

FedEx: 770284991768
Direct Signature Required



October 24, 2022

Michigan Department of Environment, Great Lakes, and Energy
Air Quality Division
3058 West Grand Blvd.
Detroit, MI 48202

Attn: District Office Supervisor

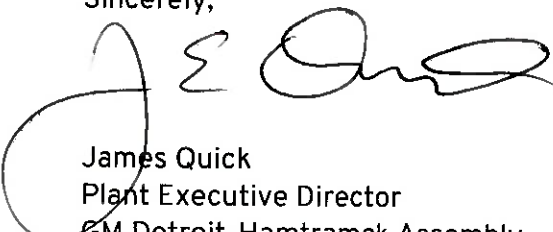
RE: General Motors LLC Detroit-Hamtramck Assembly/Factory ZERO
Title V ROP: MI-ROP-M4199-2010
ROP Renewal Application Update

Please find the following Title V Renewable Operating Permit updated renewal application documents enclosed.

- Permit to Install Exempt Emission Unit Information - Part D
- AI-Part D Form
- C-001 Form
- Updated ROP Mark-up

If you have any questions or need additional information, please contact Maggie Marinkovski at (313) 480-5164 or margaret.marinkovski@gm.com.

Sincerely,



James Quick
Plant Executive Director
GM Detroit-Hamtramck Assembly

Enclosures

general motors

2500 E. Grand Blvd. / Detroit, MI 48211 / www.gm.com

PART D: PERMIT TO INSTALL (PTI) EXEMPT EMISSION UNIT INFORMATION

Review all emission units at the source and answer the question below.

D1. Does the source have any emission units that do not appear in the existing ROP but are required to be listed in the ROP application under R 336.1212(4) (Rule 212(4)) of the Michigan Air Pollution Control Rules? If Yes, identify the emission units in the table below. Yes No

If No, go to Part E.

Note: Emission units that are subject to process specific emission limitations or standards, even if identified in Rule 212, must be captured in either Part G or H of this application form. Identical emission units may be grouped (e.g. PTI exempt Storage Tanks).

Emission Unit ID	Emission Unit Description	Rule 212(4) Citation [e.g. Rule 212(4)(c)]	Rule 201 Exemption Rule Citation [e.g. Rule 282(2)(b)(i)]
EUEPCPH1	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH2	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH3	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH4	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH5	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH6	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH7	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)
EUEPCPH8	Cleaver-Brookers, ClearFire-LC 8mmBtu/hr Natural Gas Condensing Boiler	Rule 212(4)(c)	Rule 282(2)(b)(i)

Comments:

Check here if an AI-001 Form is attached to provide more information for Part D. Enter AI-001 Form ID: **AI-Part D**



RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Please type or print clearly. Refer to instructions for additional information to complete this form.

SRN: M4199	Section Number (if applicable): N/A
------------	-------------------------------------

1. Additional Information ID
AI-Part D

Additional Information

2. Is This Information Confidential? Yes No

MI-ROP-M4199-2010:

Emission Units/Flexible Group ID(s):

FGBOILERMACT

Description (Include Process Equipment, Control Devices and Monitoring Devices):

Installation of 8 – 8mmBTU/hr natural gas boilers in the powerhouse to provide heated water to the Factory Zero facility for comfort cooling and process water.

Date Emission Unit was Installed/ Modified/Reconstructed:

10/12/2022

See attached marked-up ROP.



**RENEWABLE OPERATING PERMIT APPLICATION
C-001: CERTIFICATION**

This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to provide this information may result in civil and/or criminal penalties. Please type or print clearly.

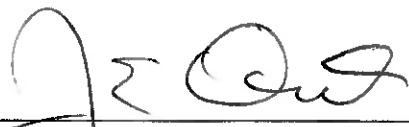
This form is completed and included as part of Renewable Operating Permit (ROP) initial and renewal applications, notifications of change, amendments, modifications, and additional information.

Form Type C-001	SRN M4199
-----------------	-----------

Stationary Source Name General Motors LLC Detroit Hamtramck Assmebly	
City Detroit	County Wayne

SUBMITTAL CERTIFICATION INFORMATION	
1. Type of Submittal <i>Check only one box.</i>	
<input type="checkbox"/> Initial Application (Rule 210)	<input type="checkbox"/> Notification / Administrative Amendment / Modification (Rules 215/216)
<input checked="" type="checkbox"/> Renewal (Rule 210)	<input type="checkbox"/> Other, describe on AI-001
2. If this ROP has more than one Section, list the Section(s) that this Certification applies to <u>N/A</u>	
3. Submittal Media <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Disk <input checked="" type="checkbox"/> Paper	
4. Operator's Additional Information ID - Create an Additional Information (AI) ID that is used to provide supplemental information on AI-001 regarding a submittal. AI Part D	

CONTACT INFORMATION	
Contact Name Maggie Marinkovski	Title Environmental Engineer
Phone number 313-480-5164	E-mail address Margaret.marinkovski@gm.com

This form must be signed and dated by a Responsible Official.				
Responsible Official Name James Quick			Title Plant Executive Director	
Mailing address 2500 E Grand Blvd				
City Detroit	State MI	ZIP Code 48211	County Wayne	Country d
As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this submittal are true, accurate and complete.				
 _____ Signature of Responsible Official			<u>10/24/22</u> _____ Date	



Michigan Department of Environmental Quality
Air Quality Division

EFFECTIVE DATE:

ISSUED TO

General Motors LLC, Detroit-Hamtramck/Factory ZERO

State Registration Number (SRN): M4199

LOCATED AT

2500 E. Grand Blvd. Detroit, Michigan 48211

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-M4199-

Expiration Date:

Administratively Complete ROP Renewal Application Due Between
and

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-M4199-

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

Teresa Seidel, Southeast Michigan District Supervisor

TABLE OF CONTENTS

AUTHORITY AND ENFORCEABILITY	5
SECTION 1.....	6
A. GENERAL CONDITIONS	7
Permit Enforceability	7
General Provisions	7
Equipment & Design	8
Emission Limits.....	8
Testing/Sampling.....	8
Monitoring/Recordkeeping.....	9
Certification & Reporting.....	9
Permit Shield	10
Revisions	12
Reopenings	12
Renewals.....	13
Stratospheric Ozone Protection	13
Risk Management Plan.....	13
Emission Trading.....	13
Permit To Install (PTI).....	14
B. SOURCE-WIDE CONDITIONS	15
C. EMISSION UNIT CONDITIONS	16
EMISSION UNIT SUMMARY TABLE.....	16
EUPRETREAT.....	21
EUELPO.....	23
EUPRIMER.....	26
EUMISCSOLVENTS.....	29
EUSEALERS	31
EUFLUIDFILL.....	33
EUFNLRPR2020	35
EUGLASSBOND	37
EUPHFPENG	39
D-1. FLEXIBLE GROUP CONDITIONS.....	44
<i>FLEXIBLE GROUP SUMMARY TABLE.....</i>	<i>44</i>
FGAUTOASSEMBLY.....	47
FGCONTROLS.....	54
FGAUTOMACT.....	57
FGBOILERMACT	61
FGNGEQUIP	64
FGTOPCOAT	67
<i>FGCOLDCLEANERS.....</i>	<i>74</i>
FG-EMERGENCYRICE	74
FGRULE287(c).....	78
<i>FGRULE290.....</i>	<i>78</i>

E. NON-APPLICABLE REQUIREMENTS	79
APPENDICES	80
Appendix 1-1: Abbreviations and Acronyms.....	80
Appendix 1-2. Schedule of Compliance	81
Appendix 1-3. Monitoring Requirements	81
Appendix 1-4. Recordkeeping.....	81
Appendix 1-5. Testing Procedures	81
Appendix 1-6. Permits to Install	81
Appendix 1-7. Emission Calculations	82
Appendix 1-8. Reporting	83
SECTION 2.....	85
A. GENERAL CONDITIONS	85
Permit Enforceability	85
General Provisions	85
Equipment & Design	85
Emission Limits.....	85
Testing/Sampling.....	85
Monitoring/Recordkeeping	85
Certification & Reporting	85
Permit Shield	85
Revisions	85
Reopenings	85
Renewals.....	85
Stratospheric Ozone Protection	85
Risk Management Plan.....	85
Emission Trading.....	85
Permit To Install (PTI).....	85
B. SOURCE-WIDE CONDITIONS	85
C. EMISSION UNIT CONDITIONS	85
EMISSION UNIT SUMMARY TABLE.....	85
EUHOPPER	85
D. FLEXIBLE GROUP CONDITIONS.....	85
FLEXIBLE GROUP SUMMARY TABLE.....	85
FGPOWERHOUSE	85
FGASHSYSTEM.....	85
FGTEMPBOILERS	85
FG-BOILERMACT	85
E. NON-APPLICABLE REQUIREMENTS	85
APPENDICES	0
Appendix 2-1: Abbreviations and Acronyms.....	0
Appendix 2-2. Schedule of Compliance	0
Appendix 2-3. Monitoring Requirements	0
Appendix 2-4. Recordkeeping.....	0

Appendix 2-5. Testing Procedures	0
Appendix 2-6. Permits to Install	0
Appendix 2-7. Emission Calculations	0
Appendix 2-8. Reporting	0

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 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.

