Michigan Department of Environmental Quality
Air Quality Division

EFFECTIVE DATE: November 20, 2017

ISSUED TO

General Motors LLC Lansing Grand River Assembly Center

State Registration Number (SRN): A1641

LOCATED AT

920 Townsend, Lansing, Michigan 48933

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-A1641-2017

Expiration Date: November 20, 2022

Administratively Complete ROP Renewal Application Due Between
May 20, 2021 and May 20, 2022

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-A1641-2017

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(5) of Act 451. Pursuant to Michigan Air Pollution Control Rule 214a, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environmental Quality

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Brad Myott, Lansing District Supervisor

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AUTHORITY AND ENFORCEABILITY

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

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**

- Those conditions that are hereby incorporated in a state only enforceable Source-wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**

- Those conditions that are hereby incorporated in federally enforceable Source-wide PTI No. MI-PTI-A1641-2012b pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**

2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**

3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**

4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities **(R 336.1213(1)(d))**:
   a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   c. Inspect, at reasonable times, any of the following:
      i. Any stationary source.
      ii. Any emission unit.
      iii. Any equipment, including monitoring and air pollution control equipment.
      iv. Any work practices or operations regulated or required under the ROP.
   d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.

5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**

7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**

8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**

10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Except as provided in Subrules 2, 3, and 4 of Rule 301, states in part; "a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of Rule 301(1)(a) or (b) unless otherwise specified in this ROP." The grading of visible emissions shall be determined in accordance with Rule 303. **(R 336.1301(1) in pertinent part)**:
    a. A 6-minute average of 20 percent opacity, except for one 6-minute average per hour of not more than 27 percent opacity.
    b. A limit specified by an applicable federal new source performance standard.

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

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1). **(R 336.2001)**

14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**

15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(4))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate **(R 336.1213(3)(b))**:
    a. The date, location, time, and method of sampling or measurements.
    b. The dates the analyses of the samples were performed.
    c. The company or entity that performed the analyses of the samples.
    d. The analytical techniques or methods used.

e. The results of the analyses.
f. The related process operating conditions or parameters that existed at the time of sampling or measurement.

17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a responsible official which states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**

19. A responsible official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604. **(R 336.1213(4)(c))**

20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**

21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
    a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
    b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
    c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following **(R 336.1213(3)(c))**:
    a. Submitting a certification by a responsible official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
    b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a responsible official which states that, “based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete”. The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.

23. Semi-annually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**

24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**

25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a responsible official in a manner consistent with the CAA. **(R 336.1912)**

Permit Shield

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

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

27. Nothing in this ROP shall alter or affect any of the following:
    a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
    b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
    c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**
    d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**

28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
    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))**

Re-openings

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 reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F.

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

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR, Part 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR, Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).

39. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall comply with the requirements of 40 CFR, Part 68, no later than the latest of the following dates as provided in 40 CFR, Part 68.10(a):
    a. June 21, 1999,
    b. Three years after the date on which a regulated substance is first listed under 40 CFR, Part 68.130, or
    c. The date on which a regulated substance is first present above a threshold quantity in a process.

40. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR, Part 68.

41. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR, Part 68)**

Emission Trading

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

Permit To Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule. [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:

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

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

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
EU-Electrocoat	An electrocoat dip tank followed by an electrocoat curing oven followed by a dry filtered scuff booth. VOC emissions from both the tank and oven are controlled by a thermal oxidizer (No. 1). Note, VOC emissions from the guidecoat curing oven and the two topcoat curing ovens are also controlled by thermal oxidizer No. 1.	03/01/2001	FG-Facility FG-MACT
EU-Guidecoat	A guidecoat spray booth followed by a curing oven. The solvent borne guidecoat is applied automatically with electrostatic bell applicators or equivalent. The guidecoat booth is equipped with a wet eliminator system to control particulate emissions from paint overspray. VOC emissions from zone 1 of the automatic electrostatic bell section of the guidecoat booth are controlled by thermal oxidizer No. 2. VOC emissions from the guidecoat curing oven are controlled by thermal oxidizer No. 1. Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven and the two topcoat curing ovens are also controlled by thermal oxidizer No. 1. Note: VOC emissions from the two automatic clearcoat sections of the two topcoat booths and the heated flash are also controlled by thermal oxidizer No. 2.	03/01/2001/ 07/2011	FG-Facility FG-MACT
EU-Topcoat1	A topcoat spray booth followed by a curing oven. There is a heated flash-off area located between the basecoat portion of the booth and the clearcoat portion of the booth. The waterborne basecoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent. The solvent borne clearcoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent. The topcoat booth is equipped with a wet eliminator system to control particulate emissions from paint overspray. VOC emissions from the two automatic clearcoat sections of the topcoat booth and the flash-off area are controlled by thermal oxidizer No. 2. VOC emissions from the topcoat curing oven are controlled by thermal oxidizer No. 1. Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven, the guidecoat curing oven, and topcoat curing oven No. 2 are also controlled by thermal oxidizer No. 1. Note: VOC emissions from the automatic bells section of the guidecoat booth, the heated flash and the two automatic clearcoat sections of topcoat booth No. 2 are also controlled by thermal oxidizer No. 2.	03/01/2001	FG-Facility FG-Topcoat FG-MACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-Topcoat2	A topcoat spray booth followed by a curing oven. There is a heated flash-off area located between the basecoat portion of the booth and the clearcoat portion of the booth. The waterborne basecoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent. The solvent borne clearcoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent. The topcoat booth is equipped with a wet eliminator system to control particulate emissions from paint overspray. VOC emissions from the two automatic clearcoat sections of the topcoat booth and the flash-off area are controlled by thermal oxidizer No. 2. VOC emissions from the topcoat curing oven are controlled by thermal oxidizer No. 1. Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven, the guidecoat curing oven, and topcoat curing oven No. 1 are also controlled by thermal oxidizer No. 1. Note: VOC emissions from the automatic bells section of the guidecoat booth, the heated flash and the two automatic clearcoat sections of topcoat booth No. 1 are also controlled by thermal oxidizer No. 2.	03/01/2001	FG-Facility FG-Topcoat FG-MACT
EU-Sealers&Adhes	Various sealers, adhesives, and fillers are applied in the body shop, the paint shop, and the general assembly areas.	03/01/2001	FG-Facility FG-MACT
EU-GlassInstall	FMVSS (Federal Motor Vehicle Safety Standards) required materials are used to bond the fixed glass to the vehicle.	03/01/2001	FG-Facility FG-MACT
EU-Deadener	Liquid Applied Sound Deadener applied with a robot applicator.	03/01/2001	FG-Facility FG-MACT
EU-Foam	A foam material will be injected into selected hollow areas of the vehicle bodies.	03/01/2001	FG-Facility FG-MACT
EU-VehFuelFill	Each new vehicle will be filled with various fluids such as antifreeze, engine oil, windshield washer fluid, refrigerant, and gasoline. Vehicles being filled with gasoline shall be equipped with an onboard vapor recovery system unless the VOC emissions from EU-Vehicle Fuel Fill are controlled by a VOC control device, which achieves a minimum of 95% (by weight) destruction efficiency.	03/01/2001	FG-Facility
EU-NaturalGas	Natural gas combustion in the ovens, the paint booth air supply houses, the two thermal oxidizers, door heaters, two emergency generators and miscellaneous support equipment.	03/01/2001	FG-Facility
EU-Purge	This operation is the purging of applicators within the paint spray booths. The solvent paint robots are to purge into a collection system.	03/01/2001	FG-Facility FG-Solvents
EU-OtherSolvents	These activities consist of booth cleaning, miscellaneous cleaning activities, and body wipe.	03/01/2001	FG-Facility FG-Solvents
EU-ELPOMetalRpr	A dry filter scuff booth.	03/01/2001	FG-Facility FG-Repair
EU-SpotRepair1	A dry filter spot repair spray booth. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair
EU-SpotRepair2	A dry filter spot repair spray booth. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-SpotRepair3	A dry filter spot repair spray booth. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair
EU-FinalRepair1	A combination final repair dry filter booth and heat lamps. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair FG-MACT
EU-FinalRepair2	A combination final repair dry filter booth and heat lamps. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair FG-MACT
EU-FinalRepair3	A combination final repair dry filter booth and heat lamps. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair FG-MACT
EU-FinalRepair4	A combination final repair dry filter booth and heat lamps. The booth is equipped with air atomized applicators or equivalent.	03/01/2001	FG-Facility FG-Repair FG-MACT
EU-GasTank#1	An above ground gasoline storage tank (25,000 gallons) equipped with submerged fill pipes and conservation vents. The gasoline storage tank is filled using a vapor balance system.	03/01/2001	FG-Facility FG-Storage Tanks
EU-GasTank#2	An above ground gasoline storage tank (25,000 gallons) equipped with submerged fill pipes and conservation vents. The gasoline storage tank is filled using a vapor balance system.	03/01/2001	FG-Facility FG-Storage Tanks
EU-GasTank#3	An above ground gasoline storage tank (10,000 gallons) equipped with submerged fill pipes and conservation vents. The gasoline storage tank is filled using a vapor balance system.	03/01/2001	FG-Facility FG-Storage Tanks
EU-GasTank#4	An above ground gasoline storage tank (10,000 gallons) equipped with submerged fill pipes and conservation vents. The gasoline storage tank is filled using a vapor balance system.	03/01/2001	FG-Facility FG-Storage Tanks
EU-MethTank#1	An above ground methanol (windshield washer fluid) storage tank (20,000 gallons) equipped with submerged fill pipes and conservation vents.	03/01/2001	FG-Facility FG-Storage Tanks FG-OLD
EU-Emergency Generator GA	A 174 HP diesel emergency generator to provide UPS emergency lighting to the General Assembly (GA) building.	2003	FG-MACT ZZZZ Existing Emergency CI < 500 HP
EU-Emergency Generator Paint	A 317 HP diesel emergency generator to provide UPS emergency lighting to the Paint building.	2004	FG-MACT ZZZZ Existing Emergency CI < 500 HP

