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

EFFECTIVE DATE: June 27, 2022

**ISSUED TO** 

# Lyons Industries, Inc.

State Registration Number (SRN): N5599

# LOCATED AT

30000 M-62 West, Dowagiac, Cass County, Michigan 49047

# **RENEWABLE OPERATING PERMIT**

Permit Number: MI-ROP-N5599-2022

Expiration Date: June 27, 2027

Administratively Complete ROP Renewal Application Due Between December 27, 2025 and December 27, 2026

This Renewable Operating Permit (ROP) is issued in accordance with and subject to Section 5506(3) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Pursuant to Rule 210(1) of the administrative rules promulgated under Act 451, this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

# SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-N5599-2022

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(1) of Act 451. Pursuant to Rule 214a of the administrative rules promulgated under Act 451, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environment, Great Lakes, and Energy

Rex Lane, Kalamazoo District Supervisor

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# AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

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

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

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

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

# A. GENERAL CONDITIONS

# Permit Enforceability

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

## **General Provisions**

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

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

# Equipment & Design

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

# **Emission Limits**

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

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

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

# **Testing/Sampling**

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

# Monitoring/Recordkeeping

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

# **Certification & Reporting**

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

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

# Permit Shield

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

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

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

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

# Revisions

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

# Reopenings

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

# Renewals

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

# Stratospheric Ozone Protection

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

# Risk Management Plan

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

# **Emission Trading**

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

# Permit to Install (PTI)

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

# Footnotes:

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

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

# **B. SOURCE-WIDE CONDITIONS**

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

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

# C. EMISSION UNIT SPECIAL CONDITIONS

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

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

# EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUACRBOOTH1	Booth used for gel coat spray or fiberglass lay-up operations.	01-01-1995	FGBOOTHSUMMARY FGNESHAP WWWW
EUGELBOOTH	Booth used for gel coat spray or fiberglass lay-up operations.	03-01-1997	FGBOOTHSUMMARY FGNESHAP WWWW
EUDUSTCOLLECTOR	Grinders, floor sweeps, and saws connected to outside dust collector.	02-08-2008	NA
EUGENERATOR	1,135 BHP (2.98 MMBTU/hr) #2 diesel fired compression ignition emergency generator.	2015	FGNESHAP ZZZZ

# EUDUSTCOLLECTOR EMISSION UNIT CONDITIONS

# DESCRIPTION

Grinders, floor sweeps, and saws connected to outside dust collector.

# Flexible Group ID: NA

# POLLUTION CONTROL EQUIPMENT

Dust Collector

# I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1	PM	0.1 lb/1000 lbs exhaust gas, on a dry gas basis	Hourly	EUDUSTCOLLECTOR	SC V.1 SC VI.1	R 336.1331(1)(a), Table 31(J)

# II. MATERIAL LIMIT(S)

NA

# III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

# IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. An air-cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with these rules and existing law. (R 336.1910)
- 2. 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. (R 336.1370(1))

# V. TESTING/SAMPLING

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

1. Upon request of the AQD District Supervisor, the permittee shall verify PM emission rates from EUDUSTCOLLECTOR by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. If testing is to be performed, no less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

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2. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place performance tests will be conducted. (R 336.1213(3))

# VI. MONITORING/RECORDKEEPING

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

1. The permittee shall perform a daily inspection of the dust collector including a visual emissions check for those days the facility is operating. (R 336.1213(3))

# VII. <u>REPORTING</u>

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

#### See Appendix 8

# VIII. STACK/VENT RESTRICTION(S)

NA

# IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

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

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

# D. FLEXIBLE GROUP SPECIAL CONDITIONS

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

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

# FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGBOOTHSUMMARY	Gel coat spray and fiberglass lay-up operations.	EUACRBOOTH1 EUGELBOOTH
FGNESHAP WWWW	All equipment at the stationary source involved in reinforced plastic composites production that is identified as part of an EXISTING EFFECTED SOURCE subject to 40 CFR 63.5785 and 40 CFR 63.5790.	EUACRBOOTH1 EUGELBOOTH
FGNESHAP ZZZZ	New stationary emergency engines >500 BHP. 1,135 BHP (2.89 MMBTU/hr) #2 diesel fired compression ignition emergency generator.	EUGENERATOR

# FGBOOTHSUMMARY FLEXIBLE GROUP CONDITIONS

# DESCRIPTION

Gel coat spray and fiberglass lay-up operations.