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

STATE OF MICHIGAN RENEWABLE OPERATING PERMIT

SECTION 1

**General Motors
Hamtramck Assembly Plant**

SRN:M4199

LOCATED AT

2500 E. General Motors Blvd.

Permit Number: MI-ROP-M4199-

Effective Date:

Expiration Date:

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), R336.1214a(5))**
- Those conditions that are hereby incorporated in federally enforceable Source- wide PTI No. MI-PTI-M4199- 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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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))**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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

Risk Management Plan

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

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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).

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

B. SOURCE-WIDE CONDITIONS

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

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

C. EMISSION UNIT CONDITIONS

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

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

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUPRETREAT	Pretreatment of vehicle surface to prepare it for coating, consisting of a series of dip tanks and rinse stages, followed by a deionized water rinse.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT
EUELPO	An electrodeposition coating process (ELPO) consisting of a coating dip tank, followed by a series of rinse tanks, and two (2) natural gas-fired ELPO curing ovens, each with a cooling zone. Repairs will take place in an ELPO sand booth to correct minor imperfections. Emissions from the coating tank and the curing oven are controlled by a bank of RTOs.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUPRIMER	A prep area, an automatic primer booth for application of solventborne main primer and solventborne two-tone primer, a primer observation zone, an ambient flash-off area, two (2) natural gas-fired primer curing ovens, each with a cooling tunnel, and a booth for manual wet sanding repair to correct surface blemishes.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUTOPCOAT1	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUTOPCOAT2	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUTOPCOAT3	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUTOPCOAT4	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUTOPCOAT5	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	07-21-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUTOPCOAT6	An automatic topcoat spray application process consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, an observation zone, and a natural gas-fired curing oven.	04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL
EUMISCSOLVENTS	Various cleaning solvents, miscellaneous solvents, and purge solvents used throughout the Detroit-Hamtramck Assembly Plant.	06-28-2021 / 04/15/2022	FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUSEALERS	Various manual and robotic sealer, adhesive, and sound deadener material application stations/booths. Sealers, fillers, and liquid applied sound deadener materials applied in the paint shop after the ELPO and prior to primer application will be air-dried prior to further curing in the primer curing ovens. VOC emissions released in the primer curing ovens will be controlled by the appropriate RTO(s). This emission unit also includes sealers and adhesives applied in the body shop, battery assembly process, and general assembly area. Sealers and adhesives applied in the body shop, battery assembly, and general assembly areas are air-dried and emissions are emitted to the general in-plant environment.	04-15-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGAUTOMACT, FGCONTROL
EUFLUIDFILL	Each new vehicle will be filled with various fluids such as antifreeze, brake fluid, and windshield washer fluid.	07-21-2021 / 04/15/2022	FGAUTOASSEMBL Y
EUFNLRPR2020	Final repair operations including a coating area.	07-21-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGAUTOMACT, FGCONTROL
EUGLASSBOND	Installation of glass to the coated automobile in the final assembly area. Glass bonding emissions are emitted to the general in-plant environment.	07-21-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGAUTOMACT
EUHWG1	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the PTED area.	07-15-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP
EUHWG2	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the PTED area.	07-15-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP
EUHWG3	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the PTED area.	07-15-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP
EUHWG4	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the paint shop penthouse.	06-28-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP
EUHWG5	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the paint shop penthouse.	06-28-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP
EUHWG6	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the paint shop penthouse.	06-28-2021 / 04/15/2022	FGAUTOASSEMBL Y, FGBOILERMACT, FGNGEQUIP

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUEPCPH1	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH2	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH3	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH4	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH5	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH6	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH7	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUEPCPH8	Hot water generator with a maximum heat input rating of 8 MMBtu/hr located in the Powerhouse	10/12/2022	FGBOILERMACT
EUNGHEAT	All new natural gas-fired spaceheaters, air handling units (AHU), air supply houses (ASH), dock heaters and other miscellaneous heaters. This equipment was added as part of the reconstructed automotive manufacturing project.	06-01-2021 / 04/15/2022	FGAUTOASSEMBLY, FGNGEQUIP
Each cold cleaner	Each cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 281(h) or Rule 285(r)(iv).	NA	FGCOLDCLEANERS

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-ENGINE3	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE4	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE5	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-EMENG7	A 346 kilowatts (kW) diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <30 liters/cylinder.	04/15/2022	FGEMENGINES
EU-EMENG8	A 346 kilowatts (kW) diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <30 liters/cylinder.	05-01-2021 / 04/15/2022	FGEMENGINES
EU-EMENG9	A 346 kilowatts (kW) diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <30 liters/cylinder.	04/15/2022	FGEMENGINES
EUPHFPENG	A 315 kilowatt (kW) diesel-fired emergency fire pump.	04/15/2022	
EU-ADMINFIREPUMP	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGDATACTR	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	2004	FG-EMERGENCYRICE

EUPRETREAT EMISSION UNIT CONDITIONS
--

DESCRIPTION

Pretreatment of vehicle surface to prepare it for coating, consisting of a series of dip tanks and rinse stages, followed by a deionized water rinse.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the materials, as added to the EUPRETREAT system, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the materials, as added to EUPRETREAT shall be verified by testing using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

VII. REPORTING

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

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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))

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. SVR1 (Entry Seal Exhaust)	20	75	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVR2 (Exhaust Stage 1B)	24	75	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVR3 (Exhaust Stage 4)	18	75	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUELPO EMISSION UNIT CONDITIONS

DESCRIPTION

An electrodeposition coating process (ELPO) consisting of a coating dip tank, followed by a series of rinse tanks, and two (2) natural gas-fired ELPO curing ovens, each with a cooling zone. Repairs will take place in an ELPO sand booth to correct minor imperfections. Emissions from the coating tank and the curing ovens are controlled by a bank of RTOs.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROLS

POLLUTION CONTROL EQUIPMENT

A bank of two RTOs (RTO 210 and RTO 220) for control of VOC emissions from the coating tank and curing ovens. The cooling tunnels are exhausted to atmosphere.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the electrodeposition tank and curing oven portions of EUELPO unless the appropriate RTO portions of FGCONTROL as specified in Appendix 1-9 are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of each respective RTO includes: **(R 336.1225, R 336.1702, R 336.1910)**
 - a) A minimum retention time of 0.5 seconds.
 - b) Maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed.
 - c) After the acceptable performance test has been performed, maintaining the RTO combustion chamber temperature, based upon a three-hour average, at the temperature during the most recent control device performance test which demonstrated compliance with either:
 - i. During the initial low production period as specified in FGAUTOASSEMBLY SC III.1, a VOC outlet concentration of less than or equal to 7 ppm as propane, or
 - ii. After the initial low production period ends as specified in FGAUTOASSEMBLY SC III.1, a minimum 95 percent destruction efficiency.

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EUELPO tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EULPO tank shall be verified by testing using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component used in EUELPO. The data may consist of 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 and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

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. SVR7 (Oven Cooler #1)	54	75	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVR8 (Oven Cooler #2)	54	75	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVR56 (Combined stack of two-bank RTOs serving ELPO tank, all ovens, and all heated flash)	90	126	R 336.1225, 40 CFR 52.21(c) & (d)

4. The sand booth portion of EUELPO shall not be directly discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUELPO, except as provided in FGAUTOASSEMBLY SC IX.2. (40 CFR 60.390)

Footnotes:

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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

EUPRIMER EMISSION UNIT CONDITIONS
--

DESCRIPTION

A prep area, an automatic primer booth for application of solventborne main primer and solventborne two-tone primer, a primer observation zone, an ambient flash-off area, two (2) natural gas-fired primer curing ovens, each with a cooling tunnel, and a booth for manual wet sanding repair to correct surface blemishes.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROLS

POLLUTION CONTROL EQUIPMENT

Primer coating booth overspray is controlled by a waterwash particulate control system. The exhaust from the primer coating booth and observation zone is controlled by a bank of three RTOs (RTO 110, RTO 120, and RTO 130) for control of VOCs. Primer curing oven emissions are exhausted to a bank of two RTOs (RTO 210 and RTO 220) for control of VOC emissions. The cooling tunnels are exhausted to the atmosphere.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, observation zone, or curing oven portions of EUPRIMER unless the appropriate RTO portions of FGCONTROLS as specified in Appendix 1-9 are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of each respective RTO includes: **(R 336.1225, R 336.1702, R 336.1910)**
 - a) A minimum retention time of 0.5 seconds.
 - b) Maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed.
 - c) After the acceptable performance test has been performed, maintaining the RTO combustion chamber temperature, based upon a three-hour average, at the temperature during the most recent control device performance test which demonstrated compliance with either:
 - i. During the initial low production period as specified in FGAUTOASSEMBLY SC III.1, a VOC outlet concentration of less than or equal to 7 ppm as propane, or
 - ii. After the initial low production period ends as specified in FGAUTOASSEMBLY SC III.1, a minimum 95 percent destruction efficiency.
2. The permittee shall not operate the primer spray booth of EUPRIMER unless the waterwash system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the waterwash particulate system includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

V. TESTING/SAMPLING

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

1. The VOC content, water content, and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

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. SVR13 (Oven Cooler #1)	64	48	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVR15 (Oven Cooler #2)	64	48	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVR55 (Combined stack of three-bank RTOs serving all booths and all observation zones)	108	126	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVR56 (Combined stack of two-bank RTOs serving ELPO tank, all ovens, and all heated flash)	90	126	R 336.1225, 40 CFR 52.21(c) & (d)

5. The exhaust gases from the sand booth portion of EUPRIMER shall not be discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUPRIMER, except as provided in FGAUTOASSEMBLY SC IX.2. **(40 CFR 60.390)**

Footnotes:

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

EUMISCSOLVENTS EMISSION UNIT CONDITIONS
--

DESCRIPTION

Various cleaning solvents, miscellaneous solvents, and purge solvents used throughout the Detroit-Hamtramck Assembly Plant.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT

POLLUTION CONTROL EQUIPMENT

The portion of solventborne purge used inside the primer and clearcoat spray booths during the vehicle painting operation will be captured and recovered in a purge solvent collection system. The portion of solventborne purge used inside the booths during the vehicle painting operation that is not captured in the purge solvent collection system is controlled by a bank of three RTOs (RTO 110, RTO 120, and RTO 130). The waterborne purge used in the basecoat spraybooth during the vehicle painting operation is controlled by a bank of three RTOs (RTO 110, RTO 120, and RTO 130).

