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee shall conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. **(40 CFR 60.4243(b)(2))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

The nameplate capacity (total capacity) provided in the table below shall not be exceeded for each unit, as certified by the equipment manufacturer.

<b>Equipment</b>	<b>Total Capacity – each unit</b>	<b>Underlying Applicable Requirements</b>
1. EU-59-EMERGEN-01	125 kW <sup>2</sup>	<b>R 336.1205(1)(a) &amp; (3), 40 CFR 60.4230)</b>
2. EU-29-EMERGEN-02	165 kW <sup>2</sup>	<b>R 336.1205(1)(a) &amp; (3), 40 CFR 60.4230)</b>
3. EU-138-EMERGEN-01	1,035 bph <sup>2</sup>	<b>40 CFR 60.4230</b>

4. The permittee shall equip and maintain each unit in FG-NSPS-JJJJ with non-resettable hours meters to track the operating hours.<sup>2</sup> **(R 336.1205(1)(a) & (3), R 336.1225, 40 CFR 60.4237)**
5. The permittee shall not install an engine with a maximum power greater than 19 KW (25 hp) that does not meet the applicable requirements in 40 CFR 60.4233. **(40 CFR 60.4236(c))**
6. If an engine in FG-NSPS-JJJJ is modified or reconstructed the permittee shall comply with the applicable requirements in 40 CFR 60.4233(f) for that engine. **(40 CFR 60.4233(f))**

**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 NOx, CO, and VOC emission rates from each unit in FG-NSPS-JJJJ, by testing at owner’s expense, in accordance with Department requirements.<sup>2</sup> **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall conduct an initial performance test for each unit in FG-NSPS-JJJJ within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4233(e), unless the engines have been certified by the manufacturer as required by 40 CFR Part 60, Subpart JJJJ and the permittee maintains the engine as required by 40 CFR 60.4243(b)(1). If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.<sup>2</sup> **(40 CFR 60.4243, 40 CFR 60.4244, 40 CFR Part 60 Subpart JJJJ)**
3. If the permittee purchases a non-certified engine that is less than or equal to 500 HP or a certified engine that is not operated and maintained according to the manufacturer’s written emissions-related instructions, the permittee shall perform an initial performance test, but the permittee is not required to conduct subsequent

performance testing unless the unit is rebuilt or undergoes major repair or maintenance. A rebuilt unit means an engine that has been rebuilt as that term is defined in 40 CFR 94.11(a). **(40 CFR 60.4243(f))**

## See VII. Reporting

### **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.<sup>2</sup> **(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.2, V3 or manufacturer's certification and maintenance records documenting that each unit in FG-NSPS-JJJJ meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60, Subpart JJJJ. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(40 CFR 60.4245)**
3. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each unit of FG-NSPS-JJJJ, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each unit of FG-NSPS-JJJJ, including what classified the operation as emergency and how many hours are spent for non-emergency operation.<sup>2</sup> **(R 336.1205(1)(a) & (3), 40 CFR 60.4243)**
4. The permittee shall keep records of the following information for each unit in FG-NSPS-JJJJ:<sup>2</sup>
  - a. All notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.
  - b. Maintenance conducted on each unit in FG-NSPS-JJJJ. The records shall adequately demonstrate compliance with either condition III.4 or III.5 above.
  - c. If each unit in FG-NSPS-JJJJ is a certified engine, documentation from the manufacturer that each unit in FG-NSPS-JJJJ is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
  - d. If a unit(s) in FG-NSPS-JJJJ is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that each unit in FG-NSPS-JJJJ meets the emission standards. **(40 CFR 60.4243(a)(1), 40 CFR 60.4245(b)(2), 40 CFR 60.4245(a))**
5. The permittee shall keep records of the hours of operation of each unit in FG-NSPS-JJJJ sufficient to demonstrate compliance with 40 CFR 60.4243(d) and 60.4245(b). **(R 336.1213(3)(b))**
6. For units in FG-NSPS-JJJJ that are greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For units in FG-NSPS-JJJJ that are greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011, that do not meet the standards applicable to non-emergency engines, the permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For units in FG-NSPS-JJJJ that are 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 permittee must keep records of the hours of operation of the engine 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 operation. **(40 CFR 60.4245(b))**