Emission Units: EUACRBOOTH1, EUGELBOOTH

# POLLUTION CONTROL EQUIPMENT

Fabric filters

# I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	VOC	124.2 pounds per hour <sup>1</sup>	Calculated on a monthly basis	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1225
2.	VOC	98.5 tons per year <sup>2</sup>	Based on a 12-month rolling time period as determined at the end of each calendar month	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1702(a)
3.	Styrene	123.9 pounds per hour <sup>1</sup>	Calculated on a monthly basis	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1225
4.	Styrene	98.2 tons per year <sup>1</sup>	Based on a 12-month rolling time period as determined at the end of each calendar month	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1225
5.	Acetone	40 pounds per hour <sup>1</sup>	Calculated on a monthly basis	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1225
6.	Acetone	29.75 tons per year <sup>1</sup>	Based on a 12-month rolling time period as determined at the end of each calendar month	EUARCBOOTH1 EUGELBOOTH	SC VI.1	R 336.1225

# II. MATERIAL LIMIT(S)

NA

# III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall change the dry filters in the booths when the differential pressure readings are outside the range specified by the manufacturer and/or the visual capture efficiency inspection concludes that inadequate capture efficiency is taking place. (R 336.1213(3))

# IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain all booths with HVLP spray guns or equivalent technology having comparable transfer efficiency. All applications shall be properly installed, maintained, and operated according to the manufacturer's specifications.<sup>2</sup> (R 336.1225, R 336.1702a))

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2. All waste resins, gel coats, catalysts, and acetone shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.<sup>2</sup> (R 336.1370)

# 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 the following records and emission calculations:<sup>2</sup> (R 336.1702(a))
  - a. The identity of each resin, gel coat, catalyst, purge, and cleanup solvent used.
  - b. The composition in weight percent of VOC, free styrene, and acetone in each resin, gel coat, catalyst, purge, and cleanup solvent used.
  - c. The monthly operating hours.
  - d. The monthly and 12-month rolling time period total usage, in pounds, for each resin, gel coat, catalyst, purge, and cleanup solvent used.
  - e. The monthly and 12-month rolling time period reclaimed amount, in pounds, of purge and cleanup solvent.
  - f. The calculated monthly and 12-month rolling time period total mass VOC emissions, in pounds or tons.
  - g. The calculated monthly and 12-month rolling time period total mass styrene emissions, in pounds or tons.
  - h. The calculated monthly and 12-month rolling time period total mass acetone emissions, in pounds or tons.
- 2. Perform visual installation and capture efficiency inspections of each of the particulate filters on a daily basis during maximum routine operating conditions (see Appendix 3). (R 336.1213(3))
- 3. Monitor and record the differential pressure readings across each of the particulate filters on a daily basis, during maximum routine operating conditions. (R 336.1213(3))

#### See Appendices 3, 4, and 7

# VII. <u>REPORTING</u>

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

# See Appendix 8

# VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVACRBOOTH1	36 <sup>1</sup>	45 <sup>1</sup>	R 336.1225(1)
2. SVGELBOOTH	36 <sup>1</sup>	45 <sup>1</sup>	R 336.1225(1)

# IX. OTHER REQUIREMENT(S)

NA

# Footnotes:

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

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

# FGNESHAP WWWW FLEXIBLE GROUP CONDITIONS

# DESCRIPTION

All equipment at the stationary source involved in reinforced plastic composites production that is identified as part of an EXISTING EFFECTED SOURCE subject to 40 CFR 63.5785 and 40 CFR 63.5790.

Emission Units: EUACRBOOTH1, EUGELBOOTH

# POLLUTION CONTROL EQUIPMENT

Fabric filters

# I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	Organic HAP* from Open Molding- Mechanical Resin Application (Non- Corrosion Resistant and/or Non-High Strength Resin)	88 lb/ton resin	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
2.	Organic HAP* from Open Molding- Filament Resin Application (Non- Corrosion Resistant and/or Non-High Strength Resin)	188 lb/ton resin	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
3.	Organic HAP* from Open Molding- Manual Resin Application (Non- Corrosion Resistant and/or Non-High Strength Resin)	87 lb/ton resin	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
4.	Organic HAP* from Open Molding- Mechanical Tooling Resin Application	254 lb/ton resin	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
5.	Organic HAP* from Open Molding- Manual Tooling Resin Application	157 lb/ton resin	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
6.	Organic HAP* from Open Molding- Gel Coat*** (Tooling Gel Coat)	440 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
7.	Organic HAP* from Open Molding- Gel Coat*** (White/Off White Pigmented Gel Coat)	267 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
8.	Organic HAP* from Open Molding- Gel Coat*** (Other Pigmented Gel Coat)	377 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
9.	Organic HAP* from Open Molding- Gel Coat*** (Corrosion Resistant and/or High Strength or High-Performance Gel Coat)	605 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
10.	Organic HAP* from Open Molding- Gel Coat*** (Fire Retardant Gel Coat)	854 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)
	Organic HAP* from Open Molding- Gel Coat*** (Clear Production Gel Coat)	522 lb/ton gel	Dependent upon compliance method**	EUACRBOOTH1 EUGELBOOTH	SC VI.5	40 CFR 63.5805(b)

\* Organic HAP includes styrene and methyl methacrylate.