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not conduct any purging operations in the coating booth portions of EUPRIMER and FGTOPCOAT during vehicle painting operation unless the appropriate RTO portions of FGCONTROLS as specified in Appendix 1-9 are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of each respective RTO includes: **(R 336.1225, R 336.1702, R 336.1910)**
 - a) A minimum retention time of 0.5 seconds.
 - b) Maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed.
 - c) After the acceptable performance test has been performed, maintaining the RTO combustion chamber temperature, based upon a three-hour average, at the temperature during the most recent control device performance test which demonstrated compliance with either:
 - i. During the initial low production period as specified in FGAUTOASSEMBLY SC III.1, a VOC outlet concentration of less than or equal to 7 ppm as propane, or
 - ii. After the initial low production period ends as specified in FGAUTOASSEMBLY SC III.1, a minimum 95 percent destruction efficiency.

V. TESTING/SAMPLING

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

NA

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

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. SVPURGERECL (Purge Solvent Reclaim Tank)*	3	38	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVR55 (Combined stack of three-bank RTOs serving all booths and all observation zones)	108	126	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVR59 (Dip Skid Cleaner)	32	80	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVR60 (Paint Skid Cleaner)	32	60	R 336.1225, 40 CFR 52.21(c) & (d)
*This stack is obstructed			

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUSEALERS EMISSION UNIT CONDITIONS

DESCRIPTION

Various manual and robotic sealer, adhesive, and sound deadener material application stations/booths. Sealers, fillers, and liquid applied sound deadener materials applied in the paint shop after the ELPO and prior to primer application will be air-dried prior to further curing in the primer curing ovens. VOC emissions released in the primer curing ovens will be controlled by the appropriate RTO(s). This emission unit also includes sealers and adhesives applied in the body shop, battery assembly process, and general assembly area. Sealers and adhesives applied in the body shop, battery assembly, and general assembly area are air-dried and emissions are emitted to the general in-plant environment.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROL

POLLUTION CONTROL EQUIPMENT

A bank of two RTOs (RTO 210 and RTO 220) to control VOC emissions from the sealers cured in the primer curing ovens.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the primer curing oven portion of EUSEALERS unless the appropriate RTO portions of FGCONTROLS as specified in Appendix 1-9 are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of each respective RTO includes: **(R 336.1225, R 336.1702, R 336.1910)**
 - a) A minimum retention time of 0.5 seconds.
 - b) Maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed.
 - c) After the acceptable performance test has been performed, maintaining the RTO combustion chamber temperature, based upon a three-hour average, at the temperature during the most recent control device performance test which demonstrated compliance with either:
 - i. During the initial low production period as specified in FGAUTOASSEMBLY SC III.1, a VOC outlet concentration of less than or equal to 7 ppm as propane, or
 - ii. After the initial low production period ends as specified in FGAUTOASSEMBLY SC III.1, a minimum 95 percent destruction efficiency.

V. TESTING/SAMPLING

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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

1. The VOC content, water content and density of any material as applied in EUSEALERS, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any sealer, adhesive, or deadener material shall be verified by testing using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

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. SVR56 (Combined stack of two-bank RTOs serving ELPO tank, all ovens, and all heated flash)	90	126	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUFLUIDFILL
EMISSION UNIT CONDITIONS**

DESCRIPTION

Each new vehicle will be filled with various fluids such as antifreeze, brake fluid, and windshield washer fluid.

Flexible Group ID: FGAUTOASSEMBLY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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:

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUFNLRPR2020
EMISSION UNIT CONDITIONS

DESCRIPTION

Final repair operations including a coating area.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT, FGCONTROLS

POLLUTION CONTROL EQUIPMENT

Dry filter particulate control system

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUFNLRPR2020 unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUFNLRPR2020, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

VII. REPORTING

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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))
- 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. SVFR1 (Final Repair Stack 1)	46	50	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVFR2 (Final Repair Stack 2)	46	50	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUGLASSBOND EMISSION UNIT CONDITIONS

DESCRIPTION

Installation of glass to the coated automobile in the final assembly area. Glass bonding emissions are emitted to the general in-plant environment.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any material as applied in EUGLASSBOND, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any material shall be verified by testing using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each glass bonding material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

VII. REPORTING

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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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))

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:

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUPHFPENG
EMISSION UNIT CONDITIONS**

DESCRIPTION

One 315 kilowatt (kW) diesel-fueled fire pump engine

Flexible Groups: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC ^A + NO _x	3.0 g/hp-hr ^B	Hourly	EUPHFPENG	SC VI.2	40 CFR 60.4205(c), Table 4 of 40 CFR Part 60 Subpart IIII
2. CO	2.6 g/hp-hr ^B	Hourly	EUPHFPENG	SC VI.2	40 CFR 60.4205(c), Table 4 of 40 CFR Part 60 Subpart IIII
3. PM	0.15 g/hp-hr ^B	Hourly	EUPHFPENG	SC VI.2	40 CFR 60.4205(c), Table 4 of 40 CFR Part 60 Subpart IIII

^ANMHC = non-methane hydrocarbon

^BThese emission limits are for certified engines; if testing becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c).

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in EUPHFPENG with the 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. (R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 1090.305)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUPHFPENG for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. (R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 52.21 (c) & (d))
2. The permittee may operate EUPHFPENG 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 60.4211(f)(2))**

3. The permittee may operate EUPHPENG up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as provided in §60.4211(f)(2). Except as provided in §60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f)(3))**
4. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart IIII, for the same model year, the permittee shall meet the following requirements for EUPHPENG:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Change only those emission related settings that are permitted by the manufacturer.
 - c) Meet the requirements as specified in 40 CFR 1068, as they apply to EUPHPENG.

If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4211(a), R 336.1702)**

5. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for EUPHPENG and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(2), R 336.1702)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EUPHPENG with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4209(a))**
2. The maximum nameplate engine power of EUPHPENG shall not exceed 422 HP. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a))**

V. TESTING/SAMPLING

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

1. If EUPHPENG is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.
 - b) If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212.

No less than 30 days prior to testing, 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. **(40 CFR 60.4211(g)(2), 40 CFR 60.4212)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep all required records and calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a)&(b), R 336.1225, 40 CFR 52.21 (c) & (d), 40 CFR Part 60 Subpart IIII)**
2. The permittee shall keep, in a satisfactory manner, the following records for EUPHPENG:
 - a) For a certified engine: The permittee shall keep records of the manufacturer certification documentation.
 - b) For an uncertified engine: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for EUPHPENG:
 - a) For a certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.4.
 - b) For an uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.5, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

4. The permittee shall keep, in a satisfactory manner, test reports for EUPHPENG, as required by SC V.1, on file at the facility. The permittee shall make the records available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.2001, R 336.2003, R 336.2004)**
5. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EUPHPENG, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of EUPHPENG, including what classified the operation as emergency. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 60.4211, 40 CFR 60.4214)**
6. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data for diesel fuel oil used in EUPHPENG demonstrating that the fuel meets the requirement of 40 CFR 1090.305. 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 make the records available to the Department upon request. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4207(b), 40 CFR 1090.305)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit a notification specifying whether EUPHPENG will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(R 336.1201(3))**

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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. SVPHFP_NEW	6	8	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart A and Subpart IIII, as they apply to EUPHFPENG. **(40 CFR Part 60 Subparts A & IIII, 40 CFR 63.6590(c)(6))**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart ZZZZ, as they apply to EUPHFPENG. **(40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6595)**

Footnotes:

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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

D-1. 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
FGAUTOASSEMBLY	This flexible group covers equipment used for the automotive assembly and painting operations for the entire Detroit-Hamtramck Assembly Plant.	EUPRETREAT, EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUMISCSOLVENTS, EUSEALERS, EUFLUIDFILL, EUFNLRPR2020, EUGLASSBOND, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUNGHEAT
FGCONTROLS	Control equipment associated with the reconstructed automotive manufacturing process at the Detroit-Hamtramck Assembly Plant.	EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUSEALERS, EUMISCSOLVENTS, EUFNLRPR2020

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGAUTOMACT	Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment.	EUPRETREAT, EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUGLASSBOND, EUMISCSOLVENTS, EUSEALERS, EUFNLRPR2020
FGBOILERMACT	Requirements for six new process heaters with a heat input capacity of <10 MMBTU/hr for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). These process heaters are designed to burn natural gas.	EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUEPCPH1, EUEPCPH2, EUEPCPH3, EUEPCPH4, EUEPCPH5, EUEPCPH6, EUEPCPH7, EUEPCPH8
FGNGEQUIP	All new natural gas-fired equipment installed at the Detroit-Hamtramck Assembly Plant as part of the reconstructed automotive manufacturing project, including dock heaters, hot water generators, cure ovens, RTOs, and Air Handling Units/Air Supply Houses.	EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUNGHEAT
FGTOPCOAT	An automatic topcoat spray application process with a maximum of six modular topcoat processes, each consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, a clearcoat observation zone, and a natural gas-fired curing oven	EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6
FGEMENGINES	Three 346 kilowatts (kW) diesel-fueled emergency engines. All are model year of 2011 or later, and a displacement of <30 liters/cylinder.	EUEMENG7, EUEMENG8, EUEMENG9

General Motors
 Hamtramck
 source not found.

