

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

EFFECTIVE DATE: October 31, 2012

ISSUED TO

DETROIT DIESEL CORPORATION

State Registration Number (SRN): A8638

LOCATED AT

13400 West Outer Drive, Detroit, Michigan 48239

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-A8638-2012

Expiration Date: October 31, 2017

Administratively Complete ROP Renewal Application Due Between
April 30, 2016 to April 30, 2017

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-A8638-2012

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

Wilhemina McLemore, Detroit District Supervisor

TABLE OF CONTENTS

AUTHORITY AND ENFORCEABILITY	3
A. GENERAL CONDITIONS.....	4
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. SOURCE-WIDE CONDITIONS	11
C. EMISSION UNIT CONDITIONS	14
EMISSION UNIT SUMMARY TABLE.....	14
EU0086.....	16
EU078.....	19
D. FLEXIBLE GROUP CONDITIONS.....	22
FLEXIBLE GROUP SUMMARY TABLE	22
FGBOILERS	23
FG600-2	25
FGHDCELLS	28
FGNONROADCELLS	30
FGNATGASCELLS.....	32
FGCOLDCLEANERS.....	34
FGRULE287(c)	36
FGRULE290	38
FGRICEMACT	41
E. NON-APPLICABLE REQUIREMENTS	44
APPENDICES	45
Appendix 1. Abbreviations and Acronyms.....	45
Appendix 2. Schedule of Compliance.....	46
Appendix 3. Monitoring Requirements	46
Appendix 4. Recordkeeping	46
Appendix 5. Testing Procedures	54
Appendix 6. Permits to Install.....	54
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 will be identified for each ROP term or condition. All terms and conditions that are included in a PTI, are streamlined or subsumed, 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 federally enforceable Source-Wide PTI No. MI-PTI-A8638-2012 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). **(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. Except as provided in Subrules 2, 3, and 4 of Rule 301, states in part; “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 Rule 301(1)(a) or (b) unless otherwise specified in this ROP.” The grading of visible emissions shall be determined in accordance with Rule 303. **(R 336.1301(1) in pertinent part):**
 - 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.
- 12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
 - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.¹ **(R 336.1901(a))**
 - b. Unreasonable interference with the comfortable enjoyment of life and property.¹ **(R 336.1901(b))**

Testing/Sampling

- 13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner’s or operator’s expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1). **(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(4))**

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. **(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:
- Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
 - Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
 - 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))**
 - Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
 - 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(9))**
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:
- 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))**
 - If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
 - 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))**
 - 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(7))**

Stratospheric Ozone Protection

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

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR, Part 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR, Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
39. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall comply with the requirements of 40 CFR, Part 68, no later than the latest of the following dates as provided in 40 CFR, 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.² **(R 336.1201(1))**
- 44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.² **(R 336.1201(8), Section 5510 of Act 451)**
- 45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, MDEQ.² **(R 336.1219)**
- 46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months, or has been interrupted for 18 months, the applicable terms and conditions from that PTI 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.² **(R 336.1201(4))**

Footnotes:

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

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

B. SOURCE-WIDE CONDITIONS

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

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

SOURCE-WIDE CONDITIONS

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	225 tons per year ²	12 month rolling time period as determined at the end of each calendar month.	All process equipment at the facility including grandfathered and exempt equipment. (*)	Section VI.1, Appendix 7	R 336.1201(3) R 336.1205(3)
2. Hazardous Air Pollutants (HAPs)	9.0 tons per year for any individual HAP	12 month rolling time period as determined at the end of each calendar month.	All process equipment at the facility including grandfathered and exempt equipment. (*)	Section VI.2	R 336.1213(2)
	22.5 tons per year for any combination of HAPS	12 month rolling time period as determined at the end of each calendar month.	All process equipment at the facility including grandfathered and exempt equipment. (*)	Section VI.2	R 336.1213(2)

(*)Equipment includes all process equipment including engine testing dynos, boilers in powerhouse and WWTP, natural gas fired air houses, space heaters and other ovens, emergency pumps and generators, etc.

II. MATERIAL LIMITS:

1. NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. NA

V. TESTING/SAMPLING

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

1. 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 the following records:²
 - a. Diesel fuel usage, in units of thousands of gallons, kept on a monthly basis.
 - b. Natural gas usage, in units of million cubic feet, kept on a monthly basis.
 - c. Calculated NOx emissions, in units of tons, calculated on a 12 month rolling time period basis, as determined at the end of each calendar month.