\*\* The permittee shall determine whether the organic HAP emission rate is equal to or less than the applicable emission limits using one of the following methods:

- a. Demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit.
- b. Demonstrate that, on average, they meet the individual organic HAP emissions limits for each combination of operation type and resin application method or gel coat type.
- c. Demonstrate compliance with a weighted average emission limit.
- d. Meet the organic HAP emissions limit for one application method and use the same resin(s) for all application methods of that resin type.
- \*\*\* If the permittee only applies gel coat with manual application, for compliance purposes, then they must treat the gel coat as if it were applied using atomized spray guns to determine both emission limits and emission factors. If the permittee uses multiple application methods and any portion of a specific gel coat is applies using non-atomized spray, then they may use the non-atomized spray gel coal equation to calculate an emission factor for the manually applied portion of that gel coat. Otherwise, they should use the atomized spray gel coat application to calculate emission factors.

# II. MATERIAL LIMIT(S)

NA

# III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate FGNESHAP WWWW except in compliance with the applicable work practice standards in Table 4 of 40 CFR Part 63, Subpart WWWW. (40 CFR 63.5805(b), 40 CFR 63.5835(a))
- 2. The permittee shall keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety. (40 CFR 63.5805(b))
- 3. The permittee shall not use cleaning solvents that contain any HAP except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts the resin. (40 CFR 63.5805(b))

# IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

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))

- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (i.e., resin, gel coat, catalyst, clean-up solvent, etc.). The data shall consist of information provided by the material manufacturer and must be adequate for determining the HAP content of each material as specified in 40 CFR 63.5797. (40 CFR 63.5797)
- 2. The permittee shall maintain all applicable records as required by 40 CFR 63.5915 and 40 CFR 63.5920. (40 CFR 63.5915, 40 CFR 63.5920)
- 3. The permittee must comply with the recordkeeping requirements as detailed in 40 CFR 63.5895 and 40 CFR 63.5900. (40 CFR 63.5895, 40 CFR 63.5900)
- The emission factors from Table 1 to Subpart WWWW of 40 CFR Part 63 shall be used to calculate organic HAP emissions for the purposes of this compliance demonstration. Table 1 is included in Appendix 4. (40 CFR 63.5805(b), 40 CFR 63.5810, 40 CFR 63.5835 and 40 CFR 63.5796)
- 5. The permittee shall determine compliance with the applicable emission limits in the FGNESHAP WWWW Emission Limit Table and in Table 3 of 40 CFR Part 63, Subpart WWWW by using one of the following methods (40 CFR 63.5810):
  - a. In accordance with 40 CFR 63.5810(a), demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit.
  - b. In accordance with 40 CFR 63.5810(b), demonstrate that, on average, the permittee meets the individual organic HAP emissions limits for each combination of operation type and resin application method or gel coat type.
  - c. In accordance with 40 CFR 63.5810(c), demonstrate compliance with a weighted average emission limit.
  - d. In accordance with 40 CFR 63.5810(d), meet the organic HAP emissions limit for one application method and use the same resin(s) for all application methods of that resin type.

#### See Appendices 4, 4B, and 4C

# VII. <u>REPORTING</u>

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. Semiannual Compliance Reporting pursuant to 40 CFR Part 63, Subpart WWWW. Report shall be postmarked or received by March 15 for reporting period July 1 through December 31 and by September 15 for reporting period January 1 through June 30. (40 CFR 63.5910)
- 5. The permittee shall submit semiannual compliance reports according to the procedures specified in Table 14 of 40 CFR Part 63, Subpart WWWW, to the Department in accordance with 40 CFR 63.5910. (40 CFR 63.5910)
- The permittee shall submit a Notification of Compliance Status as specified in 40 CFR 63.9(h) and Table 13 of 40 CFR Part 63, Subpart WWWW. This report shall include certification of work practice standards. (40 CFR 63.9(h), 40 CFR 63.5905(a), 40 CFR 63.5860(a))
- 7. All performance test reports, performance evaluation reports, and semiannual reports must be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (<u>http://cdx.epa.gov</u>). The permittee must use the appropriate electronic report template on the CEDRI website (<u>https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri</u>) pursuant to 40 CFR Part 63, Subpart WWWW. (40 CFR 63.5912)

#### See Appendix 8

# VIII. STACK/VENT RESTRICTION(S)

# IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with the General Provisions as outlined in Table 15 of 40 CFR 63.5925. **(40 CFR 63.5925)**
- 2. The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and WWWW. (40 CFR 63.5800)

#### Footnotes:

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

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

NA

# FGNESHAP ZZZZ FLEXIBLE GROUP CONDITIONS

# DESCRIPTION

**40 CFR Part 63, Subpart ZZZZ** - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, new or reconstructed emergency, compression ignition (CI) RICE greater than 500 brake hp. A RICE is new or reconstructed if the date of installation or modification is after December 19, 2002. 1,135 BHP (2.89 MMBTU/hr) #2 diesel fired compression ignition emergency generator.