ROP No: MI-ROP-M4199-
 Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-EMERGENCYRICE	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE). Title 40 of the Code of Federal Regulations (CFR), Part 63, Subpart ZZZZ (40 CFR 63.6580-6675). The engines are regulated as existing compression ignition (CI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGINE3, EU-ENGINE4, EU-ADMINFIREPUMP), greater than 500 brake horse power (HP) (EU-ENGINE5), and existing spark ignition (SI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-DATACENTER) located at a Major Source of HAP emissions	EU-ENGINE3 EU-ENGINE4 EU-ENGINE5 EU-ADMINFIREPUMP EU-ENGDATACTR

**FGAUTOASSEMBLY
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group covers equipment used for the automotive assembly and painting operations for the entire Detroit-Hamtramck Assembly Plant.

Emission Unit: EUPRETREAT, EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUMISCSOLVENTS, EUSEALERS, EUFLUIDFILL, EUFNLRPR2020, EUGLASSBOND, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUNGHEAT

POLLUTION CONTROL EQUIPMENT

One bank of three RTOs (RTO 110, RTO 120, and RTO 130) used for control of VOC exhaust from primer booth, all basecoat booths, all clearcoat booths, and all observation zones. One bank of two RTOs (RTO 210 and RTO 220) used for control of VOC emissions from the ELPO tank, ELPO oven, primer curing ovens, basecoat heated flash-off areas, and all topcoat curing ovens. Water wash particulate controls on the primer, basecoat, and clearcoat spray booths. Dry filter particulate control systems in the final repair booths.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	39.0 ^{A,B} tpy	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY during the initial low production period as defined in SC III.1	SC VI.1	R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2902(2)
2. VOC	330.3 ^{A,C} tpy	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2902(2)
3. VOC	3.0 ^{A,C} pounds per job	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), R 336.1702(a) , R 336.2902(2)
4. PM	21.5 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d)
5. PM10	21.5 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), R 336.2802(d), 40 CFR 52.21(c) & (d)
6. PM2.5	21.5 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), R 336.2802(d), 40 CFR 52.21(c) & (d)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
7. NOx	44.6 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.2, SC VI.1	R 336.1205(1)(a) & (b), R 336.2802(d), R 336.2902(2), 40 CFR 52.21(c) &(d)
8. CO	52.1 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
9. SO2	0.4 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
10. GHGs as CO2e	74,054 tpy ^A	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b)

^AThis limit includes emissions from all sources at the Detroit-Hamtramck Assembly Plant, including combustion sources, with the exception of the diesel-fired emergency engine EUEMENG and the following equipment existing prior to the reconstruction of the automotive assembly line: one powerhouse boiler, two powerhouse temporary boilers, the wastewater treatment plant, natural gas-fired dock heaters with a capacity of 7.2 MMBTU/hr, one natural gas-fired emergency generator, five diesel-fired emergency generators, and two diesel-fired pump engines. This limit also excludes emissions from equipment to be installed as part of the Steam Elimination (EPC) Project.

^BBeginning on the startup of production, and continuing for the first 12 calendar months, this limit applies to the cumulative total VOC emissions. Thereafter, the limit shall become a 12-month rolling limit.

^CThis limit shall become applicable upon the end of the low production period as defined in SC III.1.

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Natural Gas	1,240 Million standard cubic feet per year ^D	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205, R 336.1225, R 336.2802(d), R 336.2902(2), 40 CFR 52.21(c) & (d)

^D This limit includes natural gas usage at all natural gas combustion sources at the Detroit-Hamtramck Assembly Plant, with the exception of the following equipment that was existing prior to the reconstruction of the automotive assembly line: one powerhouse boiler, two powerhouse temporary boilers, the wastewater treatment plant, natural gas-fired dock heaters with a capacity of 7.2 MMBTU/hr, and one natural gas-fired emergency generator. This limit also excludes natural gas usage in equipment to be installed as part of the EPC project.

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not produce more than 10,000 vehicles (or "jobs") per 12-month rolling time period as determined at the end of each calendar month during the initial low production period. The initial low production period for the Detroit-Hamtramck Assembly Plant shall last until the earlier of:
 - a) 36 months after the beginning of saleable vehicle production, or
 - b) Production of saleable vehicles exceeds 10,000 vehicles per 12-month rolling time period.

After the initial low production period ends, the emission and operational limits in SC I.1 and III.1 shall no longer be applicable and the emission limits in SC I.2 and SC I.3 shall become applicable. (R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2902(2))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each spray coating booth with a waterwash particulate control system. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. Within 180 days of the end of the initial low production period as specified in SC III.1, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee maintains a yearly demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from each RTO and EUFNLRPR2020 stack as identified in a complete test plan by testing at owner's expense, in accordance with Department requirements. Alternatively for EUFNLRPR2020, test results of similar sources can be used upon approval of the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A
PM10 / PM2.5	40 CFR Part 51, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. 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 336.1301, R 336.2001, R 336.2003, R 336.2004, R 336.2802, 40 CFR 52.21(c) & (d))

2. Within 180 days of the end of the initial low production period as specified in SC III.1, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee maintains a yearly demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify NOx emission rates from the RTO portions of FGAUTOASSEMBLY, as agreed to by the AQD District Supervisor, by testing at owner's expense, in accordance with Department requirements. One EU (or portion of an EU) may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Alternatively, the permittee may submit vendor guarantees for NOx emission rates from representative emission units in a manner acceptable to the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. 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 336.1205, R 336.2001, R 336.2003, R 336.2004, R 336.2802, R 336.2902, 40 CFR 52.21(c) & (d))
3. Within 365 days after the beginning of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee maintains a yearly demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify the overall transfer efficiency for each booth in EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, and EUTOPCOAT6, by testing at owner's expense, in accordance with Department

requirements and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. One basecoat booth and one clearcoat booth may be tested if the permittee provides a demonstration to the AQD that the tested booth(s) is identical to and/or the transfer efficiencies from the tested booth(s) are representative of the other booth(s). 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 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2902)**

4. The permittee shall verify the capture efficiency through panel testing for each spray booth, flash-off area, observation zone, and oven portion of FGAUTOASSEMBLY to the respective VOC control device(s), by testing at owner's expense, in accordance with Department requirements and the U. S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. The testing shall be performed according to the following schedule:
 - a) Within 365 days after the beginning of saleable vehicle production.
 - b) Within 3 years after the beginning of saleable vehicle production.
 - c) Within 5 years after the beginning of saleable vehicle production.
 - d) At least once every five years from the last testing date thereafter.

Per the U. S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, the permittee must maintain a yearly demonstration that the most recent acceptable test remains valid and representative. This capture efficiency testing includes materials (sealers, et al) applied after EUELPO and prior to EUPRIMER that are cured in primer curing oven. One spray booth, flash-off area, observation zone, and oven portion may be tested if the permittee provides a demonstration to the AQD that the tested spray booth, flash-off area, observation zone, and oven are representative. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. 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 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2902)**

5. The permittee shall verify the destruction efficiency of each RTO in FGAUTOASSEMBLY by testing at the owner's expense, in accordance with Department requirements and according to the following schedule:
 - a) Within 365 days after the beginning of saleable vehicle production.
 - b) Within 180 days of the end of the initial low production period as specified in SC III.1.
 - c) Within 2 years of the testing required in SC V.5(b).
 - d) Within 2.5 years of the testing required in SC V.5(c).
 - e) At least once every five years thereafter.

Alternatively, the permittee may perform testing on representative RTO(s) upon receiving written approval from the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. 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 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2902)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations", EPA-453/R-08-002, or as amended. (The Auto Protocol)
 - a) For each material used in FGAUTOASSEMBLY:
 - i. Material identification.
 - ii. Material VOC content.
 - iii. Material usage.
 - b) The amount of natural gas burned during each calendar month and 12-month rolling time period, in cubic feet.
 - c) Number of jobs each calendar month, where a job is defined as a painted vehicle leaving the assembly line.
 - d) Calculations showing the FGAUTOASSEMBLY monthly emission rates, in tons per month, and annual mass VOC emission rates, as a cumulative emission rate for the first 12 months of operation and in tons per 12-month rolling time period thereafter, as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used. Calculations must also include a sample calculation based on the production of a single job and that specifies all measured or assumed process parameters (e.g., transfer, capture and control efficiencies, booth splits, etc.) and VOC emissions due to natural gas combustion. Prior to the initial testing, for each controlled section, the design combined capture and control efficiency may be used. Thereafter, values no greater than the most recently tested values may be used.
 - e) After the end of the initial low production period as specified in SC III.1, calculations showing the VOC emission rate (lb/job) on a 12-month rolling basis, as determined at the end of each calendar month for the equipment covered by FGAUTOASSEMBLY.
 - f) Calculations showing the PM, PM10, PM2.5, SO₂, NO_x, and CO mass emission rates in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FGAUTOASSEMBLY. These calculations shall be done according to a method acceptable to the AQD District Supervisor and shall use AP-42 (or other agreed upon emission factors) or emission factors developed from the testing required in SC V.2 or SC V.3.
 - g) Calculations showing the GHGs as CO₂e mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FGAUTOASSEMBLY.
 - h) Hours of operation for each calendar month and 12-month rolling time period.