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-Emergency Generator Building 66	A 605 HP diesel emergency generator to provide UPS emergency power to the computer room in Building 66.	2000	FG-MACT ZZZZ Existing Emergency CI > 500 HP
EU-Emergency GeneratorElpo	A 605 HP diesel emergency generator to provide UPS emergency power to heat and circulate the Elpo (Electrocoat) bath in the Paint building.	2000	FG-MACT ZZZZ Existing Emergency CI > 500 HP
EU-Emergency Diesel Fire Pump LGR	A 420 HP fire pump diesel engine located at the LGR (Paint) Fire Pump House.	2000	FG-MACT ZZZZ Existing Emergency CI < 500 HP
EU-Emergency Diesel Fire Pump Bldg 23	A 77 HP fire pump diesel engine located at the Building 23 Fire Pump House.	1970	FG-MACT ZZZZ Existing Emergency CI < 500 HP
EU-Emergency Generator LOC	A 131.6 HP natural gas emergency generator to provide UPS emergency lighting to the LOC building.	October 2014	FG-Subpart JJJJ
EU-Emergency Generator Stamping	A 131.3 HP natural gas emergency generator to provide UPS emergency lighting to the Stamping building.	August 2015	FG-Subpart JJJJ

EU-Electrocoat
EMISSION UNIT CONDITIONS

DESCRIPTION
An electrocoat dip tank followed by an electrocoat curing oven followed by a dry filtered scuff booth.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT
VOC emissions from both the tank and oven are controlled by a thermal oxidizer (No. 1).
Note: VOC emissions from the guidecoat curing oven and the two topcoat curing ovens are also controlled by thermal oxidizer No. 1.

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall operate EU-Electrocoat such that positive airflow into the enclosed area around the electrocoat dip tank occurs whenever EU-Electrocoat is in use. Positive airflow shall be demonstrated according to a method acceptable to the AQD District Supervisor. In addition, the permittee shall keep all access doors and windows closed on the electrocoat dip tank whenever EU-Electrocoat is in operation.[2] **(R 336.1702(a) & 40 CFR 52.21)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-Electrocoat unless Thermal Oxidizer No. 1 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2] **(R 336.1225, R 336.1702(a), R 336.1901 & 40 CFR 52.21)**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment and additives, as added to the Electrocoat tank, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the Electrocoat tank shall be verified by testing using federal Reference Test Method 24.[2] **(R 336.1702(a) & 40 CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of Thermal Oxidizer No. 1 to monitor and record the temperature on a continuous basis, during operation of EU-Electrocoat. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[2] **(R 336.1702(a), 40 CFR 52.21 & 40 CFR 60 Subpart MM)**

2. The permittee shall keep, in a satisfactory manner, operating temperature records for Thermal Oxidizer No. 1 as required by SC VI.1. If the measured operating temperature of Thermal Oxidizer No. 1 falls below 1400 °F during operation of EU-Electrocoat, compliance may be demonstrated based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. All calculations and records shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1702(a), 40 CFR 52.21 & 40 CFR 60 Subpart MM)**

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. ELPO Oven Canopy Exhaust (G1)	18.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
2. ELPO Oven Cooler Exhaust (G2)	37.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
3. Thermal Oxidizer Number 1 (P1)	68.0[2]	126.0[2]	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).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-Guidecoat
EMISSION UNIT CONDITIONS

DESCRIPTION
A guidecoat spray booth followed by a curing oven. The solvent borne guidecoat is applied automatically with electrostatic bell applicators or equivalent.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT
The guidecoat booth is equipped with a wet eliminator system to control particulate emissions from paint overspray. The spraybooth is comprised of two zones, both utilizing automatic applicators. VOC emissions from Zone 1 of the automatic electrostatic bell section of the guidecoat booth are controlled by thermal oxidizer No. 2. VOC emissions from Zone 2 are vented to the atmosphere. VOC emissions from the guidecoat curing oven are controlled by thermal oxidizer No. 1.

Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven and the two topcoat curing ovens are also controlled by thermal oxidizer No. 1.

Note: VOC emissions from the two automatic clearcoat sections of the two topcoat booths and the heated flash are also controlled by thermal oxidizer No. 2.

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall operate Zone 1 of the automatic bells section portion of EU-Guidecoat such that positive airflow into the controlled automatic bells section occurs whenever EU-Guidecoat is in use. Positive airflow shall be demonstrated according to a method acceptable to the AQD District Supervisor. [2] **(R 336.1702(a), R 336.2810, & 40 CFR 52.21)**

2. The permittee shall install and properly operate the carbon adsorption unit which precedes Thermal Oxidizer No. 2 in accordance with the approved periodic monitoring plan.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810 & 40 CFR 52.21)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate Zone 1 of the automatic bells section of the guidecoat booth portion of EU-Guidecoat unless Thermal Oxidizer No. 2 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2] **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810 & 40 CFR 52.21)**

2. The permittee shall not operate the guidecoat curing oven portion of EU-Guidecoat unless Thermal Oxidizer No. 1 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2] **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810 & 40 CFR 52.21)**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810 & 40 CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of Thermal Oxidizer No. 1 to monitor and record the temperature on a continuous basis, during operation of EU-Guidecoat. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of Thermal Oxidizer No. 2 to monitor and record the temperature on a continuous basis, during operation of EU-Guidecoat. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

3. The permittee shall monitor the condition of the water wash particulate control system through weekly visual inspections.[2] **(R 336.1224, R 336.1301, R 336.1331, R 336.1910, R 336.2810, 40 CFR 52.21)**

4. The permittee shall keep records of visual inspections of the water wash 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 for a period of at least five years and made available to the Department upon request.[2] **(R 336.1224, R 336.1301, R 336.1331, R 336.1910, R 336.2810, 40 CFR 52.21)**

5. The permittee shall keep, in a satisfactory manner, operating temperature records for Thermal Oxidizer No. 1 as required by SC VI.1. If the measured operating temperature of Thermal Oxidizer No. 1 falls below 1400 °F during operation of EU-Guidecoat, compliance may be demonstrated based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. All calculations and records shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R336.2810, 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

6. The permittee shall keep, in a satisfactory manner, operating temperature records for Thermal Oxidizer No. 2 as required by SC VI.2. If the measured operating temperature of Thermal Oxidizer No. 2 falls below 1400 °F during operation of EU-Guidecoat, compliance may be demonstrated based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. All calculations and records shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

See Appendices 3, 4, and 7

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. Primer Cleanup & Solvent Wipe Operations (D1)	30.0[2]	127.0[2]	R 336.1225, R336.1901, R336.2810, 40 CFR 52.21 (c) & (d)
2. Guidecoat Oven Canopy Exhaust	18.0[2]	119.0[2]	R 336.1225, R336.1901, R336.2810, 40 CFR 52.21 (c) & (d)
3. Guidecoat Oven Cooler Exhaust	37.0[2]	119.0[2]	R 336.1225, R336.1901, R336.2810, 40 CFR 52.21 (c) & (d)
4. Thermal Oxidizer Number 1	68.0[2]	126.0[2]	R 336.1225, R336.1901, R336.2810, 40 CFR 52.21 (c) & (d)
5. Guidecoat Manual Tack-Off & Guidecoat Manual Spray Zone	246.0 x 146.0[2]	145.0[2]	R 336.1225, R336.1901, R336.2810, 40 CFR 52.21 (c) & (d)
6. Thermal Oxidizer Number 2 & Concentrator	78.0[2]	127.0[2]	R 336.1225, R336.1901, R336.2810, 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).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-Sealers&Adhes
EMISSION UNIT CONDITIONS

DESCRIPTION
Various sealers, adhesives, and fillers are applied in the body shop, the paint shop, and the general assembly areas.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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

1. The VOC content of each coating or material shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content of each coating or material shall be verified by testing.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40CFR 52.21)**

See Appendix 5

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

EU-GlassInstall
EMISSION UNIT CONDITIONS

DESCRIPTION
FMVSS (Federal Motor Vehicle Safety Standards) required materials are used to bond the fixed glass to the vehicle.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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

1. The VOC content of each coating or material shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided be ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content of each coating or material shall be verified by testing.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

EU-Deadener
EMISSION UNIT CONDITIONS

DESCRIPTION
A waterborne Liquid Applied Sound Deadener material will be applied using a robotic applicator.