Emission Unit: EUGENERATOR

# POLLUTION CONTROL EQUIPMENT

NA

# I. EMISSION LIMIT(S)

NA

# II. MATERIAL LIMIT(S)

 The permittee shall burn only diesel fuel in each engine with a maximum sulfur content of 15 ppm (0.0015 percent) by weight and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. (40 CFR 63.6604(c), 40 CFR 1090.305)

# III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall operate and maintain each engine in FGNESHAP ZZZZ and after-treatment control device (if any) in a manner consistent with good air pollution control practices for minimizing emissions. (40 CFR 63.6605)
- For each engine in FGNESHAP ZZZZ, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. (40 CFR 63.6625(h))
- 3. The permittee may operate each engine in FGNESHAP ZZZZ for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. (40 CFR 63.6640(f)(2))
- 4. Each engine in FGNESHAP ZZZZ may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in SC III.3. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (40 CFR 63.6640(f)(3))

# IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FGNESHAP ZZZZ with non-resettable hours meters to track the operating hours. (R 336.1213(3))

# V. TESTING/SAMPLING

NA

# VI. MONITORING/RECORDKEEPING

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

- 1. For each engine in FGNESHAP ZZZZ, the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. (R 336.1213(3))
- 2. The permittee shall monitor and record, the total hours of operation for each engine in FGNESHAP ZZZZ on a monthly basis, and the hours of operation during emergency and non-emergency service that are recorded through the non-resettable hour meter for each engine in FGNESHAP ZZZZ on a calendar year basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation including what classified the operation as emergency and how many hours are spent for non-emergency operation. The permittee shall keep all records on file and make them available to the department upon request. (R 336.1213(3))
- 3. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FGNESHAP ZZZZ, demonstrating that the fuel meets the requirement of SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. The permittee shall keep all records on file and make them available to the department upon request. (R 336.1213(3), 40 CFR 1090.305)
- 4. The permittee's records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). (40 CFR 63.6660(a))
- 5. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.6660(b))**

# VII. <u>REPORTING</u>

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

#### See Appendix 8

# VIII. STACK/VENT RESTRICTION(S)

NA

## IX. OTHER REQUIREMENT(S)

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

## Footnotes:

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

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

# E. NON-APPLICABLE REQUIREMENTS

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

# **APPENDICES**

# Appendix 1. Acronyms and Abbreviations

	Acronyms and Abbreviations		Pollutont / Mocouromont Abbroviations
400	Common Acronyms		Pollutant / Measurement Abbreviations
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU ℃	British Thermal Unit
CAA	Clean Air Act		Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO <sub>2</sub> e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
СОМ	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/	Michigan Department of Environment,	gr	Grains
department	Great Lakes, and Energy	HAP	Hazardous Air Pollutant
EGLE	Michigan Department of Environment,	Hg	Mercury
	Great Lakes, and Energy	hr	Hour
EU	Emission Unit	HP	Horsepower
FG	Flexible Group	H <sub>2</sub> S	Hydrogen Sulfide
GACS	Gallons of Applied Coating Solids	kW	Kilowatt
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	m	Meter
HVLP	High Volume Low Pressure*	mg	Milligram
ID	Identification	mm	Millimeter
IRSL	Initial Risk Screening Level	MM	Million
ITSL	Initial Threshold Screening Level	MW	Megawatts
LAER	Lowest Achievable Emission Rate	NMOC	Non-methane Organic Compounds
MACT	Maximum Achievable Control Technology	NOx	Oxides of Nitrogen
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	Particulate Matter equal to or less than 10
NA	Not Applicable		microns in diameter
NAAQS	National Ambient Air Quality Standards	PM2.5	Particulate Matter equal to or less than 2.5
	Notice of Englands Of a dead for the endowed		microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pounds per hour
NSPS	New Source Performance Standards	ppm ppmv	Parts per million Parts per million by volume
NSFS	New Source Review		Parts per million by weight
PS	Performance Specification	ppmw %	Percent
PSD	Prevention of Significant Deterioration	<sup>76</sup> psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	•	
PTI	Permit to Install	psig scf	Pounds per square inch gauge
RACT		sec	Standard cubic feet Seconds
ROP	Reasonable Available Control Technology Renewable Operating Permit	SO <sub>2</sub>	Sulfur Dioxide
SC	Special Condition	TAC	
	•		Toxic Air Contaminant
SCR	Selective Catalytic Reduction	Temp	Temperature
SDS	Safety Data Sheet	THC	Total Hydrocarbons
SNCR	Selective Non-Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	μg	Microgram
TEQ	Toxicity Equivalence Quotient	μm	Micrometer or Micron
USEPA/EPA	United States Environmental Protection	VOC	Volatile Organic Compounds
	Agency	yr	Year
VE	Visible Emissions		

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

# Appendix 2. Schedule of Compliance

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

# **Appendix 3. Monitoring Requirements**

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in Part D, FGBOOTHSUMMARY, SC VI.2.