All calculations shall include the calendar date that calculation was performed, and the emission factors used to estimate emissions. All records shall be maintained in a format acceptable to the District Supervisor.
(R 336.1205(3))

2. The permittee shall maintain the following records for each HAP containing material used at the facility:
 - a. The content of individual and total HAPs, in pounds per gallon, or weight percent.
 - b. The quantity of material applied, in pounds per gallon, or weight percent.
 - c. A record demonstrating how the HAP content was determined. **(R336.1205(3))**
3. Permittee shall calculate and record the facility-wide monthly emissions of each individual and total HAPs, in tons. **(R 336.1205(3))**
4. Permittee shall calculate and record the facility-wide 12 month rolling emissions of each individual and total HAPS, in tons. **(R 336.1205(3))**

See Appendix 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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

1. NA

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

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 Devices)	Installation Date/ Modification Date	Flexible Group ID
EU0086	Series 149/4000 paint booth utilizing conventional spray applicators of water reducible enamel paints and urethane coatings onto Series 149 engines. The process is identified as P146 on SEI database. Controlled by a water curtain.	1/20/1984	NA
EU078	Offline paint booth used for second finishing of engine blocks. It is referred to as process number P151 on SEI database. Controlled by a water curtain.	6/6/1991	NA
EUBOILER1	Boiler #1: Babcock and Wilcox natural gas fired watertube boilers. The rated capacity of the boiler is 72 MMBTU/HR. Identified on the emission inventory database as P244 (formerly called EU001).	7/1/1964	FGBOILERS
EUBOILER4	Boiler #4: Natural gas fired water tube boiler manufactured by Wicks. The rated capacity of the boiler is 48 MMBTU/HR. It is listed as P245 on SEI database (formerly called EU004).	7/1/1958	FGBOILERS
EUBOILER5	Boiler #5: Babcock and Wilcox natural gas fired boiler. The rated capacity of the boiler is 72 MMBTU/HR. Identified on the emission inventory database as P246.	1/1/1966	FGBOILERS
EU600	One robotic paint booth, equipped with dry filters, used to apply coatings to diesel engines. The coatings are air dried.	3/31/2007	FG600-2
EU601	One robotic paint booth, equipped with dry filters, used to apply coatings to diesel engines. The coatings are air dried.	3/31/2007	FG600-2
EU602	One manual paint booth, equipped with dry filters, used to apply coatings to diesel engines. The coatings are air dried.	3/31/2007	FG600-2

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Devices)	Installation Date/ Modification Date	Flexible Group ID
EUHDCELLS	Testing cells/dyno for testing and analyzing heavy duty (on highway) reciprocating engines when combusting diesel fuel. This emission unit includes the emission units listed in the additional information form.	1/21/1988	FGHDCELLS
EUNONROADCELLS	Testing cells/dyno for testing and analyzing nonroad reciprocating engines when combusting diesel fuel.	1/21/1988	FGNONROADCELLS
EUNATGASCELLS	Testing cells/dyno for testing and analyzing reciprocating engines when combusting natural gas or compressed natural gas.	1/21/1988	FGNATGASCELLS
EU840	Oakite tank	1/1/1978	FGCOLDCLEANERS
EU841 – EU899	Miscellaneous metal parts cleaners (i.e. Safely-Kleen washers)	1/1/1992	FGCOLDCLEANERS
EU017	Maintenance spray booth, utilizing airless spraying of water reducible enamel paints used on a non-production basis for surface coating maintenance items throughout the facility.	5/29/1978	FGRULE287(c)
EU019	Engine parts derusting process (D169). Parts cleaning tanks include: hot water rinse, inhibited phosphoric acid (2) cold water rinse (2), soluble rust preventative.	1/14/1988	FGRULE290
EUCOLDCLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	NA	FGCOLDCLEANERS
EURULE287(c)	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 287(c).	NA	FGRULE287(c)
EURULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	NA	FGRULE290
EU701 – EU707	RICE units (40 CFR 63, Subpart ZZZZ, i.e. emergency pumps and generators for computers and lighting backup and fire water lines.). Each engine is diesel fired, combustion ignition (CI), less than 300 HP, over 20 years old, located at an area source of HAP.	10/25/1944	FGRICEMACT

EU0086
EMISSION UNIT CONDITIONS

DESCRIPTION

Series 149/4000 paint booth – miscellaneous metal parts spray booth with a water curtain.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Water Curtain

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	7.5 tons per year ²	12 month rolling time period as determined at the end of each calendar month.	EU0086	Section VI	R 336.1205, R 336.1702(a)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Cleaner	432 gal/year ²	12 month rolling period	EU0086	Section VI	R 336.1201(3)
2. Urethane Paints	648 gal/year ²	12 month rolling period	EU0086	Section VI	R 336.1201(3)
3. Urethane Primer	648 gal/year ²	12 month rolling period	EU0086	Section VI	R 336.1201(3)
4. WR-Primer	2,016 gal/year ²	12 month rolling period	EU0086	Section VI	R 336.1201(3)
5. WR-Paint	3,024 gal/year ²	12 month rolling period	EU0086	Section VI	R 336.1201(3)

6. The VOC content for the materials listed in the above table shall not exceed²
- a) For the Cleaner, 6.20 pounds VOC per gallon (with water/acetone).
 - b) For the Urethane Paints, 3.38 pounds VOC per gallon (with water/acetone).
 - c) For the Urethane Primer, 3.3 pounds per gallon VOC per gallon (with water/acetone).
 - d) For the WR-Primer, 1.30 pounds VOC per gallon (with water/acetone).
 - e) For the WR-Paint, 1.75 pounds VOC per gallon (with water/acetone).