Flexible Group ID: FG–Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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

1. The VOC content of each coating or material shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content of each coating or material shall be verified by testing.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

EU-Foam
EMISSION UNIT CONDITIONS

DESCRIPTION
A foam material will be injected into selected hollow areas of the vehicle bodies.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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

1. The VOC content of each coating or material shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content of each coating or material shall be verified by testing.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. EU-Foam (C1)	62.0[2]	89.0[2]	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).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-VehFuelFill
EMISSION UNIT CONDITIONS

DESCRIPTION

Each new vehicle will be filled with various fluids such as antifreeze, engine oil, windshield washer fluid, refrigerant, and gasoline. Vehicles being filled with gasoline shall be equipped with an onboard vapor recovery system unless the VOC emissions from EU-Vehicle Fuel Fill are controlled by a VOC control device, which achieves a minimum of 95% (by weight) destruction efficiency.

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not add fuel to any vehicle without an Onboard Re-fueling Vapor Recovery system unless the VOC emissions from the fuel filling process are controlled by a VOC control device, which achieves a minimum of 95 percent (by weight) destruction efficiency**. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910 and 40 CFR 52.21)**[2]

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. EU-Vehicle Fuel Fill (FF1)	41.0[2]	40.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
2. EU-Vehicle Fuel Fill (FF2)	41.0[2]	40.0[2]	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).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-NaturalGas
EMISSION UNIT CONDITIONS

DESCRIPTION

Natural gas combustion in the ovens, the paint booth air supply houses, the two thermal oxidizers, door heaters, two emergency generators and miscellaneous support equipment

Flexible Group ID: FG-Facility, FG-MACT

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. For EU-Natural Gas, the permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor.
   a. Total natural gas, in cubic feet, used during each calendar month.
   b. NO_X emission rate, in tons per month and tons per 12-month rolling time period.
      i. Emission calculations for booth air supply houses shall be calculated using an emission factor of 85 pounds NO_X per million cubic feet of natural gas.
      ii. Emission calculations for ovens, thermal oxidizers and door heaters shall be calculated using an emission factor of 100 pounds NO_X per million cubic feet of natural gas.

As an alternative, the permittee may keep other records acceptable to the AQD District Supervisor. All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request. [2] **(R 336.1205, 40 CFR 52.21)**

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

D. FLEXIBLE GROUP CONDITIONS

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

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

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-Facility	This flexible group covers conditions, which apply to all of the equipment included within this permit.	All Emission Units
FG-Topcoat	See EU-Topcoat1 and 2	EU-Topcoat1, EU-Topcoat2
FG-Solvents	See EU-Purge and EU-OtherSolvents	EU-Purge, EU-OtherSolvents
FG-StorageTanks	Various liquid material storage tanks.	EU-GasTank#1, EU-GasTank#2, EU-GasTank#3, EU-DieselTank, EU-AFTank#1, EU-AFTank#2, EU-MethTank#1, EU-TF_Tank, EU-PSFTank, EU-WOTank, EU-WGasTank, EU-WSolventTank,
FG-MACT	Emissions units covered the by auto MACT standard (40 CFR 63 Subpart IIII). On and after April 26, 2007, the permittee shall comply with all requirements of this FG.	EU-Electrocoat, EU-Guidecoat, EU-Topcoat1, EU-Topcoat2, EU-Sealers&Adhes, EU-GlassInstall, EU-Deadener, EU-Foam, EU-FinalRepair1-4, EU-SpotRepair1, EU-SpotRepair2, EU-SpotRepair3.
FG-OLD	Organic Liquid Distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. Specifically, these conditions cover existing (construction pre dates April 2, 2002) liquid storage tanks which hold more than 5,000 gallons but less than 50,000 gallons and/or new liquid storage tanks which hold more than 5,000 gallons but less than 10,000 gallons of methanol/windshield washer fill solvents that are dispensed to newly assembled vehicles.	EU-MethTank#1
FG-MACT ZZZZ Existing Emergency CI <500 HP	Existing CI Engines located at a major source <500 HP, Emergency.	EU-Emergency Generator GA, EU-Emergency Generator Paint, EU-Emergency Diesel Fire Pump LGR, EU-Emergency Diesel Fire Pump House
FG-MACT ZZZZ – Existing Emergency CI >500 HP	Existing CI Engines located at a Major Source > 500 HP, Emergency.	EU-Emergency Generator Building 66, EU-Emergency Generator Elpo,

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-Subpart JJJJ Emergency > 100 HP but < 500 HP	This flexible group includes new emergency spark ignition (SI) natural gas fired stationary reciprocating internal combustion engines (RICE)) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR 60, Subpart JJJJ.	EU-SI Emergency Generator LOC, EU-SI Emergency Generator Stamping
FG-Rule290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	EU-Rule290
FG-Rule281(h)	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	EU-Rule281(h)

FG-Facility
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
Emission Units: All Emission Units

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	606 tons per year[2]	12-month rolling time period as determined at the end of each calendar month.	FG-Facility	Special Condition VI.2	R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21
2. VOC	264.3 tons per year[2]	12-month rolling time period as determined at the end of each calendar month.	FG-Facility for production rates less than 60,000 jobs per year.	Special Condition VI.2	R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21
3. VOC	5.73 pounds per job[2, a]	12-month rolling time period as determined at the end of each calendar month.	FG-Facility for production rates 60,000 or more jobs per year.	Special Condition VI.2	R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21
4. NOx	36.5 tons per year[2]	12-month rolling time period as determined at the end of each calendar month.	FG-Facility	Special Condition VI.2	R 336.1205 and R 336.1901

[a] In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined VOC emission limit shall be considered compliance with the VOC emission limit established by **R 336.1225, R 336.1702(a) and 40 CFR 52.21** and also compliance with the VOC emissions limit in **40 CFR 60.392**, an additional applicable requirement that has been subsumed within this condition.

II. MATERIAL LIMIT(S)

1. The total natural gas usage shall not exceed a maximum 769 million cubic feet per year. Compliance with the cubic feet per year limit is based on a rolling time period of 12 consecutive calendar months as determined at the end of each month.[2] **(R 336.1205 and 40 CFR 52.21(c) and (d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate the two automatic clearcoat, two automatic clearcoat bells and one automatic prime bells spray booth portions unless the rotary concentrator is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the rotary concentrator includes maintaining a minimum desorption temperature above the most recent acceptable performance test value minus 15 degrees Fahrenheit and can be based upon a 3-hour average. **(64.6(c)(1)(i),(ii), R 336.1213(3))**

2. The permittee shall not operate the Electrocoat dip tank, the Electrocoat cure oven, the guidecoat curing oven, and the two topcoat curing ovens unless Thermal Oxidizer No. 1 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum

temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2,b] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910 & 40 CFR 52.21, 64.6(c)(1)(i),(ii))**

3. The permittee shall not operate the automatic guidecoat bells, the two basecoat heated flash-off areas, the two automatic clearcoat robots sections, and the two automatic clearcoat bell sections unless Thermal Oxidizer No. 2 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2,b] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910 & 40 CFR 52.21, 64.6(c)(1)(i),(ii))**

[b] In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined VOC monitoring condition shall be considered compliance with the VOC monitoring condition established by **R 336.1225 and R 336.1702(a);** and also compliance with the VOC monitoring conditions in **40 CFR 60.393**, an additional applicable requirement that has been subsumed within this condition.