Visual capture efficiency inspections to determine the integrity of the dry filters shall be performed on a daily basis. The visual capture efficiency inspection should determine whether the dry filters are installed and operating properly. The filters should fit snugly and have no gaps or holes. The permittee should also check for leaks and overspray that may escape the filters.

## Appendix 4. Recordkeeping

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

Emission factors used for FGBOOTHSUMMARY recordkeeping shall be obtained from the Unified Emissions Factors for Open Molding of Composites spreadsheet in Appendix 4A.

The permittee shall use Table 1 in Appendix 4B for the recordkeeping requirements referenced in FGNESHAP WWWW. Alternative formats must be approved by the AQD District Supervisor.

Table 2 in Appendix 4C may be used for recordkeeping for FGNESHAP WWWW.

# Appendix 4A. UEF

# UEFunifiedfactorstablerevisedJuly2301.xls

# Unified Emission Factors for Open Molding of Composites July 23, 2001

Emission Rate in Pounds of Styrene Emitted per Ton of Resin or Gelcoat Processed

	1.1	3	2	ž			_			_		_							_
Styrene content in resin/gelcoat, % 📅	<33 ~~	33	34	c,	30	31 3	38 3	39 40	141	47	43	44	40	40	4 <i>L</i>	48	49 3	SU >50 **	_
Manual	0 126 / %etyrene / 2000	83	68	8	100 1	06 1	106 112 117	17 123	3 129	9 134	140	146	152	157	163	169 1	174 1	180 ((0 266 x %slyrene) - 0 0529) x 2000	_
Manual w// Vapor Suppressed Resin VSR 131			Manua	lemiss	ion fact	tor (list	ed show	i × [ə,	(1 - 0	50 x sp	recific V	'SP red	uction 6	actor fo	ir each i	esin/fu	e ssaudo	Manual emission factor [listed above] 🔟 (1 - (3 50 x specific VCP reduction factor for each resinfuppress ent formulation))	_
Mechanical Atomized	0 169 x %:tyrene x 20.00		111 126 140 154 168 183 197 211 225 240 254 268 283 297 311 325 340	140	154 1	68	83 16	97 21	1	5 240	254	268	33	297	311	325	40 3	354 (0.714 x %styrene) - 0.13) x 2000	_
Mechanical Atomized with VSR <sup>(3)</sup>		Mech	anical A	tomized	1 emiss	ion fac	stor (list	tod abo;	ve: x	0 	).45 × 6t	poc ic \	/SR red	luc: cr	factor fo	or each	rs/u/sa	Mechanical Atomized emission factor (lictod above) x (* = {0.45 k cpoc ic VSR reduct or factor for each recinfsuppresent for Jation))	_
Mechanical Atomized Controlled Spray <sup>34</sup>	0.130 x %ctyrene x 2000	88	97	108 119	119 1	130 141	41 15	152 16	163 174	4 185	5 196	196 207 218	218	229	240	251 2	262 273	73 C 77 x ((0.714 ± %ctyreno) 0.18) x 2000	_
Mechanical Controlled Spray with VSR	Mecha	nical At	omized	Control	led Spr	ay emi	ission f	actor [I	listec at	z [əʌoq	- 1) ×	ic 45 x	specific	HSA C	othorpe	n factor	°cr ead	Mechanical Atomized Controlled Spray emission factor (lissic sbove) 🗴 (1 - 10,45 x specific VSF Pd.Jollon factor for agent res r/suppresient formulation )	_
Mechanical Non-Atomized	0.107 x 36±tyrene x 2000	7	74	11	80	8	86 8	89 93	3 96	66	102	105		Ē	108 111 115 118	<u> </u>	121	124 ((0.157 x %styrene) - 0.0165) x 2000	_
Mechanical Non-Atomized with VSR <sup>(3)</sup>		Mechan	cal Non	Atomi	zed emi	ssion	factor [	[listed ai	h tye.	5	(0 45 x	< spec 1	C VS21	reduction	rir facto	r for ea	t resin	Mechanical Non-Atomizad emission factor (Jisle): a b (* - () 45 « speche VS? reduce in factor for each rive seant from fallion))	_
Filament application	0.164.> %-fyrene.> 2100	122	127	133	138 1	144 1	149 15	155 16	160 166	6 171	177	182	188	193	199	204	210 2	215 ((0.2726 × %slyrene) - 0.0298) × 2000	_
Filament application with VSR <sup>13.</sup>	0 120 x %styrene x 2000	79	8	88	6)	83	97 10	100 104	108	8 111	115	118	123	125	129	133 1	136 1	140 0.00 × ((C.2746 x 36tyrene) - C.0296) x 2000	_
Gelcoat Application	0 445 x 36ttyrene x 2000	294	315	336	356 3	377 3	398 41	418 439	9 460	0 481	1 501	522	543	564	584	605	626 6	646 ((1.03645 x % styrene) - 0.195) x 2000	_
Gelcoat Controlled Spray Application <sup>Id</sup>	0 325 x %styrene x 2000	215	230	245	260 2	275 2	290 30	305 321	1 336	6 351	366	381	396	411	427	42	457 4	472 0 72 x ((1 03646 x %styrene) - 0 1951 x 2000	_
Gelcoat Non-Atomized Application 🤃	SEE Note 9 below	196	205	214	223 2	232 2	241 25	250 259	9 268	8 278	3 287	296	305	314	323	332	341 37	350 ((0.4506 × %styrene) 0.0505) < 2000	_
Covered-Cure after Roll-Out				z	on-VSR	t proce	ss emis	Non-VSR process emission factor [listed above] is in but for Manual index to be Mechanical]	actor (II	sted ab.	× [and:	18.1.1	tor Mai	> lisun	CP L	85 for M	echan (	al)	_
Covered-Cure without Roll-Out				z	on-VSF	t proce	ims sse	Non-VSR process emission factor [] sted above: Y (0.50 fbr Varual Kor> 0.55 fbr Vachanical)	actor []	sted ab	00/6_Y	(0.50	i for Vé	r Lal <	OL> 0	55 for V	schanic	ali	_