All records/calculations shall be kept on file and made available to the Department upon request. **(R 336.1225, R 336.1301, R 336.1331, R 336.1702, R 336.2908(3), 40 CFR 52.21(c) & (d))**

2. The permittee shall monitor the condition of each waterwash particulate control system through weekly visual inspections (except during weeks with no production) of each primer, basecoat, and clearcoat spray booth. The permittee shall keep records of visual inspections of each waterwash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**
3. The permittee shall keep records of operation for EUDELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, RTO 110, RTO 120, RTO 130, RTO 210, and RTO 220 during vehicle painting to determine proper operation of the appropriate RTOs as specified in Appendix 1-9. All records shall be kept in a manner acceptable to the AQD District Supervisor, kept on file, and made available to the Department upon request. **(R 336.1702, R 336.1910, R 336.2908(3))**

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. For each emission unit (EU) and flexible group (FG) included in this permit, the permittee shall submit to the AQD District Supervisor, in an acceptable format, within 30 days following the end of the quarter in which the data was collected, the actual VOC, PM10, PM2.5, NOx, CO, SO₂, and GHGs as CO_{2e} emission rates for each limit included in the permit. **(R 336.1205, R 336.1702, R 336.2802, R 336.2902, 40 CFR 52.21(c) & (d))**
5. The permittee shall notify the AQD District Supervisor, in writing, of projects authorized by SC IX.3 and 4 at least 30 days prior to initialization of the activity. The notification shall include, at a minimum, a description of the type of project and any changes in testing, monitoring, recordkeeping or other compliance evaluation activities. **(R 336.1201)**
6. Within 30 days of the start of producing saleable vehicles under this permit to install, the permittee shall provide the AQD District Supervisor written notification of the date that the first saleable vehicle was produced. **(R 336.1201)**

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:

NA

IX. OTHER REQUIREMENT(S)

1. This permit covers automotive body, paint, and assembly operations for the Detroit-Hamtramck Assembly Plant. Changes to these operations or replacement with a different process type are subject to the requirements of R 336.1201, except as disallowed by R 336.1278 or as allowed by R 336.1279 through R 336.1291 or SC IX.3 or 4. **(R 336.1201)**
2. The Department has determined that compliance with the limits listed in SC I.1 through SC I.10 provides a level of control that is at least equivalent to and not less stringent than the standards in 40 CFR 60.392, *et seq.* and R 336.1610. Accordingly, compliance with the limitations in this permit meets all applicable emission limit requirements of 40 CFR Part 60, Subpart MM and R 336.1610. **(R 336.1610, 40 CFR 60 Subpart MM)**
3. This permit authorizes any activities including projects involving physical changes or changes in the method of operation to existing emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1 through SC I.10. As a state only enforceable requirement¹, the changes to the emission unit(s) shall not result in a meaningful change in the nature or quantity of toxic air contaminants emitted from the stationary source. The permittee shall keep on file a demonstration, consistent with AQD Policy and Procedure number AQD-025, or according to the method outlined in SC IX.4. Such activities do not require the facility to obtain any federal or state air permits. **(R 336.1201)**
4. This permit authorizes projects involving the installation of new emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1 through SC I.10 under the following conditions: **(R 336.1201)**

- a) As a state-only enforceable requirement, the new emission unit will not result in an exceedance of any air toxics standards found in Rule 336.1226 or Rule 336.1227. The permittee shall keep on file, a copy of all demonstrations that the air toxics impact from the new emission unit(s) will comply with the levels specified in Rule 336.1226 or Rule 336.1227. The permittee may devise its own method to perform this demonstration subject to approval by the department.¹
 - b) The new emissions unit will not be a newly constructed or reconstructed major source of hazardous air pollutants as defined in and subject to 40 C.F.R. §63.2 and §63.5(b)(3), National Emission Standard for Hazardous Air Pollutants; and,
 - c) The installation of the new emissions unit will not cause the violation of any applicable air requirement.
 - d) A demonstration that the new installation meets these criteria shall be kept on site for the life of the new emission unit and made available to the department upon request. The permittee must notify the department of the installation of the new emission unit. This notification must contain the information specified in R 336.1215(3)(c)(i) through (v). Construction of the new emission unit may commence upon submittal of the notice.
5. The emission limits and performance levels specified in SC I.1 through SC I.10 may be reviewed and/or adjusted when newly applicable federal requirements or any other requirement that is enforceable as a practical matter and that the Department, under its State Implementation Plan, may impose on the facility become applicable during the term of the permit that would lower allowable emissions. Adjustments to SC I.1 through SC I.10 will be made through a permit revision as of the effective date of the new applicable requirements and will reflect the impact the new applicable requirements will have on the affected emission units. Initial compliance with the adjusted emission limits and performance levels will be demonstrated over the initial compliance period granted by the newly applicable federal requirement. **(R 336.1225, R 336.1702, R 336.2802, R 336.2902, 40 CFR 52.21(c) & (d))**
 6. The permittee may, at any time, request that the Department terminate the flexible emission limit provisions of this permit and issue a traditional permit. In the event of such termination, the requirements of this permit shall remain in effect until a new permit is issued. At that time, the permit conditions for any existing emission unit that has not been modified and to which new requirements have not become applicable will revert to those found in the previous permits. For any new or modified emission unit, or any emission unit for which new requirements have become applicable the permit conditions will reflect requirements contemporaneous with the date of installation, modification, or new requirement applicability. **(R 336.1225, R 336.1702, R 336.2802, R 336.2902, 40 CFR 52.21(c) & (d))**
 7. The permittee shall send written notification to the AQD District Supervisor within 30 days of the end of the initial low production period as specified in SC III.1. **(R 336.1702)**
 8. Upon request of the AQD District Supervisor, the permittee shall submit, implement, maintain, and update a nuisance minimization plan (NMP) for odors. The permittee shall submit the NMP, and any amendments to the NMP, to the AQD District Supervisor for review and approval.¹ **(R 336.1901)**

Footnotes:

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

FGCONTROLS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Control equipment associated with the reconstructed automotive manufacturing process at the Detroit-Hamtramck Assembly Plant.

Two banks of RTOs used for control of VOC emissions from the ELPO tank, primer spray booth, all basecoat and clearcoat spray booths, all heated flash-off areas, all observation zones, and all curing ovens. Waterwash on all paint spray booths and dry filter particulate control on all final repair booths.

Emission Unit: EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUMISCSOLVENTS, EUSEALERS, EUFNLRPR2020

POLLUTION CONTROL EQUIPMENT

One bank of two RTOs (RTO 210 and RTO 220) used for control of VOC emissions from the ELPO tank, the ELPO oven, all basecoat heated flash-off areas, and all curing ovens. One bank of three RTOs used for control of the primer spray booth, all basecoat spray booths, all clearcoat spray booths, and all topcoat observation zones. The portion of solventborne purge used inside the primer and clearcoat spray booths during the vehicle painting operation will be captured and recovered in a purge solvent collection system. The portion of solventborne purge used inside the booths during the vehicle painting operation that is not captured in the purge solvent collection system is controlled by the bank of three RTOs. The waterborne purge used in the basecoat spraybooth during the vehicle painting operation is controlled by the bank of three RTOs (RTO 110, RTO 120, and RTO 130). Waterwash particulate control systems on primer, basecoat, and clearcoat spray booths. Dry filter particulate control systems on all final repair booths.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FGCONTROLS unless a malfunction abatement plan (MAP) has been submitted within 90 days following the beginning of saleable vehicle production and is implemented and maintained as described in Rule 911(2), for the RTO add on control devices. The MAP shall be submitted to the AQD District Supervisor for review and approval. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1205, R 336.1225, R 336.1702, R 336.1910, R 336.1911, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain and operate in a satisfactory manner, combustion chamber temperature monitoring devices for the RTOs in FGCONTROLS to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. (R 336.1702, R 336.1910)
2. The permittee shall maintain records of maintenance and repair activities for FGCONTROLS. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. (R 336.1910)
3. For the RTOs, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. (R 336.1702, R 336.1910)
4. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the RTO control device used to demonstrate compliance with the applicable VOC emission limits: (R 336.1910, R 336.1911)
 - a) Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
 - b) Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.
 - c) Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.

The requirement to address these items is also satisfied if a destruction efficiency test has been performed on the control device within the prior 18-month period. All records shall be kept on file and made available to the Department upon request.