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each spray coating operation which directly vents to the outdoor air with exhaust filters or water wash particulate controls.[2] **(R 336.1301, R 336.1331, R 336.1901 and 40 CFR 52.21)**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.[2] **(R 336.1313(3))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. In order to maintain the flexibility provided under this permit, changes allowed under Conditions IX.3 or IX.4 may be made as minor permit modifications to the Renewable Operating Permit (ROP) pursuant to R 336.1216(2). Additionally, corresponding changes made to any existing testing, monitoring, record keeping or other compliance evaluation activities may also be made as minor permit modifications to the ROP pursuant to R 336.1216(2) unless they represent a significant change in monitoring (e.g., relaxation in the frequency of the existing testing, monitoring, record keeping or other compliance evaluation activity).[2] **(R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1901 and 40 CFR 52.21)**

2. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor.
   a. For each material used in FG-Facility:[c]
      i.. Material identification;
      ii. Material VOC content; and,
      iii. Material usage.
   b. Number of jobs each calendar month, where a job is defined as a completely assembled vehicle off the final assembly line.[c]
   c. Calculations showing the monthly and annual mass VOC emission rates, in tons per month and tons per 12-month rolling time period, as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used.[c]
   d. Calculations showing the VOC emission rate (lb/job) on a 12-month rolling basis, as determined at the end of each calendar month.[c]

e. Records of the total natural gas used during each calendar month, in cubic feet, and the portion of that total used combined by all of the paint booth air supply houses.
f. Calculations showing the monthly and annual mass NO_X emission rates in tons per month and tons per 12-month rolling time period performed according to an acceptable method.

As an alternative, the permittee may keep other records acceptable to the AQD District Supervisor. All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1225, R 336.1702(a), 40 CFR 52.21)**

3. Permittee shall monitor or secure the valve or closure mechanism controlling each bypass line for each capture system in a non-bypass mode such that the valve or closure mechanism cannot be opened without creating a record that it was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the following:
   a. Flow control position indicator.
   b. Car-seal or lock-and-key valve.
   c. Valve closure monitoring.
   d. Automatic shutdown system.

   If any bypass line is opened, a description of why the line was opened and the length of time it remained open must be included in the semi-annual compliance reports required in Special Condition No. VII.2. **(64.3(a)(2), R 336.1213(3))**

4. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device to determine the concentrator desorption gas inlet temperature on a continuous basis, during operation of FG-Topcoat. Desorption gas inlet temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[b] **(64.6(c)(1)(i),(ii), R 336.1213(3))**

5. The permittee shall keep records of maintenance inspections for the rotary concentrator(s) which include the dates and results of the inspections and the dates and reasons for repairs. The following items listed below shall be inspected as follows:
   a. Observe and record an indicator of performance for the desorption fan on a monthly basis.
   b. Observe and record an indicator of wheel rotation for the concentrator on a monthly basis.
   c. Observe and record the pressure drop across the concentrator on a monthly basis.
   d. Observe the adsorbent materials for any contamination and/or erosion on an annual basis.

   All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(64.6(c)(1)(i),(ii), R 336.1213(3)**

6. The permittee shall keep records of maintenance inspections for the thermal oxidizer which include the dates and results of the inspections and the dates and reasons for repairs. The following items listed below shall be inspected at least annually:
   a. Verify the condition of the heat exchanger and/or heat transfer media on an annual basis.
   b. Verify valve seal synchronization and inspection of valve seal(s) condition on an annual basis.

   All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(64.6(c)(1)(i),(ii), R 336.1213(3))**

See Appendix 7

[c] In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined VOC recordkeeping condition shall be considered compliance with the VOC monitoring condition established by **R 336.1225 and R 336.1702(a);** and also compliance with the VOC monitoring conditions in **40 CFR 60.393**, an additional applicable requirement that has been subsumed within this condition.

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.[d] **(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. Each semi-annual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions/exceedances and the corrective actions taken. If there were no excursions/exceedances in the reporting period, then this report shall include a statement that there were no excursions/exceedances. **(40 CFR 64.9(a)(2)(i), R 336.213(3)(c))**

See Appendix 8

[d] In accordance with Rule 213(2) and Rule 213(6), compliance with this streamlined reporting condition shall be considered compliance with the reporting condition established by **R 336.1213(3)(c)(i)**; and also compliance with the VOC reporting condition in **40 CFR 60.395**, an additional applicable requirement that has been subsumed within this condition.

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			

IX. OTHER REQUIREMENT(S)

1. The emission and performance limits listed in Conditions I.1 through I.4 have been determined to be at least as stringent as, and replace, the individual emission unit-specific limits of PTI No. 134-99G which were established under MDEQ Rules and federal NSR regulations. Compliance with the limits established in Conditions I.1 through I.4 constitutes compliance with the MDEQ Rules and federal NSR regulations that formed the basis for the limits of PTI No. 134-99G.[2] **(R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21)**

2. MDEQ has determined that compliance with the limits listed in Conditions I.1 through I.4 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.* Accordingly, compliance with the limitations in this permit meets all applicable requirements of 40 CFR Part 60, Subpart MM.[2] **(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 Conditions I.1 through I.4. Such activities do not require the facility to obtain any federal or state air permits.[2] **(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 Conditions I.1 through I.4 under the following conditions:
   a. As a state-only enforceable requirement, the new emission unit will not result in a meaningful change in the nature or quantity of toxic air contaminants emitted from the stationary source. The permittee must demonstrate to the department that a meaningful change in the nature or quantity of toxic air contaminants has not occurred. The permittee may devise its own method to perform this demonstration subject to approval by the department. However, if the permittee demonstrates that all toxic air contaminant emissions from a new emissions unit are within the levels specified in R 336.1226 or R 336.1227, a meaningful change in toxic air contaminants has not occurred;
   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 not otherwise referenced in Condition IX.1.

   A demonstration that the new installation meets these criteria shall be kept on site for the life of the new emissions 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.[2] **(R 336.1201)**

5. The emission limits and performance levels specified in Conditions I.1 through I.4 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 it's State Implementation Plan, may impose on the facility become applicable during the term of the permit that would lower allowable emissions. Adjustments to Conditions I.1 through I.4 will be made through a permit revision as of the final compliance 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 first 12-month period after the final compliance date of the new applicable requirements. **(R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21)**[2]

6. The permittee may, at any time, request that MDEQ terminate the flexible emission limit provisions of this permit and issue a traditional permit. In the event of such termination, the requirements of this ROP shall remain in effect until a valid replacement ROP is issued. At that time, the permit conditions for any emission unit that has not been modified and to which new requirements have not become applicable will revert to those found in PTI No. 134-99G. For any 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 such modification or new requirement applicability. **(R 336.1225, R 336.1702(a), R 336.1901 and 40 CFR 52.21)**[2]

7. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: **(40 CFR 64.6(c)(2))**
   a. A temperature excursion is defined as a confirmed three-hour period during which the average fails to meet the specified temperature requirements in special conditions III.1, III.2, and III.3
   b. A monitoring excursion is defined as a failure to properly monitor as required in special conditions VI.3 and VI.4
   c. An inspection excursion is defined as failure to complete an inspection required in special conditions VI.5 and VI.6.

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

FG-Topcoat
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two parallel topcoat spray systems which consist of a spray booth followed by a curing oven. There is a heated flash-off area located between the basecoat portion of the booth and the clearcoat portion of the booth. The waterborne basecoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent. The solvent borne clearcoat is applied automatically with electrostatic bell and electrostatic robot applicators or equivalent.

Emission Units: EU-Topcoat1, & EU-Topcoat2

POLLUTION CONTROL EQUIPMENT

The topcoat booths are equipped with a wet eliminator system to control particulate emissions from paint overspray. VOC emissions from the two automatic clearcoat sections of the topcoat booths and the flash-off area are controlled by thermal oxidizer No. 2. VOC emissions from the topcoat curing ovens are controlled by thermal oxidizer No. 1.

Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven, the guidecoat curing oven, and topcoat curing oven No. 2 are also controlled by thermal oxidizer No. 1.

Note: VOC emissions from an automatic bells section of the guidecoat booth, the heated flash and the two automatic clearcoat sections of topcoat booth No. 2 are also controlled by thermal oxidizer No. 2.