# Emission Rate in Pounds of Methyl Methacrylate Emitted per Ton of Gelcoat Processed

≥20	0.75 × 36MVA× 2000
19	285
18	270
17	255
16	240
15	225
14	210
13	195
12	180
11	165
10	150
6	135
80	120
2	105
9	6
5	75
4	09
3	45
2	30
1	15
MMA content in gelcoat, % $^{(6)}$	Gel coat application ''

# Notes

1 Including styrene monomer: antiend as supplied, thus any entra styre e monomer adds J up the mol ber, thit before addition of other additives such as proveders, fillers, plass, etc

2 Formula 5 for moderial similar synapperses can the emission as at 2.% isonstant emission for expressed as percent of aceloadie styrere), and for ityrers content 2.% on the emission as at 2.% isonstant emission for expression accurately and for ityrers content of a solution and a for ityrers content of a solution and a for expression accurately accu

The VSR reduction factoring determined by locating each rosin foundus or according to the procedures detailed in the CFA Vapor Suppressant Effectiveness Test.

The effect of vapor suppressants on emissions from "lament wind no operations is based on the Dow Filament Winding Emissions Study.

SEF the July 17, 2001 FECS state Emission Factors for Non-Atomized Application of Gel Coast used in the Open Molding of Composites '1 - 4 scheller 1. Exception of Chile neurole' readers of the set o

SEE the CFA Controlled Spray Handbook for a cetailed decoration of the cartralled saray precedures.

Including MVA montmen content as supplied, plus any exita VVA montmen added by the molder, but bafore accition of other additives such as powders, in leas, glass...etc

Based on geloost date from NMMA Emission Study.

Use the equation (0.4506 x %styrene) = 0.0505) x 2000 for gelocats with signed activent 23% by with a solution 146 x %styrene x 2000 for gelocats with less than 1966 schere orden or yet