**VII. REPORTING**

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must submit an initial notification as required in 40 CFR 60.7(a)(1), for each unit in FG-NSPS-JJJJ that is greater than or equal to 500 hp and has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231. The notification must include the following information:<sup>2</sup>
  - a. Name and address of the owner or operator;
  - b. The address of the effected source;
  - c. Each unit in FG-NSPS-JJJJ information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
  - d. Each unit in FG-NSPS-JJJJ emission control equipment; and
  - e. Fuel used for each unit in FG-NSPS-JJJJ. **(40 CFR 60.4245(c))**
5. No less than 60 days prior to testing, the permittee must submit a complete stack-testing 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.<sup>2</sup> **(R 336.2001, 40 CFR 60.4245(d))**
6. No less than 7 days prior to the performance test being conducted, the permittee or their authorized agent, shall notify the AQD, in writing, of the time and place of the performance test(s) and who shall conduct them. **(R 336.2001)**

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-59-EMERGEN-01	6 <sup>2</sup>	8 <sup>2</sup>	R336.1225, R336.2803, R336.2804, 40 CFR 52.21 (c) & (d)
2. SV-29-EMERGEN-02	3 <sup>2</sup>	5.8 <sup>2</sup>	R336.1225, R336.2803, R336.2804, 40 CFR 52.21 (c) & (d)
3. SV-138-EMERGEN-1a	8.25 <sup>2</sup>	11.8 <sup>2</sup>	R336.1225, R336.2803, R336.2804, 40 CFR 52.21 (c) & (d)
4. SV-138-EMERGEN-1b	8.25 <sup>2</sup>	11.8 <sup>2</sup>	R336.1225, R336.2803, R336.2804, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to each unit in FG-NSPS-JJJJ.<sup>2</sup> **(40 CFR Part 60 Subparts A and JJJJ)**
2. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to each unit in FG-NSPS-JJJJ.<sup>2</sup> **(40 CFR Part 63 Subparts A and ZZZZ)**

**Footnotes:**

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

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



**FG-EMGEN-GAS  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Five emergency generators fired by propane/natural gas, manufactured/installed on or prior to 2004.

**Emission Units:** EU-56-EMERGEN-01, EU-71-EMERGEN-01, EU-72-EMERGEN-01, EU-73-EMERGEN-01, EU-145-EMERGEN-1

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO <sub>x</sub>	2.53 pph <sup>2</sup>	Test Protocol	EU-56-EMERGEN-01, EU-71-EMERGEN-01, EU-72-EMERGEN-01 (each unit individually)	SC III.2	R 336.1205(3) R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. NO <sub>x</sub>	3.28 pph <sup>2</sup>	Test Protocol	EU-73-EMERGEN-01	SC III.2	R 336.1205(3) R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. NO <sub>x</sub>	3.50 pph <sup>2</sup>	Test Protocol	EU-145-EMERGEN-1	SC III.2	R 336.1205(3) R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

**II. MATERIAL LIMIT(S)**

1. The permittee shall burn only propane/natural gas in FG-EMGEN-GAS.<sup>2</sup> (R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3))

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate each unit in FG-EMGEN-GAS for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month.<sup>2</sup> (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))
2. The permittee shall install, maintain, and operate each unit in FG-EMGEN-GAS according to the manufacturer's written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine.<sup>2</sup> (R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

The nameplate capacity (total capacity) provided in the table below shall not be exceeded for each unit, as certified by the equipment manufacturer.

<b>Equipment</b>	<b>Total Capacity – each unit</b>	<b>Underlying Applicable Requirements</b>
1. EU-56-EMERGEN-01 EU-71-EMERGEN-01 EU-72-EMERGEN-01	60 kW <sup>2</sup>	<b>R 336.1205(1)(a) &amp; (3)</b>
2. EU-73-EMERGEN-01	100 kW <sup>2</sup>	<b>R 336.1205(1)(a) &amp; (3)</b>
3. EU-145-EMERGEN-1	500 kW <sup>2</sup>	<b>R 336.1205(1)(a) &amp; (3)</b>

4. The permittee shall equip and maintain each unit in FG-EMGEN-OIL with non-resettable hours meters to track the operating hours.<sup>2</sup> **(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))**

NA

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(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 unit in FG-EMGEN-GAS, on a monthly and 12-month rolling time period basis, in a manner that is acceptable to the AQD District Supervisor.<sup>2</sup> **(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(1)(a) & (3))**

**VII. REPORTING**

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

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-56-EMERGEN-01	3.5 <sup>2</sup>	4.9 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
2. SV-71-EMERGEN-01 3. SV-72-EMERGEN-01 4. SV-73-EMERGEN-01	3.5 <sup>2</sup>	5.58 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
5. SV-145-EMERGEN-1 6. SV-145-EMERGEN-2	4 <sup>2</sup>	10.58 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

**FG-EMGEN-OIL  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Eight emergency generators fired by diesel fuel/No. 2 fuel oil, manufactured/installed on or prior to 2003.