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall operate each automatic clearcoat robot section and each automatic clearcoat bell section of both topcoat booths such that positive airflow into the controlled automatic sections occurs whenever FG-Topcoat is in use. Positive airflow shall be demonstrated according to a method acceptable to the AQD District Supervisor.[2] **(R 336.1702(a) & 40 CFR 52.21)**

2. The permittee shall install and properly operate the carbon adsorption unit which precedes Thermal Oxidizer No. 2 in accordance with the approved periodic monitoring plan.[2] **(R 336.1205, R 336.1224, R 336.1225, 336.1702(a), R 336.1910 & 40 CFR 52.21)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the two topcoat curing ovens portion of FG-Topcoat unless Thermal Oxidizer No. 1 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910 & 40 CFR 52.21)**

2. The permittee shall not operate the two basecoat heated flash-off areas, the two automatic clearcoat robots sections, and the two automatic clearcoat bells sections portions of FG-Topcoat unless Thermal Oxidizer No. 2 is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature of 1400 °F and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1400 °F based upon a three-hour rolling average may be used.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910 & 40 CFR 52.21)**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of Thermal Oxidizer No. 1 to monitor and record the temperature on a continuous basis, during operation of FG-Topcoat. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of Thermal Oxidizer No. 2 to monitor and record the temperature on a continuous basis, during operation of FG-Topcoat. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

3. The permittee shall monitor the condition of the water wash particulate control system through weekly visual inspections.[2] **(R 336.1224, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21)**

4. The permittee shall keep records of visual inspections of the water wash 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 for a period of at least five years and made available to the Department upon request.[2] **(R 336.1224, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21)**

5. The permittee shall keep, in a satisfactory manner, operating temperature records for Thermal Oxidizer No. 1 as required by special condition IV.1. If the measured operating temperature of Thermal Oxidizer No. 1 falls below 1400 °F during operation of FG-Topcoat, compliance may be demonstrated based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. All calculations and records shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

6. The permittee shall keep, in a satisfactory manner, operating temperature records for Thermal Oxidizer No. 2 as required by special condition IV.2. If the measured operating temperature of Thermal Oxidizer No. 2 falls below 1400 °F during operation of FG-Topcoat, compliance may be demonstrated based upon a three-hour average temperature, by calculating the average operating temperature for each three hour period which includes one or more temperature readings below 1400 °F. All calculations and records shall be kept on file for a period of at least five years and made available to the Department upon request.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21, 40 CFR 60.13 & 40 CFR 60.390)**

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. Topcoat Solvent Wipe & Manual Tack-Off Operations (D2)	49.0[2]	127.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
2. Topcoat Oven No. 1 Canopy Exhaust (H1)	18.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
3. Topcoat Oven No. 1 Cooler Exhaust (H2)	37.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
4. Topcoat Oven No. 2 Canopy Exhaust (I1)	18.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
5. Topcoat Oven No. 2 Cooler Exhaust (I2)	37.0[2]	119.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
6. Thermal Oxidizer Number 1 (P1)	68.0[2]	126.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
7. Basecoat Manual & Automatic Spray Zones and Clearcoat Backup/Manual Spray Zone (S1)	246.0 x 146.0[2]	145.0[2]	R 336.1225, 40 CFR 52.21 (c) & (d)
8. Thermal Oxidizer Number 2 & Concentrator (S2)	78.0[2]	127.0[2]	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).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-Solvents
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Purging of applicators within the paint spray booths. The paint robots using solventborne purge are to purge into a collection system. Booth cleaning, miscellaneous cleaning activities, and body wipe.

Emission Units: EU-Purge, EU-OtherSolvents

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any solvent as applied and as received, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

FG-Repair
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
Three spot repair booths, four final repair booths and an Elpo heavy metal repair booth.

Emission Unit: EU-ELPOMetalRpr, EU-SpotRepair1, EU-SpotRepair2, EU-SpotRepair3, EU-FinalRepair1, EU-FinalRepair2, EU-FinalRepair3, EU-FinalRepair4

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall process automobile bodies through each of the three spot repair booths, through the Elpo Heavy Metal Repair Booth, and through each of the four combination final repair booths/heat lamps in conjunction with the dry filter particulate control systems, in each, being installed, maintained and operated in a satisfactory manner.[2] **(R 336.1224, R 336.1331, R 336.1901, R 336.1910, & 40 CFR 52.21)**

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24. Alternatively, for waterborne materials, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

NA

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. Spot Repair Booth Nos. 1, 2, & 3 (F1)*	63.0[2]	112.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
2. Spot Repair Booth Nos. 1, 2, & 3 (F2)*	63.0[2]	112.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
3. Elpo Heavy Metal Repair Booth (F3)	26.0[2]	111.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
4. Combination Final Repair Booth & Oven No. 1 (FR1)	40.0[2]	50.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
5. Combination Final Repair Booth & Oven No. 1(FR2)	40.0[2]	50.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
6. Combination Final Repair Booth & Oven No. 1 (FR3)	40.0[2]	49.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
7. Combination Final Repair Booth & Oven No. 1 (FR4)	40.0[2]	49.0[2]	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
*Note, Spot Repair Booth Nos. 1, 2, and 3 share two common exhaust stacks, Nos. F1 and F2.			

IX. OTHER REQUIREMENT(S)

NA

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

FG-StorageTanks
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
Various liquid material storage tanks.

Emission Units: EU-Gas Tank#1, EU-Gas Tank #2, EU-Gas Tank#3, EU-Gas Tank#4, and EU-Meth Tank.

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not unload materials into any of the 4 gasoline storage tanks (EU-GasTank#1, EU-GasTank#2, EU-GasTank#3, EU-GasTank#4) unless their vapor balance system is installed and operated in a satisfactory manner.[2] **(R 336.1702(a) & 40 CFR 52.21)**

2. The permittee shall equip and maintain each of the 5 liquid storage tanks in FG-Storage Tanks with a submerged fill pipe, a combination conservation vent and flame arrester, and a vacuum relief valve/vent. All of these must be installed and operated in a satisfactory manner whenever a tank is used.[2] **(R 336.1702(a) & 40 CFR 52.21)**

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

1. The VOC content of each material stored in FG-Storage Tanks shall be determined using manufacturer's formulation data.[2] **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004 & 40 CFR 52.21)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1 Monitoring and recording of operating information for the 20,000 gallon methanol storage tank is required to comply with federal Standards of Performance for New Stationary Sources as specified in 40 CFR part 60, Subparts A and Kb. All required records shall be kept on file for the period specified below and shall be made available to the Department upon request:[2]

a. For all of the above listed tanks, dimensions and capacity analysis for the lifetime of the tanks.
b. For only the 20,000 gallon methanol tank, records of the volume of material stored; the length of time the material was stored; and the maximum true vapor pressure of the material stored shall be kept on file for a minimum of two years. **(40 CFR 60.390)**

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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

FG-MACT
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Each new, reconstructed, or existing affected source as defined in 40 CFR 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts, 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.

The date by which the permittee must comply with the conditions of FG-MACT is as follows:

- For a new or reconstructed source whose initial startup date was before June 25, 2004, the compliance date is June 25, 2004. **(40 CFR 63.3083(a))**
- For a new or reconstructed source whose initial startup date is after June 25, 2004, the compliance date is the date of initial startup of the affected source. **(40 CFR 63.3083(a))**
- For an existing affected source, the compliance date is April 26, 2007. **(40 CFR 63.3083(b))**

Flexible Group ID: EU-Electrocoat, EU-Guidecoat, EU-Topcoat1, EU-Topcoat2, EU-Sealers&Adhes, EU-GlassInstall, EU-Deadener, EU-Foam, EU-FinalRepair1- 4, EU-SpotRepair1, EU-SpotRepair2, EU-SpotRepair3

POLLUTION CONTROL EQUIPMENT

VOC emissions from the two automatic clearcoat sections of the topcoat booths and the flash-off area are controlled by thermal oxidizer No. 2. VOC emissions from the topcoat curing ovens are controlled by thermal oxidizer No. 1.

Note: VOC emissions from the electrocoat dip tank and the electrocoat curing oven, the guidecoat curing oven, and topcoat curing oven No. 2 are also controlled by thermal oxidizer No. 1.

Note: VOC emissions from the automatic bells section of the guidecoat booth, the heated flash and the two automatic clearcoat sections of topcoat booth No. 2 are also controlled by thermal oxidizer No. 2.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.60 lb per GACS[2]	Calendar month	FG-MACT WITH ECOAT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3091(a)
2. Organic HAP*	1.10 lbs per GACS[2]	Calendar month	FG-MACT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3091(b)
3. Organic HAP	0.01 lb per lb of coating[2]	Calendar month	EU-ADHESIVES & SEALERS	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 lb per lb of coating[2]	Calendar month	EU-DEADENERS	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(d) or 63.3091(d)

- **FG-MACT** includes Guidecoat, Topcoat, Final Repair, Spot 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.
- **FG-MACT WITH ECOAT** also includes Electrocoat operations in addition to all of the operations of FG-MACT.
- **EU-ADHESIVES/SEALERS** includes only adhesives and sealers that are not part of glass bonding systems.