If your operation And you use	And you use	With	Use this organic HAP	Use this organic HAP emissions
type is a new or existing			Emissions Factor (EF) Equation for materials with less than 33 percent organic HAP (19 percent organic HAP 204 nonatomized gel coat)	Factor (EF) Equation for materials with 33 percent or more organic HAP (19 pereat for nonatomized gel coat) 234
. open molding operation	a. manual resin application	i. nonvapor-suppressed resin	EF = 0.126 x %HAP x 2000	EF = ((0.286 x %HAP)-0.0529) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.126 x %HAP x 2000 x (1-(0.5 x VSE factor))</pre>	EF = ((0.286 x %HAP)-0.0529) x 2000 x (1-(0.5 x VSE factor))
		<pre>iii. vacuum bagging/closed- mold curing with roll out</pre>	EF = 0.126 x %HAP x 2000 x 0.8	EF = ((0.286 x %HAP)-0.0529) x 2000 x 0.8
		<pre>iv. vacuum bagging/closed- mold curing without roll- out</pre>	EF = (0.126 x %HAP x 2000 x 0.5	EF = ((0.286 x %HAP)-0.0529) x 2000 x 0.5
	<pre>b. atomized mechanical resin application</pre>	i. nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000	EF = ((0.714 x %HAP)-0.18) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.169 x %HAP x 2000 x (1-(0.45 x VSE factor))</pre>	<pre>EF = ((0.714 x %HAP)-0.18) x 2000 x (1-(0.45 x VSE factor))</pre>
		<pre>iii. vacuum bagging/closed- mold curing with roll-out</pre>	EF = 0.169 x %HAP x 2000 x 0.85	EF = ((0.714 x %HAP)-0.18) x 2000 x 0.85
		<pre>iv. vacuum bagging/closed-mold curing without roll-out</pre>	EF = 0.169 × %HAP × 2000 × 0.55	EF = ((0.714 x %HAP)-0.18) x 2000 x 0.55
	<ul> <li>c. nonatomized mechanical resin application</li> </ul>	i. nonvapor-suppressed resin	EF = 0.107 x %HAP x 2000	EF = ((0.157 x %HAP)-0.0165) x 2000
		ii. vapor-suppressed resin	<pre>EF = 0.107 x %HAP x 2000 x (1-(0.45 x VSE factor))</pre>	<pre>EF = ((0.157 x %HAP)-0.0165) x 2000 x (1-(0.45 x VSE factor))</pre>
		<pre>iii. closed-mold curing with     roll-out</pre>	EF = 0.107 × %HAP × 2000 × 0.85	EF = ((0.157 x %HAP)-0.0165) x 2000 x 0.85
		<pre>iv. vacuum bagging/closed-mold</pre>	EF = 0.107 × %HAP × 2000 × 0.55	EF = ((0.157 x %HAP)-0.0165) x 2000 x 0.55
	<ul> <li>atomized mechanical</li> <li>resin application with</li> <li>robotic or automated</li> <li>spray control</li> </ul>	nonvapor-suppressed resin	EF = 0.169 x %HAP x 2000 x 0.77	EF = 0.77 x ((0.714 x %HAP)-0.18) x 2000
	e. filament application <sup>6</sup>	i. nonvapor-suppressed resin	EF = 0.184 × %HAP × 2000	EF = ((0.2746 x %HAP)-0.0298) x 2000
		ii. vapor-suppressed resin	EF = 0.12 × %HAP × 2000	EF = ((0.2746 x %HAP)-0.0298) x 2000 x 0.65
	f. atomized spray gel coat	nonvapor-suppressed gel	$EF = 0.445 \times $ \$HAP x 2000	EF = ((1.03646 x %HAP)-0.195) x 2000