**Emission Units:** EU-13-EMERGEN-01, EU-15-EMERGEN-01, EU-28-EMERGEN-01, EU-29-EMERGEN-01, EU-46-EMERGEN-01, EU-61-EMERGEN-01, EU-75-EMERGEN-01, EU-107-EMERGEN-1

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. SO <sub>2</sub>	0.12 pph <sup>2</sup>	Test protocol	EU-13-EMERGEN-01	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SO <sub>2</sub>	0.13 pph <sup>2</sup>	Test protocol	EU-15-EMERGEN-01	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. SO <sub>2</sub>	0.14 pph <sup>2</sup>	Test protocol	EU-29-EMERGEN-01 EU-107-EMERGEN-1 of FG-EMGEN-OIL (each unit individually)	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. SO <sub>2</sub>	0.068 pph <sup>2</sup>	Test protocol	EU-28-EMERGEN-01	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
5. SO <sub>2</sub>	0.041 pph <sup>2</sup>	Test protocol	EU-46-EMERGEN-01 EU-75-EMERGEN-01 of FG-EMGEN-OIL (each unit individually)	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
6. SO <sub>2</sub>	0.063 pph <sup>2</sup>	Test protocol	EU-61-EMERGEN-01	SC V.1	R 336.1205(3), R 336.1401, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
7. NO <sub>x</sub>	4.09 pph <sup>2</sup>	Test protocol	EU-13-EMERGEN-01	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
8. NO <sub>x</sub>	2.56 pph <sup>2</sup>	Test protocol	EU-15-EMERGEN-01	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
9. NO <sub>x</sub>	2.80 pph <sup>2</sup>	Test protocol	EU-28-EMERGEN-01	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
10. NO <sub>x</sub>	3.52 pph <sup>2</sup>	Test protocol	EU-29-EMERGEN-01	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
11. NO <sub>x</sub>	4.87 pph <sup>2</sup>	Test protocol	EU-61-EMERGEN-01	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
12. NO <sub>x</sub>	2.06 pph <sup>2</sup>	Test protocol	EU-46-EMERGEN-01 EU-75-EMERGEN-01 of FG-EMGEN-OIL (each unit individually)	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
13. NO <sub>x</sub>	4.66 pph <sup>2</sup>	Test protocol	EU-107-EMERGEN-1	SC III.2	R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

## II. MATERIAL LIMIT(S)

- The permittee shall not burn diesel fuel/No. 2 fuel oil with sulfur content greater than 0.05% in FG-EMERGEN-OIL.<sup>2</sup> (R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3), R 336.1401)
- The permittee shall burn only diesel fuel/No. 2 fuel oil in FG-EMGEN-OIL.<sup>2</sup> (R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3), R 336.1401)

## III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate each unit in FG-EMGEN-OIL for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month.<sup>2</sup> (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 unit in FG-EMGEN-OIL according to the manufacturer's written instructions, or procedures developed by the owner/operator and approved by the engine manufacturer, over the entire life of the engine.<sup>2</sup> (R 336.1205(1)(a) & (3), R 336.1225, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

## IV. DESIGN/EQUIPMENT PARAMETER(S)

The nameplate capacity (total capacity) provided in the table below shall not be exceeded for each unit, as certified by the equipment manufacturer.

Equipment	Total Capacity – each unit	Underlying Applicable Requirements
1. EU-46-EMERGEN-01 EU-75-EMERGEN-01	60 kW <sup>2</sup>	R 336.1205(1)(a) & (3)
2. EU-28-EMERGEN-01 EU-61-EMERGEN-01	100 kW <sup>2</sup>	R 336.1205(1)(a) & (3)
3. EU-13-EMERGEN-01 EU-15-EMERGEN-01	200 kW <sup>2</sup>	R 336.1205(1)(a) & (3)
4. EU-107-EMERGEN-1	230 kW <sup>2</sup>	R 336.1205(1)(a) & (3)
5. EU-29-EMERGEN-01	300 kW <sup>2</sup>	R 336.1205(1)(a) & (3)

- The permittee shall equip and maintain each unit in FG-EMGEN-OIL with non-resettable hours meters to track the operating hours.<sup>2</sup> (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. The permittee shall collect and analyze a No. 2 fuel oil sample once every 12 months or each delivery of fuel oil, whichever is less frequent by testing at owner's expense, in accordance with Department requirements. The permittee shall use an approved EPA test method or equivalent as approved by the Air Quality Division. The permittee shall determine the fuel density, Btu per gallon or Btu/pound, and percent sulfur content of the No. 2 fuel oil. The permittee shall submit a complete report of the test results to the AQD District Supervisor within 60 days following the last date of the analysis.<sup>2</sup> **(R 336.1205(3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1205(1)(a) & (3), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep a complete copy of the diesel fuel/No. 2 fuel oil analysis including the sulfur content in percent, as supplied by the vendor, for each shipment of diesel fuel/No. 2 fuel oil received. The permittee shall keep all records on file at the facility and make them available to the Department upon request.<sup>2</sup> **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(3), R 336.1401)**
3. The permittee shall monitor and record the hours of operation of each unit in FG-EMGEN-OIL, on a monthly and 12-month rolling time period basis, in a manner that is acceptable to the AQD District Supervisor.<sup>2</sup> **(R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d), R 336.1205(1)(a) & (3))**