VII. REPORTING

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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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))**

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:

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGAUTOMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

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

Emission Unit: EUPRETREAT, EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUGLASSBOND, EUMISCSOLVENTS, EUSEALERS, EUFNLRPR2020

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.30 lb per GACS	Calendar Month	New/Reconstructed —FGMACT with EUELPO	SC III.1, SC V.1, SC VI.3	40 CFR 63.3090(a)
2. Organic HAP*	0.5 lb per GACS	Calendar Month	New/Reconstructed —FGMACT	SC III.1, SC V.1, SC VI.3	40 CFR 63.3091(b)
3. Organic HAP	0.01 lb per lb of coating	Calendar Month	New/Reconstructed —SEALERS & ADHESIVES	SC III.1, SC V.1, SC VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 lb per lb of coating	Calendar Month	New/Reconstructed —Deadener Materials	SC III.1, SC V.1, SC VI.3	40 CFR 63.3090(d) or 63.3091(d)

- **FGMACT** includes Primer, Topcoat, Final Repair, Glass Bonding Primer, and Glass Bonding Adhesive operations plus all coatings and thinners, except for deadener materials and adhesive and sealers not part of glass bonding systems.
- **FGMACT WITH EUELPO** also includes all Electrocoat operations in addition to all of the operations in FGMACT.
- **SEALERS & ADHESIVES** include only adhesives and sealers that are not part of glass bonding systems.

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

5. The permittee may choose to comply with either SC I.1 or 2. SC I.2 may be chosen only if EUELPO meets either of the following requirements. **(40 CFR 63.3092, 40 CFR Part 63, Subpart III, Table 5)**
- Each individual material added to EUELPO contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any organic HAP in Table 5 of 40 CFR Part 63 Subpart III.
 - The emissions from all EUELPO bake ovens are captured and ducted to the oven thermal oxidizer which achieves a minimum destruction efficiency of at least 95 percent (by weight).

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

The permittee may choose to comply with an alternative to the work practice standard, after receiving prior approval from the USEPA in accordance with 40 CFR 63.6(g). **(40 CFR 63.3100(c), 40 CFR 63.4493(b) and (c))**

2. The work practice plan shall not become part of the facility's Renewable Operating Permit (ROP). Revisions to the work practice plan likewise do not represent revisions to the facility's ROP. Copies of the current work practice plan and any earlier plan developed within the past 5 years are required to be made available for inspection and copying by the AQD upon request. **(40 CFR 63.3094)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee shall perform the compliance demonstrations in accordance with 40 CFR 63.3150-3152, 40 CFR 63.3160-3161, 40 CFR 63.3170-3171, and 40 CFR 63.3173. **(40 CFR Part 63, Subpart III)**
2. The permittee may rely upon the results of transfer efficiency tests that have been previously conducted upon written approval from the AQD District Supervisor. Any such previous tests must meet the criteria identified in 40 CFR 63.3160(c)(1) through (3). **(40 CFR 63.3160)**
3. The permittee shall determine the mass fraction of each organic HAP for each material used according to the procedures established under 40 CFR 63.3151(a)(1) through (5). The permittee may use USEPA Method ALT-017 as an alternative for any material used, after demonstrating that its use as an alternative test methodology for that material, has been approved by the USEPA pursuant to the requirements of 40 CFR 63.3151(a)(3) and 40 CFR 63.7. **(40 CFR 63.7, 40 CFR 63.3151)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, and 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month. **(40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))**
2. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131. **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**
3. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
 - a) A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart III and the documentation supporting each notification and report. **(40 CFR 63.3130(a))**
 - b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating. **(40 CFR 63.3130(b))**
 - c) For each coating or thinner used in FGMACT, or FGMACT with EUDELPO, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. **(40 CFR 63.3130(c))**
 - d) For each material used in EUSEALERS, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**
 - e) Calculations of the organic HAP emission rate for FGMACT, or FGMACT with EUDELPO, in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition 1.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat systems. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**
 - f) Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EUSEALERS. **(40 CFR 63.3130(c), 40 CFR 63.3152)**
 - g) The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) - (f))**
 - h) Any additional records pertaining to deviations; transfer efficiency determinations; and work practice plans; pursuant to 40 CFR 63.3130(g), (m), and (n). **(40 CFR 63.3130(g), (m), and (n))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semi-annual 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. **(40 CFR 63.3120(a)(1), R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.3120(a). The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever comes first. These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30. **(40 CFR 63.3120(a))**
5. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110. **(40 CFR 63, Subparts A and IIII)**

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:

NA

IX. OTHER REQUIREMENT(S)

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

**FGBOILERMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Requirements for six new boiler(s) and process heater(s) with a heat input capacity of <10 MMBTU/hr for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). These boilers or process heaters are designed to burn natural gas.

Emission Units:

Greater than 5 MMBTU/hr and less than 10 MMBTU/hr that burns gaseous or light liquid fuels or any unit that is less than 10 MMBTU/hr and burns any heavy liquid or solid fuels	EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6 EUEPCPH1, EUEPCPH2, EUEPCPH3, EUEPCPH4, EUEPCPH5, EUEPCPH6, EUEPCPH7, EUEPCPH8
--	--

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must, for boilers or process heaters installed after June 4, 2010, with a heat input capacity of greater than 5 MMBTU/hr and less than 10 MMBTU/hr, complete an initial tune-up as specified in SC III.3 by no later than 25 months after startup. **(40 CFR 63.7510(g))**
2. The permittee must, for boilers or process heaters with a heat input capacity of greater than 5 MMBTU/hr and less than 10 MMBTU/hr, conduct a biennial tune-up of the boiler or process heater according to 40 CFR 63.7540(a)(11) no more than 25 months after the previous tune-up. **(40 CFR 63.7500(e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(11), 40 CFR Part 63, Subpart DDDDD, Table 3.2)**
3. The permittee must conduct a tune-up of each boiler or process heater as specified in the following: **(40 CFR 63.7540(a)(11))**
 - a) As applicable, inspect the burner and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune-up or may delay the burner inspection until the next scheduled unit shutdown. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
 - b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

- c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The permittee may delay the inspection until the next scheduled unit shutdown. **(40 CFR 63.7540(a)(10)(iii))**
 - d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
 - e) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**
4. If the unit is not operated on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
 5. At all times, the permittee must operate and maintain each boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3)).**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The heat input capacity of each hot water generator in FGBOILERMACT shall not be equal to or greater than 10 MMBtu per hour. **(40 CFR Part 63, Subpart DDDDD)**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep a copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or 2 year compliance report or one-time energy assessment, as applicable, that the permittee submitted. **(40 CFR 63.7555(a)(1))**
2. The permittee must keep the records in a form suitable and readily available for expeditious review. **(40 CFR 63.7560(a))**
3. The permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
4. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(c))**

VII. REPORTING

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

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must submit boiler or process heater tune-up compliance reports to the appropriate AQD District Office and must be postmarked or submitted by March 15th of the year following the applicable 2-year period starting from January 1 of the year following the previous tune-up to December 31 (of the latest tune-up year). Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to EPA Region 5. **(40 CFR 63.7550(b), 40 CFR 63.7550(h)(3))**
5. The permittee must include the following information in the compliance report. **(40 CFR 63.7550(c)(1))**
 - a) Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
 - b) Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - c) Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - d) Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done biennially and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
 - e) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

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:

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 DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(40 CFR Part 63, Subparts A and DDDDD)**

Footnotes:

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

FGNGEQUIP FLEXIBLE GROUP CONDITIONS
--

DESCRIPTION

All new natural gas-fired equipment installed at the Detroit-Hamtramck Assembly Plant as part of the reconstructed automotive manufacturing process, including dock heaters, hot water generators, cure ovens, RTOs, and Air Handling Units/Air Supply Houses.

Emission Unit: EUELPO, EUPRIMER, EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUNGHEAT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGEQUIP (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any equipment in FGNEQUIP, with the exception of the additional dock heaters, unless that equipment has a NOx emission factor of less than or equal to 72 pounds per one million cubic feet of combusted natural gas. (R 336.1205, R 336.1225, R 336.2802(d), R 336.2902(2), 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep records of vendor guarantees for NOx emission rates for all natural gas combustion equipment in FGNGEQUIP, with the exception of door/dock heaters. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1224, R 336.1225, R 1702(a), 40 CFR 52.21(c) & (d))

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

2. The permittee shall maintain a current listing of the maximum capacity of each piece of equipment in FGNGEQUIP. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**

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))**

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:

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGMPAINT1 (Paint Dock Heater 1)*	6	28	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVGMPAINT2 (Paint Dock Heater 2)*	6	28	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVGMPNTMAX (Paint Mix Room Dock Heater)**	6	20	R 336.1225, 40 CFR 52.21(c) & (d)
4.-8. SVA100DH1 – SVA100DH5 (A100 Dock Heater 1-5)**	6	28	R 336.1225, 40 CFR 52.21(c) & (d)
9.-16. SVNLOC1 - SVNLOC8 (N LOC Dock Heater 1-8)**	6	26	R 336.1225, 40 CFR 52.21(c) & (d)
17.-30. SVASRS1 – SVASRS14 (ASRS Dock Heater 1-14)**	6	26	R 336.1225, 40 CFR 52.21(c) & (d)
31.-49. SVBODYNW1 – SVBODYNW19 (Body NW Dock Heater 1-19)**	6	28	R 336.1225, 40 CFR 52.21(c) & (d)
50.-56. SVBODYW1 – SVBODYW7 (Body W Dock Heater 1-7)**	6	28	R 336.1225, 40 CFR 52.21(c) & (d)
57.-65. SVLMDOCK1 – SVLMDOCK9 (LM Dock Heater 1-7)**	6	27	R 336.1225, 40 CFR 52.21(c) & (d)
66.-68. SVSDOCK1-SVSDOCK3 (S Dock Heater 1-3)**	6	25	R 336.1225, 40 CFR 52.21(c) & (d)
69. SVR57A (PTED HWG Exhaust)	16	40	R 336.1225, 40 CFR 52.21(c) & (d)
70. SVR57B (PTED HWG Exhaust)	16	40	R 336.1225, 40 CFR 52.21(c) & (d)
71. SVR57C (PTED HWG Exhaust)	16	40	R 336.1225, 40 CFR 52.21(c) & (d)
72. SVR58A (Penthouse HWG Exhaust)	16	61	R 336.1225, 40 CFR 52.21(c) & (d)
73. SVR58B (Penthouse HWG Exhaust)	16	61	R 336.1225, 40 CFR 52.21(c) & (d)
74. SVR58C (Penthouse HWG Exhaust)	16	61	R 336.1225, 40 CFR 52.21(c) & (d)