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

5. The permittee may choose to comply with either Special Condition Nos. I.1 or I.2. Special Condition No. I.2 may be chosen only if Electrocoat system (EU-ECOAT) meets either of the following requirements. **(40 CFR 63.3092)**
   a. Each individual material added to the Electrocoat system contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any OHSA-defined carcinogenic organic HAP. or
   b. The emissions from all Electrocoat bake ovens are captured and ducted to a CONTROL DEVICE having a minimum destruction or removal 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 Condition Nos. 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.
   a. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
   b. Spills of organic-HAP containing coatings, thinners, cleaning materials, and waste materials must be minimized.
   c. Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
   d. 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.
   e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
   f. Organic HAP emissions from cleaning and from purging of equipment associated with all coating operations subject to emission limits in Special Conditions Nos. I.1 through I.4 above must be minimized by addressing:
      i. Vehicle body wipe pursuant to 40 CFR 63.3094(c)(1)(i);
      ii. Coating line purging pursuant to 40 CFR 63.3094(c)(1)(ii);
      iii. Coating system flushing pursuant to 40 CFR 63.3094(c)(1)(iii);
      iv. Cleaning of spray booth grates pursuant to 40 CFR 63.3094(c)(1)(iv);
      v. Cleaning of spray booth walls pursuant to 40 CFR 63.3094(c)(1)(v);
      vi. Cleaning of spray booth equipment pursuant to 40 CFR 63.3094(c)(1)(vi);
      vii. Cleaning of external spray booth areas pursuant to 40 CFR 63.3094(c)(1)(vii);
      viii. Additional housekeeping measures pursuant to 40 CFR 63.3094(c)(1)(viii).

2. 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))**

3. The work practice plan shall not become part of the facility's Renewable Operating Permit. Revisions to the work practice plan likewise do not represent revisions to the facility's Renewable Operating Permit. 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 Air Quality Division upon request.[2] **(40 CFR 63.3094)**

4. For any coating operation(s) for which HAP emission reductions due to the use of add-on control equipment are relied upon to demonstrate compliance with the emission limits in Special Condition Nos. I.1 through I.4 above, the permittee shall meet the operating limits specified in Table 1 of 40 CFR 63 Subpart IIII as identified below.

The operating limits in Table 1 apply to the emission capture and add-on control systems on the coating operations. The permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3167. The operating limits shall be met at all times after they are established, except for periods of startup, shutdown and malfunction. **(40 CFR 63.3093, 40 CFR 63.3100(b), (d) and Table 1)**

Add-On Control Device:	Operating Limit:
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).

5. The permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) in accordance with 40 CFR 63.6(e)(3). This plan must address the startup, shutdown and corrective actions in the event of a malfunction of any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends. The SSMP must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.[2] **(40 CFR 63.3100(f))**

6. The permittee shall operate and maintain FG-MACT including any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends according to the provisions in 40 CFR 63.6(e)(1)(i). **(40 CFR 63.3100(d))**

7. The permittee shall maintain a log detailing the operation and maintenance of any emission capture system, add-on control device, or continuous parameter monitor upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends. The log shall cover the period between the compliance date specified in 40 CFR 63.3083 and the date when the initial emission capture system and add-on control device performance tests have been completed, as specified in 40 CFR 63.3160. **(40 CFR 63.3100(e))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years.[2] **(R 336.1213(3)(b)(ii), 40 CFR 63.3130, 40 CFR 63.3131)**

1. The permittee shall perform the applicable performance tests and compliance demonstrations in accordance with 40 CFR 63.3150-3152, 40 CFR 63.3160-3161, 40 CFR 63.3163-3168, 40 CFR 63.3170-3171, and 40 CFR 63.3173. **(40 CFR Part 63, Subpart IIII)**

2. The permittee may rely upon the results of capture, destruction or 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)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years.[2] **(R 336.1213(3)(b)(ii), 40 CFR 63.3131)**

1. The permittee shall compile all required records and complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the end of the calendar month following each compliance period unless otherwise specified in any monitoring/recordkeeping condition. **(R 336.1213(3))**

2. 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.[2] **(40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))**

3. The permittee shall install, operate and maintain each continuous parametric monitoring system in accordance with the applicable provisions of 40 CFR 63.3168.[2] **(40 CFR 63.3168)**

4. 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 63.3130, 40 CFR 63.3131)**

5. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date:
   a. A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart IIII and the documentation supporting each notification and report as specified in 40 CFR 63.3130(a). **(40 CFR 63.3130(a))**
   b. A current copy of information provided by materials suppliers or manufactures, 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. Monthly records of the following:
      i. For each coating or thinner used in FG-MACT or FG-MACT WITH ECOAT, 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))**
      ii. For each material used in EU-DEADENERS and EU-SEALERS & ADHESIVES, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**
      iii. Calculations of the organic HAP emission rate for FG-MACT or FG-MACT WITH ECOAT in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat system shall be kept. 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)**
      iv. Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EU-DEADENERS and EU-SEALERS & ADHESIVES. **(40 CFR 63.3130(c), 40 CFR 63.3152)**
      v. The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) - (f))**
   d. Any additional records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends, pursuant to 40 CFR 63.3130(g) through (o). **(40 CFR 63.3130(g) – (o))**
   e. Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition

Nos. I.1 through I.4 depends must be maintained on-site for the life of the equipment in a location readily available to plant operators and inspectors. **(40 CFR 63.3130(o))**

6. The permittee shall demonstrate continuous compliance with the operating limits specified in Table 1 of Subpart IIII of Part 63 for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends pursuant to 40 CFR 63.3163 and 40 CFR 63.3173 using the method(s) described below: **(40 CFR 63.3163, 40 CFR 63.3173 and Table 1)**

Add-On Control Device:	Operating Limit:	Continuous Compliance Demonstration Method
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).	Collect the combustion temperature data according to 40 CFR 63.3168(c); Reduce the data to 3-hour block averages; and Maintain the 3-hour average combustion temperature at or above temperature limit.
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).	Collect the temperature data according to 40 CFR 63.3168(f); Reduce the data to 3-hour block averages; and Maintain the 3-hour average temperature at or above the temperature limit.

7. Permittee shall monitor or secure the valve or closure mechanism controlling each bypass line for each capture system upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends in a non-bypass mode such that the valve or closure mechanism cannot be opened without creating a record that it was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the following:
   a. Flow control position indicator requirements pursuant to 40 CFR 63.3168(b)(1)(i);
   b. Car-seal or lock-and-key valve closures requirements pursuant to 40 CFR 63.3168(b)(1)(ii);
   c. Valve closure monitoring requirements pursuant to 40 CFR 63.3168(b)(1)(iii);
   d. Automatic shutdown system requirements pursuant to 40 CFR 63.3168(b)(1)(iv).

   If any bypass line is opened, a description of why the line was opened and the length of time it remained open must be included in the semi-annual compliance reports required in Special Condition No. VII.2. **(40 CFR 63.3168(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. [2] **(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. [2] **(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. [2] **(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.[2] **(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 Part 63, Subparts A and IIII)**

6. For any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends, the permittee shall submit all performance test reports for emission capture systems and add-on control devices, and reports of transfer efficiency tests as required by 40 CFR 63.3120(b). **(40 CFR 63.3120(b))**

7. For any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Nos. I.1 through I.4 depends for which a startup, shutdown, or malfunction occurs during the semiannual reporting period, the permittee shall submit a SSM report as specified in 40 CFR 63.3120(c). **(40 CFR 63. 3120(c), 40 CFR 63.10(d))**

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			

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. **(40 CFR Part 63, Subparts A and IIII)**

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

FG-OLD
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

The affected source is each new, reconstructed, or existing Organic Liquid Distribution (OLD) (non-gasoline) operation that is located at, or is part of a major source of hazardous air pollutant (HAP) emissions. The affected source is comprised of storage tanks, transfer racks, equipment leak components associated with storage tanks, transfer racks and pipelines, transport vehicles, and all containers while loading or unloading at transfer racks subject to this subpart. Equipment that is part of an affected source under another NESHAP is excluded from the affected source. **(40 CFR 63.2338(c))**

These conditions specifically cover existing (construction pre dates April 2, 2002) liquid storage tanks which hold more than 5,000 gallons but less than 50,000 gallons and/or new liquid storage tanks which hold more than 5,000 gallons but less than 10,000 gallons of methanol/windshield washer fill solvents that are dispensed to newly assembled vehicles.

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. For each existing storage tank with a capacity greater than 5,000 gallons but less than 50,000 gallons, the permittee shall comply with the requirements of 63.2343(b). **(40 CFR 63.2343(b))**

2. For each new storage tank with a capacity greater than 5,000 gallons but less than 10,000 gallons, the permittee shall comply with the requirements of 63.2343(b). **(40 CFR 63.2343(b))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii), 40 CFR 63.2394)**

1. The permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 Organic liquid, which verifies the storage tank is not required to be controlled under this subpart. The documentation shall be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review. **(63.2343(b)(3))**

VII. REPORTING

1. The permittee shall submit the following information in either the Notification of Compliance Status, according to the schedule in Table 12 to this subpart, or in your first Compliance report according to the schedule in 63.2386(b), whichever occurs first. **(63.2343(b)(1))**
   a. Company name and address.
   b. A statement by a responsible official, including the official's name, title and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate and complete.
   c. Date of report and beginning and ending dates of the reporting period.
   d. A list of all storage tanks greater than 5,000 gallons that are part of the affected source but not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.