The compliance method for each of these limits is detailed in Section VI. **(R 336.1201(3))**

7. The VOC content of any coating used in EU0086 shall not exceed 3.5 pounds per gallon of coating (minus water) as applied.² **(R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. All waste coatings shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with all applicable rules and regulations.² **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the spray booth associated with EU0086 unless the waterwash curtain in the spray booth is installed, maintained, and operated in a satisfactory manner.² **(R 336.1301, R 336.1331, R 336.1702(a))**

V. TESTING/SAMPLING

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

1. The VOC content, water content, and density of any coating, as applied and as received, shall be determined using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance.² **(R 336.1225, R 336.1702(a))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following information on a monthly basis for EU0086:²
 - a) The number and types of engines processed per month.
 - b) The identity of each cleaner, coating, catalyst, etc. used.
 - c) The amount, in gallons (with water), of each cleaner, coating, catalyst, etc. used.
 - d) The VOC content (in lbs/gal minus water and lbs/gal with water) of each cleaner, coating, etc. as applied.
 - e) Calculations determining the total monthly usage rate for each cleaner, paint and primer used, in accordance with Section II (Material Limits), Conditions 1 - 5, in gallons per calendar month, and the annual usage rate for each in gallons per 12-month rolling time period as determined at the end of each calendar month.
 - f) VOC mass emission calculations determining the monthly emission rate in tons per calendar month for EU0086.
 - g) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month for EU0086.

The records format shall be submitted to the AQD District Supervisor for approval within 30 days of permit issuance. After approval by the AQD Supervisor, all records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205, R 336.1702(a))**

See Appendices 4 and 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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-122	49.7 ²	46 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

EU078
EMISSION UNIT CONDITIONS

DESCRIPTION

Offline paint booth used for second finishing of engine blocks. Miscellaneous metal parts spray booth controlled by a water curtain.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Water curtain

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	21 tons per year ²	12 month rolling time period as determined at the end of each calendar month.	EU078	Section VI	R 336.1205, R 336.1702(a)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Cleaner	3,743 gal/year ²	12 month rolling time period	EU078	Section VI	R 336.1201(3)
2. Urethane Primer	1,535 gal/year ²	12 month rolling time period	EU078	Section VI	R 336.1201(3)
3. Urethane Paint	1,667 gal/year ²	12 month rolling time period	EU078	Section VI	R 336.1201(3)
4. WR-Primer	2,351 gal/year ²	12 month rolling time period	EU078	Section VI	R 336.1201(3)
5. WR-Paint	2,822 gal/year ²	12 month rolling time period	EU078	Section VI	R 336.1201(3)

6. The VOC content for the materials listed in the above table shall not exceed:²

- a) For the Cleaner, 6.20 pounds VOC per gallon (with water/acetone).
- b) For the Urethane Paints, 3.3 pounds VOC per gallon (with water/acetone).
- c) For the Urethane Primer, 3.3 pounds per gallon VOC per gallon (with water/acetone).
- d) For the WR-Primer, 1.30 pounds VOC per gallon (with water/acetone).
- e) For the WR-Paint, 1.75 pounds VOC per gallon (with water/acetone).

The compliance method for each of these limits is detailed in Section VI. **(R 336.1201(3))**

7. The VOC content of any coating used in EU078 shall not exceed 3.5 pounds per gallon of coating (minus water) as applied.² **(R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. All waste coatings shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with all applicable rules and regulations.² **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the spray booth associated with EU078 unless the waterwash curtain in the spray booth is installed, maintained, and operated in a satisfactory manner.² **(R 336.1301, R 336.1331, R 336.1702(a))**

V. TESTING/SAMPLING

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

1. The VOC content, water content, and density of any coating, as applied and as received, shall be determined using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance.² **(R 336.1225, R 336.1702(a))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following information on a monthly basis for EU078:²
 - a) The number and types of engines processed per month.
 - b) The identity of each cleaner, coating, catalyst, etc. used.
 - c) The amount, in gallons (with water), of each cleaner, coating and catalyst, etc. used.
 - d) The VOC content (in lbs/gal minus water and lbs/gal with water) of each cleaner, coating, etc. as applied.
 - e) Calculations determining the total monthly usage rate for each cleaner, paint and primer used, in accordance with Section II (Material Limits), Conditions 1 - 5, in gallons per calendar month, and the annual usage rate for each in gallons per 12-month rolling time period as determined at the end of each calendar month.
 - f) VOC mass emission calculations determining the monthly emission rate in tons per calendar month for EU078.
 - g) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month for EU078.

The records format shall be submitted to the AQD District Supervisor for approval within 30 days of permit issuance. After approval by the AQD Supervisor, all records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205, R 336.1702(a))**

See Appendices 4 & 7.