* These stacks are obstructed

** These stacks are obstructed and may exhaust horizontally

IX. OTHER REQUIREMENT(S)

1. Within 30 days of startup, the permittee shall label or provide a map of all natural gas stacks with its respective name in a manner acceptable to the AQD District Supervisor. **(R 336.1205)**

Footnotes:

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

FGTOPCOAT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

An automatic topcoat spray application process with a maximum of six modular topcoat processes, each consisting of a waterborne basecoat coating booth, a basecoat heated flash-off area, a solventborne clearcoat coating booth, a clearcoat observation zone, and a natural gas-fired curing oven

Emission Units: EUTOPCOAT1, EUTOPCOAT2, EUTOPCOAT3, EUTOPCOAT4, EUTOPCOAT5, EUTOPCOAT6

POLLUTION CONTROL EQUIPMENT

Spray booth overspray (basecoat and clearcoat) is controlled by a waterwash particulate control system. Exhaust from all basecoat and clearcoat spray booths and all observation zones is controlled by a bank of three RTOs (RTO 110, RTO 120, and RTO 130) for control of VOCs. Exhaust from all basecoat heated flash-off areas and all topcoat curing ovens is exhausted to a bank of two RTOs (RTO 210 and RTO 220) for control of VOCs. The spot reprocess area is exhausted through downdraft ventilation through a dry filter particulate control system and vented back into the in-plant environment.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any coating booth, observation zone, heated flash-off area, or curing oven portion of FGTOPCOAT unless the appropriate RTO portions of FGCONTROLS as specified in Appendix 1-9 are installed, maintained and operated in a satisfactory manner. Satisfactory operation of each respective RTO includes: **(R 336.1225, R 336.1702, R 336.1910)**
 - a) A minimum retention time of 0.5 seconds.
 - b) Maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed.
 - c) After the acceptable performance test has been performed, maintaining the RTO combustion chamber temperature, based upon a three-hour average, at the temperature during the most recent control device performance test which demonstrated compliance with either:
 - i. During the initial low production period as specified in FGAUTOASSEMBLY SC III.1, a VOC outlet concentration of less than or equal to 7 ppm as propane, or
 - ii. After the initial low production period ends as specified in FGAUTOASSEMBLY SC III.1, a minimum 95 percent destruction efficiency.
2. The permittee shall not operate any spray booth portions of FGTOPCOAT unless the associated waterwash system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the waterwash

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

system includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. (R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUTOPCOAT, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

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))

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. SVR17 (Mod #1 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVR20 (Mod #1 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVR22 (Mod #2 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVR25 (Mod #2 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVR27 (Mod #3 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVR30 (Mod #3 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
7. SVR32 (Mod #4 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVR35 (Mod #4 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVR37 (Mod #5 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVR40 (Mod #5 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVR42 (Mod #6 Flue Exhaust)	12	75	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVR45 (Mod #6 Oven Cooler)	46	46	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVR55 (Combined stack of three-bank RTOs serving all booths and all observation zones)	108	126	R 336.1225, 40 CFR 52.21(c) & (d)
14. SVR56 (Combined stack of two-bank RTOs serving ELPO tank, all ovens and all heated flash)	90	126	R 336.1225, 40 CFR 52.21(c) & (d)

15. The exhaust gases from the spot reprocess areas of FGTOPCOAT shall not be directly discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to FGTOPCOAT, except as provided in FGAUTOASSEMBLY SC IX.2. (40 CFR 60.390)

Footnotes:

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

**FGEMENGINES
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three 346 kilowatts (kW) diesel-fueled emergency engines with model years of 2011 or later, and displacements of <30 liters/cylinder.

Emission Units: EUEMENG7, EUEMENG8, EUEMENG9

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC ^A + NO _x	3.0 g/hp-hr ^B	Hourly	Each EU in FGEMENGINES	SC VI.2	40 CFR 60.4205(b), 60.4202(a)(2), Table 1 of Appendix I to 40 CFR 1039
2. CO	2.6 g/hp-hr ^B	Hourly	Each EU in FGEMENGINES	SC VI.2	40 CFR 60.4205(b), 60.4202(a)(2), Table 1 of Appendix I to 40 CFR 1039
3. PM	0.15 g/hp-hr ^B	Hourly	Each EU in FGEMENGINES	SC VI.2	40 CFR 60.4205(b), 60.4202(a)(2), Table 1 of Appendix I to 40 CFR 1039

^ANMHC = non-methane hydrocarbon

^BThese emission limits are for certified engines; if testing becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c).

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel, in FGEMENGINES with the 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. (R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 1090.305)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any EU in FGEMENGINES for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. (R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 52.21 (c) & (d))

2. The permittee may operate each EU in FGEMENGINES 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 60.4211(f)(2))**
3. The permittee may operate any EU in FGEMENGINES up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as provided in §60.4211(f)(2). Except as provided in §60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f)(3))**
4. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart III, for the same model year, the permittee shall meet the following requirements for each respective EU in FGEMENGINES:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Change only those emission related settings that are permitted by the manufacturer.
 - c) Meet the requirements as specified in 40 CFR 1068, as they apply to each respective EU in FGEMENGINES.

If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4211(a), R 336.1702)**

5. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each respective EU in FGEMENGINES and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(2), R 336.1702)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGEMENGINES with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 60.4209(a))**
2. The maximum nameplate engine power of each EU in FGEMENGINES shall not exceed 464 HP. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a))**

V. TESTING/SAMPLING

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

1. If any EU in FGEMENGINES is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.
 - b) If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212.

No less than 30 days prior to testing, 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. **(40 CFR 60.4211(g)(2), 40 CFR 60.4212)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep all required records and calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a)&(b), R 336.1225, 40 CFR 52.21 (c) & (d), 40 CFR Part 60 Subpart IIII)**

2. The permittee shall keep, in a satisfactory manner, the following records for each EU in FGEMENGINES:
 - a) For a certified engine: The permittee shall keep records of the manufacturer certification documentation.
 - b) For an uncertified engine: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGEMENGINES:
 - a) For a certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.4.
 - b) For an uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.5, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211)**

4. The permittee shall keep, in a satisfactory manner, test reports for each EU in FGEMENGINES, as required by SC V.1, on file at the facility. The permittee shall make the records available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.2001, R 336.2003, R 336.2004)**
5. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each EU in FGEMENGINES, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each EU in FGEMENGINES, including what classified the operation as emergency. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), 40 CFR 60.4211, 40 CFR 60.4214)**

6. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data for diesel fuel oil used in each EU in FGEMENGINES, demonstrating that the fuel meets the requirement of 40 CFR 1090.305. 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 make the records available to the Department upon request. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4207(b), 40 CFR 1090.305)**

VII. REPORTING

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

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

5. 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))**
6. 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))**
7. The permittee shall submit a notification specifying whether each EU in FGEMENGINES will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(R 336.1201(3))**

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. SVGM_E7EG	6	11	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVGM_E8EG	6	11	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVGM_E9EG	6	11	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart A and Subpart IIII, as they apply to each EU in FGEMENGINES. **(40 CFR Part 60 Subparts A & IIII, 40 CFR 63.6590(c)(6))**
2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to each EU in FGEMENGINES. **(40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6595)**

Footnotes:

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

FG-EMERGENCYRICE

FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE). Title 40 of the Code of Federal Regulations (CFR), Part 63, Subpart ZZZZ (40 CFR 63.6580-6675). The engines are regulated as existing compression ignition (CI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGINE3, EU-ENGINE4, EU-ADMINFIREPUMP), greater than 500 brake horse power (HP) (EU-ENGINE5), and existing spark ignition (SI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGDATACTR) located at a Major Source of HAP emissions.