2. The permittee shall submit subsequent compliance reports according to the schedule in 63.2386(b) or in conjunction with the reporting requirements in this ROP whenever any of the following events occur as applicable: **(63.2343(b)(2))**
   a. Any storage tank became subject to control under this subpart EEEE.
   b. Any storage tank greater than 5,000 gallons became part of the affected source, but is not subject to any emission limitations, operating limits or work practice standards of this subpart.

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			

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 EEEE as they apply to FG-OLD. The permittee may choose an alternative compliance method not listed in FG-OLD by providing the appropriate notifications required under 40 CFR 63.9(j), maintaining a log required by 40 CFR 70.6(a)(9), and by complying with all applicable provisions required by Subpart EEEE for the compliance option chosen. **(40 CFR Part 70.6(a)(9), 40 CFR Part 63.9(j), 40 CFR Part 63, Subparts A and EEEEE)**

FG – MACT ZZZZ – EXISTING EMERGENCY CI < 500 HP FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Existing CI Engines located at a Major Source < 500 HP, Emergency

Emission Units: EU-Emergency Generator GA, EU-Emergency Generator Paint, EU-Emergency Diesel Fire Pump LGR, EU-Emergency Diesel Fire Pump Bldg 23

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The emergency CI engine/s shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63 Subpart ZZZZ Table 2c:
   a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.2.
   b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
   c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   If the emergency engine is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63 Subpart ZZZZ Table 2c, Item 1)**

2. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c to this subpart. **(40 CFR 63.6625(i))**

3. The permittee shall install, maintain and operate the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6625(e))**

4. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c to this subpart apply. **(40 CFR 66.6625(h))**

5. The permittee shall not allow the engine(s) to exceed 100 hours for maintenance checks and readiness testing and emergency demand response. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(2)(i))**

6. The permittee may operate the engines up to 50 hours per year for non-emergency situations, but those hours are to be counted towards the 100 hrs/year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(3). **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install a non-resettable hour meter on each engine. **(40 CFR 63.6625 (f))**

V. TESTING/SAMPLING

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

1. If using the oil analysis program, the permittee must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must 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))**

VI. MONITORING/RECORDKEEPING

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

1. For each CI engine/s the permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**

2. For each CI engine/s the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(5), 40 CFR 63.6660)**

3. For each CI engine/s the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.3. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660)**

4. For each CI engine/s the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**

5. For each CI engine/s the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(f), 40 CFR 63.6660)**

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8-1

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subparts A-General Provisions and ZZZZ-National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. **(R 336.1213), (40 CFR Part 63 Subparts A and ZZZZ)**

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

FG – MACT ZZZZ – EXISTING EMERGENCY CI > 500 HP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
Existing CI Engines located at a Major Source > 500 HP, Emergency

Emission Units: EU-Emergency Generator Building 66, EU-Emergency Generator Elpo

POLLUTION CONTROL EQUIPMENT
NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not allow the engine(s) to exceed 100 hours for maintenance checks and readiness testing and emergency demand response. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(2)(i))**

2. The permittee may operate the engines up to 50 hours per year for non-emergency situations, but those hours are to be counted towards the 100 hrs/year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(3). **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

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

NA

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

1. For each CI engine/s the permittee shall keep in a satisfactory manner, records of hours of operation. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3))**

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8-1

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subparts A-General Provisions and ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. **(R 336.1213), (40 CFR Part 63 Subparts A and ZZZZ)**

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

FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP FLEXIBLE GROUP CONDITIONS

DESCRIPTION

This flexible group includes new emergency spark ignition (SI) natural gas fired stationary reciprocating internal combustion engines (RICE)) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP) but less than 500 (HP) and subject to 40 CFR 60, Subpart JJJJ.

Emission Units: EU-SI Emergency Generator LOC, EU-SI-Emergency Generator Stamping

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	2.0 g/hp-hr or 160 ppmvd @15% O^2	Test Protocol*	EU-SI Emergency Generator LOC, EU-SI-Emergency Generator Stamping	SC V.1, SC VI.4	**40 CFR 60.4233(e) Table 1**
2. CO	4.0 g/hp-hr or 540 ppmvd @15% O^2	Test Protocol*	EU-SI Emergency Generator LOC, EU-SI-Emergency Generator Stamping	SC V.1, SC VI.4	**40 CFR 60.4233(e) Table 1**
3. VOC	1.0 g/hp-hr or 86 ppmvd @15% O^2	Test Protocol*	EU-SI Emergency Generator LOC, EU-SI-Emergency Generator Stamping	SC V.1, SC VI.4	**40 CFR 60.4233(e) Table 1**
*Test Protocol shall determine averaging time.					

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee may operate FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per year. FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP may operate each engine up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d))**

2. The permittee shall operate and maintain FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**

3. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP:
   a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
   b. Keep a maintenance plan and the permittee may only change those engine settings that are permitted by the manufacturer. If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4243(b)(1))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. EU-SI Emergency Generator LOC and EU-SI-Emergency Generator Stamping shall each be equipped with a non-resettable hour meter. **(R 336.1213(3)), (40 CFR 60.4237 (b))**

2. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. **(40 CFR 60.4243(g))**

V. TESTING/SAMPLING

1. The permittee shall conduct an initial performance test for FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP within one year after startup of the engine to demonstrate compliance with the emission limits in 40 CFR 60.4233(e), unless the engines have been certified by the manufacturer as required by 40 CFR Part 60 Subpart JJJJ and the permittee maintains the engine as required by 40 CFR 60.4243(b)(1). If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244. No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(40 CFR 60.4243, 40 CFR 60.4244, 40 CFR Part 60 Subpart JJJJ)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep records of the hours of operation for FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP through a non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. **(40 CFR 60.4245(b))**

2. The permittee shall keep records of all notifications submitted to comply with this subpart and all documentation supporting any notification. **(40 CFR 60.4245(a)(1))**

3. The permittee shall keep records of maintenance conducted to demonstrate compliance. **(40 CFR 60.4243(a)(2), 60.4245(2))**

4. The permittee shall keep records of documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054 and 1060, as applicable. **(40 CFR 60.4245(a)(3))**

5. If FG-NSPS JJJJ EMERGENCY > 100 HP BUT < 500 HP is not a certified engine or a certified engine is operating in a non-certified manner and subject to 60.4243(a)(2), documentation that the engine meets the emission standards. **(40 CFR 60.4245(a)(4))**

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8-1

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the New Source Performance Standards, as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to each affected emergency engine. **(40 CFR Part 60, Subparts A and JJJJ)**

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

FGRULE290
FLEXIBLE GROUP CONDITIONS

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

Emission Unit:

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds or noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone if the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(i))**

2. Each emission unit that the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: **(R 336.1290(a)(ii))**
   a. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(ii)(A))**
   b. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 microgram per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(B))**
   c. For carcinogenic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(C))**
   d. The emission unit shall not emit any air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. **(R 336.1290(a)(ii)(D))**

3. Each emission unit that emits only noncarcinogenic particulate air contaminants and other air contaminants that are exempted under Rule 290(a)(i) and/or Rule 290(a)(ii), if all of the following provisions are met: **(R 336.1290(a)(iii))**
   a. The particulate emissions are controlled by an appropriately designed and operated fabric filter collector or an equivalent control system which is designed to control particulate matter to a concentration of less than or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have an exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(a)(iii)(A))**
   b. The visible emissions from the emission unit are not more than 5 percent opacity in accordance with the methods contained in Rule 303. **(R 336.1290(a)(iii)(B))**
   c. The initial threshold screening level for each particulate air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(a)(iii)(C))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the DEQ, AQD Rule 290, Permit to Install Exemption Record form (EQP 3558) or an alternative format that is approved by the AQD District Supervisor. **(R 336.1213(3))**
   a. Records identifying each air contaminant that is emitted. **(R 336.1213(3))**
   b. Records identifying if each air contaminant is controlled or uncontrolled. **(R 336.1213(3))**
   c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. **(R 336.1213(3))**
   d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(a)(ii) and (iii). **(R 336.1213(3))**
   e. Material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in sufficient detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. **(R 336.1213(3), R 336.1290(c))**