# Appendix 4B. Table 1

											11110.	MIT 11 100000 2022
EF = ((0.4506 x %HAP)-0.0505) x 2000	EF = ((1.03646 × %HAP)-0.195) × 2000 × 0.73	EF = 0.558 x (%HAP) x 2000	EF = 0.026 × (%HAP) × 2000		in calculating emission factors to demonstrate compliance with the emission limits in subpart WWWW. hod to calculate emission estimates for other purposes. However, this does not preclude a facilit emission factors for purposes other then rule compliance if these equations are the most accurate	cor value for an operation with an add-on control device multiply the EF above by the add-on control factor The organic HAP emissions factors have units of lbs of organic HAP per ton of resin or gel coat applied.	and any other organic HAP) in the resin or gel coat prior to i.e., 33 percent HAP should be input as 0.33, not 33.	SE test method of appendix A to this	or equation developed for mechanical atomized controlled spray. It may only be used for All spray operations using hand held spray guns must use the appropriate mechanical atomized quation. Automated or robotic spray systems using nonatomized spray should use the ation.	' gun, use the appropriate manual or	Centrifugal casting operations where the mold is	<sup>8</sup> If a centrifugal casting operation uses mechanical or manual resin application techniques to apply resin to an open centrifugal casting mold, use the appropriate open molding equation with covered cure and no rollout to determine an emission factor for operations prior to the closing of the centrifugal casting mold. If the closed centrifugal casting mold is vented during spinning, use the appropriate centrifugal casting equation to calculate an emission factor for operation of the protulate an emission factor for the portion of the process where spinning and cure occur. If a centrifugal casting operation uses mechanical or calculate an emission techniques to apply resin to an open centrifugal casting mold, and the mold is then closed and is not vented, treat the manual resin application as open molding with covered cure and no rollout to determine emission factors.
EF = 0.185 x %HAP x 2000	EF = 0.445 x %HAP x 2000 x 0.73	EF = 0.558 x (%HAP) x 2000	EF = 0.026 x (%HAP) x 2000		i to demonstrate compliance wi mates for other purposes. Ho other then rule compliance i	n control device multiply the units of lbs of organic HAP p	late, and any other organic HAP) in the resin imal, i.e., 33 percent HAP should be input as	s a decimal measured by the V	mechanical atomized controll ng hand held spray guns must botic spray systems using non	applied manually or with a spray		techniques to apply resin to a ne an emission factor for ope g spinning, use the appropria re occur. If a centrifugal c mold, and the mold is then c lission factors.
nonvapor-suppressed gel coat	nonvapor-suppressed gel coat	nonvapor-suppressed resin	nonvapor-suppressed resin		t calculating emission factors od to calculate emission estin emission factors for purposes	for an operation with an add-or uic HAP emissions factors have 1	HAP (styrene, methyl methacrylate, Input the percent HAP as a decimal,	anic HAP emissions expressed as a decimal measured by the VSE test method of appendix	factor equation developed for ay. All spray operations usi or equation. Automated or rol equation.	If resin is	ions where the mold is vented ed to be closed molding opera	L or manual resin application techniques to a cure and no rollout to determine an emission 1 casting mold is vented during spinning, use process where spinning and cure occur. If a to an open centrifugal casting mold, and the and no rollout to determine emission factors.
g. nonatomized spray gel coat application	h. atomized spray gel coat application using robotic or automated spray	a. heated air blown through molds	b. vented molds, but air vented through the molds is not heated	Т	<sup>1</sup> The equations in this table are intended for use in calculating emission factors to demonstrate complianc. These equations may not be the most appropriate method to calculate emission estimates for other purposes. from using the equations in this table to calculate emission factors for purposes other then rule complianc available.	<sup>2</sup> To obtain the organic HAP emissions factor value for calculated using Equation 1 of §63.5810. The organi	<sup>3</sup> Percent HAP means total weight percent of organic l the addition of fillers, catalyst, and promoters. II	$^{4}$ The VSE factor means the percent reduction in organ subpart.	<sup>5</sup> This equation is based on a organic HAP emissions factor equation developed for mechanical atomized controlled spray. automated or robotic spray systems with atomized spray. All spray operations using hand held spray guns must use the ap or mechanical nonatomized organic HAP emissions factor equation. Automated or robotic spray systems using nonatomized s appropriate nonatomized mechanical resin application equation.	<sup>6</sup> Applies only to filament application using an open resin bath. mechanical application organic HAP emissions factor equation.	<sup>7</sup> These equations are for centrifugal casting operations where the mold is vented during spinning. completely sealed after resin injection are considered to be closed molding operations.	<sup>8</sup> If a centrifugal casting operation uses mechanical or manual resin application techniques the appropriate open molding equation with covered cure and no rollout to determine an emis centrifugal casting mold. If the closed centrifugal casting mold is vented during spinning calculate an emission factor for the portion of the process where spinning and cure occur. manual resin application techniques to apply resin to an open centrifugal casting mold, and entire operation as open molding with covered cure and no rollout to determine emission fac
		2. centrifugal casting <sub>78</sub>	operations	Footnotes to Table 1	<sup>1</sup> The equations in t These equations may from using the equal available.	<sup>2</sup> To obtain the org calculated using Eq	<sup>3</sup> Percent HAP means the addition of fil	<sup>4</sup> The VSE factor me subpart.	<sup>5</sup> This equation is automated or roboti or mechanical nonat appropriate nonatom	<sup>6</sup> Applies only to f mechanical applicat	<sup>7</sup> These equations a completely sealed a	<sup>8</sup> If a centrifugal casting the appropriate open moldi centrifugal casting mold. calculate an emission fact manual resin application t entire operation as open m

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# Appendix 4C. Table 2

# TABLE 2

Monthly Recordkeeping for 40 CFR Part 63, Subpart WWWW (FGNESHAP WWWW) Permittee may choose to use the following table in order to show compliance with 40 CFR Part 63, Subpart WWWW

Resin	Month/Year	Organic HAP Content	Emission Factor* (lb/ton)
<u> </u>			
Gel Coat	Month/Year	Organic HAP Content	Emission Factor* (lb/tor

\*Use the emission factor from Table 1 to 40 CFR Part 63, Subpart WWWW (included in this appendix)

# Appendix 5. Testing Procedures

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

# Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-N5599-2017. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (\*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-N5599-2017 is being reissued as Source-Wide PTI No. MI-PTI-N5599-2022.

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

# **Appendix 7. Emission Calculations**

The permittee shall use the calculations shown in Appendix 4 in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in FGBOOTHSUMMARY Flexible Group Conditions.

## Appendix 8. Reporting

#### A. Annual, Semiannual, and Deviation Certification Reporting

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

#### B. Other Reporting

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