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-127	42 ²	65 ²	R 336.1225. R 336.1901, 40 CFR 52.21(c) & (d)
2. SV-128	42 ²	65 ²	R 336.1225. R 336.1901, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

D. FLEXIBLE GROUP CONDITIONS

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

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

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
FGBOILERS	Three natural gas fired watertube boilers.	EUBOILER1, EUBOILER4, EUBOILER5
FG600-2	Three paint booths used to apply coatings to diesel engines.	EU600, EU601, EU602
FGHDCELLS	Testing cells/dyno for testing and analyzing heavy duty (on highway) reciprocating engines when combusting diesel fuel.	EUHDCELLS
FGNONROADCELLS	Testing cells/dyno for testing and analyzing nonroad reciprocating engines when combusting diesel fuel.	EUNONROADCELLS
FGNATGASCELLS	Testing cells/dyno for testing and analyzing reciprocating engines when combusting natural gas or compressed natural gas.	EUNATGASCELLS
FGCOLDCLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	EUCOLDCLEANERS, EU840, EU841-EU899
FGRULE287(c)	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 287(c).	EURULE287(c), EU017
FGRULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	EURULE290, EU019
FGRICEMACT	Rice Units (40 CFR 63, Subpart ZZZZ, i.e. emergency pumps and generators for computer and lighting backup and fire water lines), Each engine is diesel fired, combustion ignition (CI), less than 300 HP, over 20 years old, located at an area source of HAP.	EU701-EU707

**FGBOILERS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three natural fired watertube boilers.

Emission Units: EUBOILER1, EUBOILER4, EUBOILER5

POLLUTION CONTROL EQUIPMENT : NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	100 lbs/millions cubic feet of natural gas ²	Test Protocol	FGBOILERS	Section V	R 336.1201(3), R 336.1205(3)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NA	NA	NA	NA	NA	NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall only combust natural gas in FGBOILERS.² (R 336.1201(3), R 336.1205(3))

IV. DESIGN/EQUIPMENT PARAMETERS

1. NA

V. TESTING/SAMPLING

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

1. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

VI. MONITORING/RECORDKEEPING

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

1. Permittee shall record the total natural gas consumption rate for each unit listed in FGBOILERS for each calendar month. (R 336.1205(3))

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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

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

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

FG600-2
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Three paint booths used to apply coatings to diesel engines.

Emission Units: EU600, EU601, EU602

POLLUTION CONTROL EQUIPMENT

Dry Filters

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	36.0 tons per year ²	12 month rolling time period as determined at the end of each calendar month.	FG600-2	Section VI	R 336.1702(a)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOCs	3.5 lb/gal (minus water)* as applied ²	Instantaneous	FG600-2	Section V	R 336.1702(a)
*The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. R 336.1602(4))					

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall capture all waste coatings, reducers and solvents and shall store them in closed containers and be disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² (R 336.1224, R 336.1225, R 336.1702(a))
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.² (R 336.1224, R 336.1370)

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate FG600-2 unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner.² (R 336.1224, R 336.1901, R 336.1910)
2. The permittee shall equip and maintain EU600 and EU601 with airless, air-assist spray guns or comparable technology with equivalent transfer efficiency. The permittee shall equip and maintain EU602 with a High Concentration, Low Flow applicator or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing.² (R 336.1702(a))

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.²
(R 336.1225, R 336.1702(a), R 336.1901)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition.²
(R 336.1225, R 336.1702(a), R 336.1901)
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, reducer or solvent, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request.²
(R 336.1225, R 336.1702(a), R 336.1901)
3. The permittee shall keep the following information on a monthly basis for FG600-2:²
 - a) Gallons (with water) of each coating used.
 - b) VOC content (minus water and with water) of each coating as applied.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request.
(R 336.1225, R 336.1702(a), R 336.1901)

4. The permittee shall keep the following information on a monthly basis for the use of purge and clean-up solvents associated with FG600-2:²
 - a) Gallons of each solvent used and reclaimed.
 - b) VOC content, in pounds per gallon, of each solvent used.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request.
(R 336.1225, R 336.1702(a), R 336.1901)

See Appendices 4 and 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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. SV600	36 ²	40 ²	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
2. SV601	36 ²	40 ²	R 36.1225, R 336.1901, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

**FGHDCELLS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Testing cells/dynamometer for testing and analyzing heavy duty (on highway) reciprocating engines when combusting diesel fuel.

Emission Units: EUHDCELLS

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	92.5 lbs per 1,000 gallons of diesel fuel ²	Test Protocol	FGHDCELLS	Section V	R 336.1201(3), R 336.1205(3)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Sulfur Content of Diesel Fuel	0.30 percent by weight	Instantaneous	FGHDCELLS	VI.2	R 336.1402

III. PROCESS/OPERATIONAL RESTRICTIONS

1. NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. NA

V. TESTING/SAMPLING

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

1. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

VI. MONITORING/RECORDKEEPING

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

1. Refer to Appendix 7 for details.
2. The permittee shall keep a written log of the sulfur content for fuel combusted in FGHDCELLS, including the sulfur content of each shipment of diesel fuel. Records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1213(3), R 336.1402)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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

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

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

**FGNONROADCELLS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Testing cells/dynamometers for testing and analyzing nonroad reciprocating engines when combusting diesel fuel.