Emission Units: EU-ENGINE3, EU-ENGINE4, EU-ENGINE5, EU-ADMINFIREPUMP, EU-ENGDATACTR

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
NA	NA	NA	NA	NA	NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall limit operation of each stationary emergency RICE with a site rating of less than or equal to 500 brake HP or greater than 500 brake HP as follows:
 - a. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 63.6640(f))**

- b. Emergency stationary RICE may be operated for the purposes of maintenance checks and readiness testing up to 100 hours per year. The permittee 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 permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. **(40 CFR 63.6640(f))**
 - c. Emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those hours are to be counted towards the 100 hours per year for maintenance and readiness testing. These 50 hours per year for non-emergency situations cannot be used for peak-shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Up to 15 hours per year can be used as part of a demand response program. **(40 CFR 63.6640(f))**
2. The permittee shall operate and maintain existing emergency stationary RICE with a site rate of less than or equal to 500 brake HP according to the manufacturer's emission-related operation and maintenance instructions or a plan developed by the facility that provides 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) and 40 CFR 63.6640(a) Table 6(9)(a))**
3. For existing emergency CI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall inspect the air cleaner every 1000 hours of operation or annually, whichever comes first. **(40 CFR 63.6603(a) and Table 2d (4)(b))**
4. For existing emergency SI RICE located, the permittee shall inspect the spark plugs every 1000 hours of operation or annually, whichever comes first. **(40 CFR 63.6603(a) and Table 2d (5)(b))**
5. For existing emergency CI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first. In lieu of changing the oil and filter, the permittee may implement an oil analysis program to have the oil analyzed at the same frequency specified for changing the oil as described in 40 CFR 63.6625(i). **(40 CFR 63.6603(a) and Table 2d (4)(a) & (5)(a))**
6. If implementing an oil analysis program and if the analytical results of the oil analysis program for emergency stationary CI engines with a site rate of less than or equal to 500 brake HP indicate any of the following limits are exceeded, the permittee shall 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 shall change the oil within 2 days or before commencing operation, whichever is later. **(40 CFR 63.6625(i))**
 - a. Total Base Number is less than 30 percent of the Total Base Number of the oil when new.
 - b. Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
 - c. Percent water content (by volume) is greater than 0.5.
7. If implementing an oil analysis program and if the analytical results of the oil analysis program for emergency stationary SI engines indicate any of the following limits are exceeded, the permittee shall 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 shall change the oil within 2 days or before commencing operation, whichever is later. **(40 CFR 63.6625(j))**
 - a. Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new.
 - b. Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
 - c. Percent water content (by volume) is greater than 0.5.
8. For existing emergency CI and SI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. **(40 CFR 63.6603(a) and Table 2d (4)(c) & (5)(c))**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

9. If an existing emergency CI and SI RICE with a site rate of less than or equal to 500 brake HP is operating during an emergency and it is not possible to shutdown to perform the management practice requirements (change oil and filter, inspect air cleaner and spark plugs, and inspect hoses and belts) on the required schedule, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. **(40 CFR 63.6603(a) and Table 2d footnote 2)**
10. 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 safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply. **(40 CFR 63.6625(h) & 40 CFR 63.6640(a))**
11. Beginning January 1, 2015, an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), the permittee must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. **(40 CFR 63.6604(b))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. For existing emergency CI and SI RICE with a site rating of 500 brake HP or less, the permittee shall install a nonresettable hour meter. **(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), 40 CFR 63.9360)**

1. If implementing an oil analysis program for emergency stationary CI engines with a site rate of less than or equal to 500 brake HP, the permittee shall at a minimum analyze the oil for the following three parameters: **(40 CFR 63.6625(i))**
 - a. Total Base Number
 - b. Viscosity
 - c. Percent water content.
2. If implementing an oil analysis program for emergency stationary SI engines, the permittee shall at a minimum analyze the oil for the following three parameters: **40 CFR 63.6625(j))**
 - a. Total Acid Number
 - b. Viscosity
 - c. Percent water content.

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii), 40 CFR 63.9360)**

1. The permittee shall maintain a copy of each notification and report submitted, including supporting documentation. **(40 CFR 63.6655(a)(1))**
2. The permittee shall maintain a record 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))**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

3. The permittee shall maintain a record 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))**
4. The permittee shall maintain records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE was operated and maintained according to the facility maintenance plan. **(40 CFR 63.6655(e)(2))**
5. For existing emergency stationary RICE that do not meet the emission standards applicable to nonemergency stationary RICE, permittee shall maintain records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The records must document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator 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))**
6. If implementing an oil analysis program, the permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. **(40 CFR 63.6625(i) and (j))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
3. 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))**
4. 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))**
5. The permittee shall report any failure to perform a management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. **(40 CFR 63 Table 2c footnote 1)**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the RICE MACT as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, by the initial compliance date. **(40 CFR 63.6595, 40 CFR, Part 63, Subparts A and ZZZZ)**

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

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).

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that the requirements identified in the table below are not applicable to the specified emission unit(s) and/or flexible group(s). This determination is incorporated into the permit shield provisions set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii). If the permittee makes a change that affects the basis of the non-applicability determination, the permit shield established as a result of that non-applicability decision is no longer valid for that emission unit or flexible group.

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 1-1: 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
gr	Grains	psig	Pounds per square inch gauge
HAP	Hazardous Air Pollutant	PeTE	Permanent Total Enclosure
Hg	Mercury	PTI	Permit to Install
hr	Hour	RACT	Reasonable Available Control Technology
HP	Horsepower	ROP	Renewable Operating Permit
H ₂ S	Hydrogen Sulfide	SC	Special Condition
HVLP	High Volume Low Pressure *	scf	Standard cubic feet
ID	Identification (Number)	sec	Seconds
IRSL	Initial Risk Screening Level	SCR	Selective Catalytic Reduction
ITSL	Initial Threshold Screening Level	SO ₂	Sulfur Dioxide
LAER	Lowest Achievable Emission Rate	SRN	State Registration Number
lb	Pound	TAC	Toxic Air Contaminant
m	Meter	Temp	Temperature
MACT	Maximum Achievable Control Technology	THC	Total Hydrocarbons
MAERS	Michigan Air Emissions Reporting System	tpy	Tons per year
MAP	Malfunction Abatement Plan	µg	Microgram
MDEQ	Michigan Department of Environmental Quality	VE	Visible Emissions
mg	Milligram	VOC	Volatile Organic Compounds
mm	Millimeter	yr	Year

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

General Motors
Hamtramck
source not found.

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Appendix 1-2. 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 1-3. 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 1-4. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate source-wide, emission unit and/or flexible group special conditions. Therefore, this appendix is not applicable.

Appendix 1-5. Testing Procedures

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

Appendix 1-6. Permits to Install

The following table lists any PTIs issued since the effective date of previously issued ROP No. MI-ROP-M4199-2010. This includes any PTI that were incorporated into the Source-wide PTI No MI-PTI-M4199-2009 through amendments or modifications and any PTI that remained off-permit until this ROP renewal.

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
209-19A	A reconstructed assembly plant to support new product launch. The reconstruction included a total demolition of the interior of the assembly plant, building expansions, and the install of new equipment that support vehicle assembly and battery assembly.	EUPRETREAT, EUELPO, EUPRIMER, EUMISCSOLVENTS, EUSEALERS, EUFLUIDFILL, EUFNLRPR2020, EUGLASSBOND, EUPHFPENG, FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT, FGNGEQUIP, FGTOPCOAT, FGEMENGINES

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

Appendix 1-8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

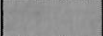

The permittee shall use the EGLE Report Certification form (EQP 5736) and EGLE Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative 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.

Appendix 1-9. RTO Operating Scenarios

RTO Operating Scenarios

 Indicates that the Process is Operating
 Indicates that the Process is Not Operating

Scenario	1	2	3	4	5	6	7
ELPO Tank	ELPO Tank	ELPO Tank	ELPO Tank	ELPO Tank	ELPO Tank	ELPO Tank	ELPO Tank
ELPO Oven 1	ELPO Oven 1	ELPO Oven 1	ELPO Oven 1	ELPO Oven 1	ELPO Oven 1	ELPO Oven 1	ELPO Oven 1
ELPO Oven 2	ELPO Oven 2	ELPO Oven 2	ELPO Oven 2	ELPO Oven 2	ELPO Oven 2	ELPO Oven 2	ELPO Oven 2
Prime Booth	Prime Booth	Prime Booth	Prime Booth	Prime Booth	Prime Booth	Prime Booth	Prime Booth
Prime Oven 1	Prime Oven 1	Prime Oven 1	Prime Oven 1	Prime Oven 1	Prime Oven 1	Prime Oven 1	Prime Oven 1
Prime Oven 2	Prime Oven 2	Prime Oven 2	Prime Oven 2	Prime Oven 2	Prime Oven 2	Prime Oven 2	Prime Oven 2
TC Mod 1	TC Mod 1	TC Mod 1	TC Mod 1	TC Mod 1	TC Mod 1	TC Mod 1	TC Mod 1
TC Mod 2	TC Mod 2	TC Mod 2	TC Mod 2	TC Mod 2	TC Mod 2	TC Mod 2	TC Mod 2
TC Mod 3	TC Mod 3	TC Mod 3	TC Mod 3	TC Mod 3	TC Mod 3	TC Mod 3	TC Mod 3
TC Mod 4	TC Mod 4	TC Mod 4	TC Mod 4	TC Mod 4	TC Mod 4	TC Mod 4	TC Mod 4
TC Mod 5	TC Mod 5	TC Mod 5	TC Mod 5	TC Mod 5	TC Mod 5	TC Mod 5	TC Mod 5
TC Mod 6	TC Mod 6	TC Mod 6	TC Mod 6	TC Mod 6	TC Mod 6	TC Mod 6	TC Mod 6
Booth RTOs (3)	RTO	Yes	Yes	Yes	Yes	Yes	Yes
	RTO	No	Yes	Yes	Yes	Yes	Yes
	RTO	No	No	No	No	No	Yes
Oven RTOs (2)	RTO	Yes	Yes	Yes	Yes	Yes	Yes
	RTO	No	No	No	Yes	Yes	Yes

Note:
When a process is "Operating" or "Not Operating", it is irrespective of the number designation.
For example, in Scenario 2 above, the following would be operational:

- ELPO tank
- One ELPO oven (either of the two)
- Prime booth
- One Primer oven (either of the two)
- Two Topcoat Mods (any two out of six)
- Two booth RTOs (any two out of three)

**General Motors
Hamtramck
source not found.**

ROP No: MI-ROP-M4199-
Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-

- One oven RTO (either of the two)