2. The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. **(R 336.1213(3))**
   a. The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. **(R 336.1290(b), R 336.1213(3))**
   b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate**. (R 336.1213(3))**

3. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. **(R 336.1213(3))**

See Appendix 4

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FGCOLDCLEANERS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit:

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Cleaned parts shall be drained for no less than 15 seconds or until dripping ceases. **(R 336.1611(2)(b), R 336.1707(3)(b))**

2. The permittee shall perform routine maintenance on each cold cleaner as recommended by the manufacturer. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:
   a. The air/vapor interface of the cold cleaner is no more than ten square feet. **(R 336.1281(h))**
   b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment. **(R 336.1285(r)(iv))**

2. The cold cleaner shall be equipped with a device for draining cleaned parts. **(R 336.1611(2)(b), R 336.1707(3)(b))**

3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner. **(R 336.1611(2)(a), R 336.1707(3)(a))**

4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated. **(R 336.1707(3)(a))**

5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:
   a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7. **(R 336.1707(2)(a))**
   b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0. **(R 336.1707(2)(b))**
   c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD. **(R 336.1707(2)(c))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions. **(R 336.1213(3))**

2. The permittee shall maintain the following information on file for each cold cleaner: **(R 336.1213(3))**
   a. A serial number, model number, or other unique identifier for each cold cleaner.
   b. The date the unit was installed, manufactured or that it commenced operation.
   c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(h).
   d. The applicable Rule 201 exemption.
   e. The Reid vapor pressure of each solvent used.
   f. If applicable, the option chosen to comply with Rule 707(2).

3. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner. **(R 336.1611(3), R 336.1707(4))**

4. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis. **(R 336.1213(3), R 336.1611(2)(c), R 336.1707(3)(c))**

VII. REPORTING

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

2. 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. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

E. NON-APPLICABLE REQUIREMENTS

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

APPENDICES

Appendix 1: Abbreviations and Acronyms

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

AQD	Air Quality Division	MSDS	Material Safety Data Sheet
acfm	Actual cubic feet per minute	MW	Megawatts
BACT	Best Available Control Technology	NA	Not Applicable
BTU	British Thermal Unit	NAAQS	National Ambient Air Quality Standards
°C	Degrees Celsius	NESHAP	National Emission Standard for Hazardous Air Pollutants
CAA	Federal Clean Air Act	NMOC	Non-methane Organic Compounds
CAM	Compliance Assurance Monitoring	NOx	Oxides of Nitrogen
CEM	Continuous Emission Monitoring	NSPS	New Source Performance Standards
CFR	Code of Federal Regulations	NSR	New Source Review
CO	Carbon Monoxide	PM	Particulate Matter
COM	Continuous Opacity Monitoring	PM-10	Particulate Matter less than 10 microns in diameter
department	Michigan Department of Environmental Quality	pph	Pound per hour
dscf	Dry standard cubic foot	ppm	Parts per million
dscm	Dry standard cubic meter	ppmv	Parts per million by volume
EPA	United States Environmental Protection Agency	ppmw	Parts per million by weight
EU	Emission Unit	PS	Performance Specification
°F	Degrees Fahrenheit	PSD	Prevention of Significant Deterioration
FG	Flexible Group	psia	Pounds per square inch absolute
GACS	Gallon of Applied Coating Solids	psig	Pounds per square inch gauge
gr	Grains	PeTE	Permanent Total Enclosure
HAP	Hazardous Air Pollutant	PTI	Permit to Install
Hg	Mercury	RACT	Reasonable Available Control Technology
hr	Hour	ROP	Renewable Operating Permit
HP	Horsepower	SC	Special Condition
H_2S	Hydrogen Sulfide	scf	Standard cubic feet
HVLP	High Volume Low Pressure *	sec	Seconds
ID	Identification (Number)	SCR	Selective Catalytic Reduction
IRSL	Initial Risk Screening Level	SO_2	Sulfur Dioxide
ITSL	Initial Threshold Screening Level	SSM	Startup, shutdown, malfunction
LAER	Lowest Achievable Emission Rate	SRN	State Registration Number
lb	Pound	TAC	Toxic Air Contaminant
m	Meter	Temp	Temperature
MACT	Maximum Achievable Control Technology		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
MM	Million		

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

Appendix 2. Schedule of Compliance

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

Appendix 3. Monitoring Requirements

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

Appendix 4. Recordkeeping

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

Appendix 5. Testing Procedures

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

Appendix 6. Permits to Install

The following table lists any Permit to Install and/or Operate, that relate to the identified emission units or flexible groups as of the effective date of this ROP. This includes all Permits to Install and/or Operate that are hereby incorporated into Source-Wide PTI No. MI-PTI-A1641-2017. PTIs issued after the effective date of this ROP, including amendments or modifications, will be identified in Appendix 6 upon renewal.

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
134-99F	This permit covers automotive assembly and painting operations.	FG-Topcoat, FG-Solvents, FG-Repair, FG-Final Repair, FG-Storage Tanks, FG-MACT, FG-HAPs, FG-Facility
74-11	Permit language was modified to reflect change in abatement description.	EU-Guidecoat

The following ROP amendments or modifications were issued after the effective date of ROP No. MI-ROP-A1641-2012.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
NA	201200163/ October 31, 2012	Zip code change from 48921 to 48933.	NA
NA	201300102/ August 20, 2013	Remove emission unit EU-StartUpRoll from the ROP due to USEPA determination letter dated 11/27/2012. Letter provided determination that the roll-test operations at General Motor's Orion Assembly Plant would not be subject to Title I of the Clean Air Act. In a subsequent meeting with members of the Automobile Manufacturer's Alliance on 01/24/2013, AQD agreed that the USEPA determination would be applicable to all OEM Assembly Plant roll-test operations.	EU-StartUpRoll

Appendix 7. Emission Calculations

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in FG-112.

HAP Calculations

HAP emission rate (lb/GACS) for each calendar month *(for use with Special Condition Nos. I.1, I.3)*	=	$\frac{\sum_{1=1}^{zc} L_{ci} D_{ci} H_{ci} + \sum_{j=1}^{y} L_{sj} D_{sj} H_{sj}}{\sum_{i=1}^{zc} L_{ci} V_{ci} T} x(1 - DExN)$
Monthly mass HAP emission rate (tons/month) as determined at the end of each calendar month *(for use with Special Condition Nos. I.2, I.4, I.6, I.7)*	=	$\frac{\left(\sum_{1=1}^{z} L_{ci} D_{ci} H_{ci}\right) - R}{2000} x(1 - DExN)$
Annual mass VOC emission rate (tons/12-month rolling time period) as determined at the end of each calendar month *(for use with Special Condition Nos. I.2, I.4, I.6, I.7)*	=	$\frac{\left(\sum_{b=1}^{12} \sum_{i=1}^{z} L_{ci} D_{ci} H_{ci}\right) - R}{2000} x(1 - DExN)$
HAP emission rate (lb/gal, as applied) for each calendar month *(for use with Special Condition No. I.5)*	=	$\frac{\sum_{i=1}^{zc} L_{ci} D_{ci} H_{ci}}{\sum_{i=1}^{zc} L_{ci}}$

Where:

L_{ci} = Volume of each coating "i" used during the current calendar month, gallons.
D_{ci} = Density of each coating "i" as received, pound/gallon.
V_{ci} = Proportion of solids by formula volume in each coating "i" as received, gallon solids/gallon
H_{ci} = Proportion of HAP by weight in each coating "i" as received, lb HAP/lb.
NOTE: D_{ci} and H_{ci} may be reported separately, but will normally be reported as a single value D_{ci} H_{ci} (pound HAP/gallon).
L_{sj} = Volume of each VOC dilution solvent "j" added to the coating, gallons.
D_{sj} = Density of each VOC dilution solvent "j" added to the coating, pound/gallon.
H_{sj} = Proportion of HAP by weight in dilution solvent "j" as received, lb HAP/lb.
j = An individual dilution solvent used during the calendar month.
i = An individual coating used during the calendar month.
zc = The total number of different coatings "I" used during the calendar month.
y = The total number of different dilution solvents "j".
T = Overall transfer efficiency for all coatings "I", as a fraction (per 40 CFR 393(C)).
b = Current calendar month plus 11 preceding calendar months.
DE = VOC destruction efficiency of add-on emission control device(s), if present.
N = Fraction, by weight, of total VOC emitted by EU-Guidecoat which is captured and enters the add-on emission control device(s), if present, as a fraction.
R = Amount of solvent reclaimed during the calendar month *(this term shall be zero when used with any Special Condition other than Special Condition I.7)*

Appendix 8. Reporting

A. Annual, Semi-annual, and Deviation Certification Reporting

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

B. Other Reporting

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