Emission Units: EUNONROADCELLS

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	196 lbs per 1,000 gallons of diesel fuel ²	Test Protocol	EUNONROADCELLS	Section V	R 336.1201(3), R 336.1205(3)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Sulfur Content of Diesel Fuel	0.30 percent by weight	Instantaneous	FGNONROADCELLS	VI.2	R 336.1402

III. PROCESS/OPERATIONAL RESTRICTIONS

1. NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. NA

V. TESTING/SAMPLING

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

1. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

VI. MONITORING/RECORDKEEPING

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

1. Refer to Appendix 7 for details.
2. The permittee shall keep a written log of the sulfur content for fuel combusted in FGNONROADCELLS, including the sulfur content of each shipment of diesel fuel. Records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1213(3), R 336.1402)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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

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

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

**FGNATGASCELLS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Testing cells/dynamometers for testing and analyzing reciprocating engines when combusting natural gas or compressed natural gas.

Emission Units: EUNATGASCELLS

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	2,840 lbs per million cubic feet of natural gas ²	Test Protocol	EUNATGASCELLS	Section V	R 336.1201(3), R 336.1205(3)

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NA	NA	NA	NA	NA	NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. NA

V. TESTING/SAMPLING

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

- The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. (R 336.2001)

VI. MONITORING/RECORDKEEPING

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

- Refer to Appendix 7 for details.

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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. NA	NA	NA	NA

IX. OTHER REQUIREMENTS

1. NA

Footnotes:

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

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

FGCOLDCLEANERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: EUCOLDCLEANERS, EU840, EU841-EU899

POLLUTION CONTROL EQUIPMENT : NA

I. EMISSION LIMITS : NA

II. MATERIAL LIMITS

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 RESTRICTIONS

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 PARAMETERS

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))**

- 1. 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 RESTRICTIONS: NA

IX. OTHER REQUIREMENTS: NA

FGRULE287(c)
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 287(c).

Emission Unit: EURULE287(c), EU017

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Underlying Applicable Requirement
1. Coatings	200 gallons	Per month, as applied, minus water, per emission unit	NA	R 336.1287(c)(i)

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

- Any exhaust system that serves only coating spray equipment shall be equipped with a properly installed and operating particulate control system. **(R 336.1287(c)(ii))**

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))**

- 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 287(c), Permit to Install Exemption Record form (EQP 3562) or an alternative format that is approved by the AQD District Supervisor. **(R 336.1213(3))**
 - Volume of coating used, as applied, minus water, in gallons. **(R 336.1287(c)(iii))**
 - Documentation of any filter replacements for exhaust systems serving coating spray equipment. **(R 336.1213(3))**

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

FGRULE290 FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.

Emission Unit: EURULE290, EU019

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

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 LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

- 1. The provisions of Rule 290 apply to each emission unit that is operating pursuant to Rule 290. **(R 336.1290)**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

- 1. 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 an alternative format that is approved by 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))**

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

**FGRICEMACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Reciprocating Internal Combustion Engines (RICE) subject to 40 CFR 63, Subpart ZZZZ, i.e. emergency pumps and generators for computer and lighting backup and fire water lines. Each engine is diesel fired, combustion ignition (CI), less than 300 HP, over 20 years old, located at an area source of HAP.

Emission Units: EU701-EU707

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS: NA

II. MATERIAL LIMITS

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Sulfur Content of Diesel Fuel	0.30 percent by weight	Instantaneous	FGRICEMACT	VI.2	R 336.1402

III. PROCESS/OPERATIONAL RESTRICTIONS

1. FGRICEMACT must comply with the applicable emission limitations and operating limitations in 40 CFR 63, Subpart ZZZZ no later than May 3, 2013. **(40 CFR 63.6595(a))**
2. Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6625(e)(3)), (40 CFR 6640(a))**
3. The permittee shall operate and maintain, at all times, any affected CI RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.6605(b))**
4. The permittee shall comply with the following requirements, except during periods of startup:
 - a) Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.5.
 - b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.
 - c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. **(40 CFR 63.6603(a)), (40 CFR 63.6602, Table 2d)**

Note: If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in SC III.4, the work practice should be performed as soon as practicable after the emergency has ended.

5. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement in 40 CFR 63.6603(a) and as listed in SC III 4(a). The oil analysis program must be performed at the same frequency as oil changes are required. The analysis program must analyze the parameters and keep records as required in 40 CFR 63.6625(i). **(40 CFR 63.6625(i))**
6. The permittee you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d of 40 CFR 63, Subpart ZZZZ. **(40 CFR 63.6625(h))**
7. The permittee shall not allow the CI engine(s) to exceed 100 hours for Maintenance checks and readiness testing. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(1)(ii))**
8. The permittee shall not allow the CI engine(s) to operate more than 50 hours per year for non-emergency situations, as allowed in 40 CFR 63.6640(f)(1)(iii). **(40 CFR 63.6640(f)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install a non-resettable hour meter to each engine, if one is not already installed. **(R 336.1213(3)), (40 CFR 63.6625 (f))**

V. TESTING/SAMPLING

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

1. If using the oil analysis program for CI Engine(s), the permittee shall test for Total Base Number, viscosity and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. **(40 CFR 63.6625(i))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep records of the hours of operation of each engine that is recorded through the non-resettable hour meter. The permittee must document:
 - a) How many hours are spent for emergency operation?
 - b) What classified the operation as emergency?
 - c) How many hours are spent for non-emergency operation?
 - d) If the engines are used for demand response operation, the permittee must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. **(40 CFR 63.6655(f), 40 CFR 63.6660)**
2. The permittee shall keep a written log of the sulfur content for fuel combusted in FGRICEMACT, including the sulfur content of each shipment of diesel fuel. Records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1213(3), R 336.1402)**
3. The permittee shall keep records for each CI engine of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**
4. The permittee shall keep records of all required maintenance performed on the air pollution control and monitoring equipment. **(40 CFR 63.6655(a)(4), 40 CFR 63.6660)**

5. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with 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.
(40 CFR 63.6655(a)(5), 40 CFR 63.6660)
6. The permittee must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The records shall be kept for 5 years.
(40 CFR 63.6625(i))
7. The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the permittee’s maintenance plan.
(40 CFR 63.6655(e), 40 CFR 63.6660)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTIONS

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. NA	NA	NA	NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subparts A-General Provisions and ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
(R 336.1213), (40 CFR Part 63 Subparts A and ZZZZ)
2. If all of the condemning limits specified in SC V.1 are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 days or before commencing operation, whichever is later.
(40 CFR 63.6625(i))

Footnotes:

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

E. NON-APPLICABLE REQUIREMENTS

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

APPENDICES

Appendix 1. 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 ₂ 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 ₂	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

A. Coating Records

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in EU0086, EU078, and FG600-2. Alternative formats must be approved by the AQD's District Supervisor.

Applicant shall record for each coating line and for each coating used during each month the following:

Per R 336.2041 (3) (a)

1. Name of coating

2. Identification number of coating

3. L_{ci} = Volume of each coating "i" used during the month (gallons of coating, minus water, as applied).

4. P = For an individual coating "i," pounds of volatile organic compounds per gallon of coating, minus water, as applied.

[Per R 336.2040 (5) (a)]

The volatile organic compound content of an ink or coating, minus water, as applied, "P," shall be determined using federal reference method 24 or federal reference method 24a, as applicable to the coating, as described in R 336.2004, or an alternate method approved by the commission.]

[Per R 336.2040 (5) (b)]

Upon written approval by the commission, the volatile organic compound content of an ink or coating may be determined from formulation data, which includes batch composition information from the coating manufacturer and the amount of volatile organic compound dilution solvent added to coating before application. In this case, "P" shall be calculated using the following equation:

$$P = \frac{L_{di} P_s + L_{sj} D_{sj}}{L_{di} + L_{sj}}$$

where

L_{di} = Volume of each ink or coating "i" as received from the ink or coating supplier and used during the month (gallons of ink or coating).

L_{sj} = Volume of each volatile organic compound dilution solvent "j" added to the coating during the month (gallons of solvent, minus water).

D_{sj} = Density of each volatile organic compound dilution solvent "j" added to the coating (pounds per gallon of solvent, minus water).

P_s = For an individual coating "i," pounds of volatile organic compounds, minus water, as received from the ink or coating supplier.]

Per R 336.2041(3)(b)

5. M = Total weight of volatile organic compounds in all coatings "z" used during the month for a coating line (pounds).

[Per R 336.2040(6)

The weight of volatile organic compounds that are used during the averaging period shall be calculated using the following equation, where "z" is the total number of coatings used:

$$M = \sum_{i=1}^z L_{ci} P$$

where

L_{ci} = Volume of each coating "i" used during the month (gallons of coating, minus water, as applied).

P = For an individual coating "i," pounds of volatile organic compounds per gallon of coating, minus water, as applied.)]

Per R 336.2041(3)(c)

6. G_T = Total volume of all coatings "z" used during the month (gallons of coating, minus water, as applied).

[Per R 336.2040(12)(a)(ii)(A)

Determine P, in manner previously described, where

P = For an individual coating "i," pounds of volatile organic compounds per gallon of coating, minus water, as applied.

Per R 336.2040(12)(a)(ii)(B)

Determine M, in manner previously described, where

M = Total weight of volatile organic compounds in all coatings "z" used during the month for a coating line (pounds).

[Per R 336.2040(12)(a)(ii)(C)

Determine the total volume of coatings used on the coating line during the month "G_T" using the following equation:

$$G_T = \sum_{i=1}^z L_{ci}$$

where

L_{ci} = Volume of each coating "i" used during the month (gallons of coating, minus water, as applied).]

Per R 336.2041(3)(d)

7. P_a = volume-weighted average pounds of volatile organic compounds per gallon of coating, minus water, as applied, during the month.

8. With the exception of E-01.04, annual emissions of VOC, in tons.

9. For E-01.04 only, 12-month rolling emissions of VOC, in tons.

B. Rule 287(c) Records

The permittee may use the attached approved format provided by the Environmental Science and Services Division (EQP 3562) for the recordkeeping requirements referenced in FGRULE287 (c).

RULE 287(c) PERMIT TO INSTALL EXEMPTION RECORD: SURFACE COATING EQUIPMENT

This record is provided as a courtesy for businesses by the Michigan Department of Environmental Quality (MDEQ), Environmental Assistance Division, Clean Air Assistance Program, and is not required to be returned or submitted to the MDEQ.