**VII. REPORTING**

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

See Appendix 8

**VIII. STACK/VENT RESTRICTION(S)**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-13-EMERGEN-01	5 <sup>2</sup>	7 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
2. SV-15-EMERGEN-01	6 <sup>2</sup>	9.16 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
3. SV-28-EMERGEN-01	6 <sup>2</sup>	8.3 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
4. SV-29-EMERGEN-01	6 <sup>2</sup>	12.66 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
5. SV-46-EMERGEN-01	3.5 <sup>2</sup>	7.9 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
6. SV-61-EMERGEN-01	5 <sup>2</sup>	1 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
7. SV-75-EMERGEN-01	3.5 <sup>2</sup>	7.1 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
8. SV-107-EMERGEN-1	5 <sup>2</sup>	7.4 <sup>2</sup>	R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

## **FGPARTSWASH FLEXIBLE GROUP CONDITIONS**

### **DESCRIPTION**

Six cold cleaners installed after July 1, 1979.

**Emission Unit:** EUPARTSWASH

### **POLLUTION CONTROL EQUIPMENT**

NA

### **I. EMISSION LIMIT(S)**

NA

### **II. MATERIAL LIMIT(S)**

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

### **III. PROCESS/OPERATIONAL RESTRICTION(S)**

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

### **IV. DESIGN/EQUIPMENT PARAMETER(S)**

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



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

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

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

NA

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

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

1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions. **(R 336.1213(3))**
2. The permittee shall maintain the following information on file for each cold cleaner **(R 336.1213(3))**:
  - a. A serial number, model number, or other unique identifier for each cold cleaner.
  - b. The date the unit was installed, manufactured or that it commenced operation.
  - c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(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

## FGRULE 290 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:** EU-90-PRESSR-2, EU-90-PRESSF-2, EU-27-PAPERMACH

### 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(a)(i))**
2. Each emission unit that the total uncontrolled or controlled emissions of 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(a)(ii))**:
  - a. For noncarcinogenic 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 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(ii)(A))**
  - b. For noncarcinogenic 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 microgram 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(a)(ii)(B))**
  - c. For carcinogenic 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(a)(ii)(C))**
  - d. The emission unit shall not emit any 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(a)(ii)(D))**
3. Each emission unit that emits only noncarcinogenic particulate air contaminants and other air contaminants that are exempted under Rule 290(a)(i) and/or Rule 290(a)(ii), if all of the following provisions are met **(R 336.1290(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 an exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(a)(iii)(A))**
  - b. The visible emissions from the emission unit are not more than five percent opacity in accordance with the methods contained in Rule 303. **(R 336.1290(a)(iii)(B))**
  - c. The initial threshold screening level for each particulate air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(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)**

**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 DEQ, 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(a)(ii) and (iii). **(R 336.1213(3))**
  - e. 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. **(R 336.1213(3), R 336.1290(c))**
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(b), R 336.1213(3))**
  - b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(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(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))**

**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

## **E. NON-APPLICABLE REQUIREMENTS**

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

## APPENDICES

### Appendix 1. Abbreviations and Acronyms

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

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

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

## Appendix 2. Schedule of Compliance

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

## Appendix 3. Monitoring Requirements

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

## Appendix 4. Recordkeeping

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-K2131-2010. 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-K2131-2010a is being reissued as Source-Wide PTI No. MI-PTI-K2131-2015.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
MI-PTI-K2131-2010a	NA	Source-Wide PTI.	Source-Wide
132-12	Unit has not been installed	Installation of a portable diesel fired peak shaver engine with a maximum capacity of 1825 kW.	EU-ENGINE-01
163-11A		Revisions to change the stack diameter and reflect that there are two identical stacks.	EU-138-EMERGEN-01
22-14		Revisions to Boilers 9 and 10 to make the requirements the same. Revisions to Boilers 6 and 10 to reflect that they share a stack. Changes to FGPBTUHR-78 to delete conditions involving a by-pass.	EUPABOILER-6 EUBOILER9 EUBOILER10 FGPBTUHR-78

## 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 the MDEQ, AQD, Report Certification form (EQP 5736) and MDEQ, 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.