Applicable Rule: Rule 287(c) of the Michigan Air Pollution Control Rules

NOTE: Rule 287(c) of the Michigan Air Pollution Control Rules exempts surface coating operations from the Permit to Install program as long as the following conditions are met:

1. The coating use rate shall not be more than 200 gallons, as applied, minus water, per month;
2. Any exhaust system that serves only coating spray equipment is supplied with a properly installed and operating particulate control system; and
3. Monthly coating usage records are maintained on file for the most recent two-year period and are made available to the MDEQ Air Quality Division upon request.

Please print or type all information.

COMPLETE THE MONTHLY COATING USAGE LOG FOR EACH SURFACE COATING LINE USING THE EXEMPTION IN RULE 287(c).	
INSTRUCTIONS FOR COMPLETING THE MONTHLY COATING USAGE LOG:	
Columns	
Columns (a) and (b):	Identify the name of the coating manufacturer and the product identification number. This information can be obtained from the coating container or the MSDS.
Column (c):	List the coating type. This may include but not be limited to the following: precoat, primer/primer surfacer, primer sealer, topcoat, thinners, and reducers.
Column (d):	Record the volume of coating used, as applied, minus water, in gallons. At the end of the month, total the quantities in column (d). This total should not exceed 200 gallons. [To find the volume as applied, minus water, multiply the amount used by 1 minus the volume fraction of water in the coating. For example, if you use 5 gallons of a coating that is 40% water by volume, multiply 5 by (1-0.40). This calculation yields a coating usage of 3 gallons, as applied, minus water.]
Column (e)	Initials of operator or owner.
Column (f)	Record the volume of cleanup solvents used in gallons. Even though Rule 287(c) does not address cleanup solvent usage, it is advisable to keep track of this usage. Facilities that receive Michigan Air Pollution Reporting Forms should include their usage of cleanup solvent on the forms.
SOURCE NAME:	
MONTH/YEAR:	

Manufacturer (a)	Product ID Number (b)	Coating Type (c)	Coating Usage (gal) (d)	Operator's Initials (e)	Cleanup Solvent Usage (gal) (f)
Total coating used (gal) <200 gal/month				Total cleanup solvent used (gal)	

C. Rule 290 Records

The permittee may use the following approved format provided by the Environmental Science and Services Division, for the reporting requirements referenced in FGRULE290.

RULE 290 PERMIT TO INSTALL EXEMPTION: SOURCES WITH LIMITED EMISSIONS RECORD

Applicable Rule: Rule 290 of the Michigan Air Pollution Control Rules

NOTES:

- R 336.1290 of the Michigan Air Pollution Control Rules exempts an emission unit with limited emissions from having to apply for Permit to Install. R 336.1201 requires sources to obtain a Permit to Install prior to the installation, construction, reconstruction, relocation, and modification of an emission unit. Sources using this exemption must not meet any of the criteria in R 336.1278 and must be able to demonstrate compliance with the various emission limits contained in R 336.1290.
- Proper completion of this form is **not** the sole method of demonstrating compliance with the requirements of R 336.1290.
- **IRSL** = Initial Risk Screening Level means the concentration of a possible, probable, or known human carcinogen in ambient air which has been calculated for regulatory purposes, according to the risk assessment procedures in R 336.1230(7), to produce an estimated upper-bound lifetime cancer risk of 1 in 1,000,000.
- **ITSL** = Initial Threshold Screening Level means a concentration of a toxic air contaminant in the ambient air which is used to evaluate noncarcinogenic health effects from a proposed new or modified process and which is calculated, for regulatory purposes, according to the procedures in R 336.1230(8).
- If an emission unit is equipped with a control device (i.e., equipment that captures and/or destroys air contaminants) and the control device is not vital to production of the normal product of the process or to its normal operation, then there are two options of recording emissions in Sections 2, 3, and 4:
 1. record all uncontrolled emissions of air contaminants (i.e., all air contaminants entering the control device); OR
 2. record all controlled emissions of air contaminants (all air contaminants leaving the control device).

Whatever option is chosen, that option should be consistently used throughout Sections 2, 3, 4, and 5.

- If the emission unit is not equipped with a control device or the control device is vital to production of the normal product of the process or to its normal operation, then the quantity of each emission of air contaminant identified in Sections 2, 3, 4, and 5 should be recorded as uncontrolled emissions.
- For questions, concerns or more information regarding the Rule 290 exemption recordkeeping format, please contact the Environmental Assistance Division at 1-800-662-9278 or refer to the Environmental Assistance Division web-site at <http://www.deq.state.mi.us/ead/eosect/caap/>.

Please print or type all information.

1. COMPLETE FOR EACH EMISSION UNIT USING FGRULE290.			
SOURCE NAME:			
MONTH/YEAR:			
DESCRIPTION OF EMISSION UNIT (including control devices):			
2. RECORD EMISSIONS OF NONCARCINOGENIC AIR CONTAMINANTS (EXCLUDING NONCARCINOGENIC VOCS AND NONCARCINOGENIC, NON-OZONE FORMING MATERIALS LISTED IN R 336.1122(f))			
ITSL ≥ 2.0 ug/m3*			
CAS #	Chemical Name	Uncontrolled Emissions (lbs/month)	Controlled Emissions (lbs/month)
Monthly Total		①	②
2.0 ug/m3 > ITSL ≥ 0.04 ug/m3			
CAS #	Chemical Name	Uncontrolled Emissions (lbs/month)	Controlled Emissions (lbs/month)
Monthly Total		③	④
Compliance Criteria:			
<ul style="list-style-type: none"> • The total in Box ① must be ≤ 1,000 pounds or the total in Box ② must be ≤ 500 pounds. • The total in Box ③ must be ≤ 20 pounds or the total in Box ④ must be ≤ 10 pounds. <p>*The emissions of noncarcinogenic particulate air contaminants with an ITSL > 2.0 ug/m3 do not have to be recorded in this table as long as the requirements in Section 6 are being complied with.</p>			
3. RECORD EMISSIONS OF CARCINOGENIC AIR CONTAMINANTS			

IRSL ≥ 0.04 ug/m3			
CAS #	Chemical Name	Uncontrolled Emissions (lbs/month)	Controlled Emissions (lbs/month)
Monthly Total	⑤		⑥
Compliance Criteria:			
<ul style="list-style-type: none"> The total in Box ⑤ must be ≤ 20 pounds or the total in Box ⑥ must be ≤ 10 pounds. 			
4. RECORD EMISSIONS OF ALL NONCARCINOGENIC VOCS AND NONCARCINOGENIC, NON-OZONE FORMING MATERIALS LISTED IN R 336.1122(f) IRSL > 0.04 ug/m3			
CAS #	Chemical Name	Uncontrolled Emissions (lbs/month)	Controlled Emissions (lbs/month)
Monthly Total	⑦		⑧
Compliance Criteria:			
<ul style="list-style-type: none"> The total in Box ⑦ must be ≤ 1,000 pounds or the total in Box ⑧ must be ≤ 500 pounds. 			
5. RECORD TOTAL MONTHLY EMISSIONS (Lbs/Month)			
Total uncontrolled emissions (Box ① + Box ③ + Box ⑤ + Box ⑦)			
Total controlled emissions (Box ② + Box ④ + Box ⑥ + Box ⑧)			
Compliance Criteria:			
<ul style="list-style-type: none"> The total uncontrolled emissions (Box ① + Box ③ + Box ⑤ + Box ⑦) must be ≤ 1,000 pounds or The total controlled emissions (Box ② + Box ④ + Box ⑥ + Box ⑧) must be ≤ 500 pounds. 			
6. NONCARCINOGENIC PARTICULATE AIR CONTAMINANTS			

NOTE: Quantities of particulates being emitted from an emission unit complying with the requirements above should not be included in Section 2. Quantities of noncarcinogenic particulates with an ITSL equal to or less than 2.0 ug/m3 and greater than or equal to 0.04 ug/m3 must be included in Section 2. Quantities of carcinogenic particulates must be included in Section 3. Emission units that emit noncarcinogenic particulate air contaminants must be controlled with an appropriately designed collection device and must not exceed 5% opacity pursuant to R 336.1290(a)(iii).

7. OTHER REQUIREMENTS

Provide emission calculations to demonstrate compliance with the emission limits identified in Sections 2, 3, 4, 5, and 6.

Appendix 5. Testing Procedures

There are no specific testing requirement plans or procedures for this ROP. Therefore, this appendix is not applicable.

Appendix 6. Permits to Install

The following table lists any PTIs issued since the effective date of previously issued ROP No. MI-ROP-A8638-2007. **This includes any PTIs that were incorporated into the Source-Wide PTI No MI-PTI- A8638-2007 through amendments or modifications and any PTI that remained off-permit until this ROP renewal.**

Source-Wide PTI No MI-PTI-{A8638}-{2007} is being reissued as Source-Wide PTI No. MI-PTI-{A8638}-{2012}.

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
NONE		

B. Procedures for Calculating Facility NOx Emissions

The permittee is responsible for, and shall document, compliance with the annual facility-wide NOx limit established under Part B of this permit (Source-Wide Conditions) that apply to this stationary source. This will be done on a calendar month basis. This limit includes all rule 201 exempt sources and all “grandfathered” sources.

Compliance will be demonstrated by keeping track of all natural gas usage and diesel fuel usage for all equipment using natural gas and/or diesel fuel at this facility and multiplying that fuel usage by an appropriate emission factor. The emission factors are typically expressed as a mass weight of pollutant per unit of fuel.

The limits expressed in this permit are “default” emission factors.

The permittee shall only use emission factors contained in AP-42 (Compilation of Air Pollutant Emission Factors), the FIRE (Factor Information Retrieval) database, or published EPA vehicle emission factors such as Emission Standard Reference Guide for Heavy-Duty and Nonroad engines (EPA420-F-97-014), or from source specific testing (stack testing). In the event that the permittee is requested to perform stack testing, the default emission factor shall be replaced with the tested value. If other emission source values are used, the permittee shall obtain the approval of the district supervisor before using the emission factors to calculate emissions.

The permittee shall document the source of the emission factors used in the calculations.

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the MDEQ Report Certification form (EQP 5736) and MDEQ 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.