

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

EFFECTIVE DATE: December 4, 2020

REVISION DATE: August 3, 2022

ISSUED TO

FCA US LLC - Sterling Heights Assembly Plant (SHAP)

State Registration Number (SRN): B7248

LOCATED AT

38111 Van Dyke Ave, Sterling Heights, Macomb County, Michigan 48312-1138

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B7248-2020a

Expiration Date: December 4, 2025

Administratively Complete ROP Renewal Application
Due Between June 4, 2024 and June 4, 2025

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

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-B7248-2020a

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

Michigan Department of Environment, Great Lakes, and Energy

Joyce Zhu, Warren District Supervisor

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AUTHORITY AND ENFORCEABILITY

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

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

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

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

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

A. GENERAL CONDITIONS

Permit Enforceability

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

General Provisions

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

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

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

Monitoring/Recordkeeping

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

Certification & Reporting

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

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

Permit Shield

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

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

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

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

Revisions

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

Reopenings

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

Renewals

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

Stratospheric Ozone Protection

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

Risk Management Plan

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

Emission Trading

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

Permit to Install (PTI)

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

Footnotes:

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

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

B. SOURCE-WIDE CONDITIONS

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

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

C. EMISSION UNIT SPECIAL CONDITIONS

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

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

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-FINAL-REPAIR	Topcoat low-bake repair process consisting of spray stalls equipped with dry filter systems. Rule 336.1287 exempt repair booth.	11/08/1988	FG-AUTOMACT FG-FACILITY-NORTH FG-RULE287(2)(c)
EU-WWASH&GASFIL	Windshield washer fill and Gasoline fill stations. Each vehicle is equipped with an Onboard Re-fueling Vapor Recovery (ORVR) system.	11/08/1998	FG-FACILITY-NORTH
EU-BOILER1	Natural Gas burning boiler with a maximum heat input of 85 million BTU per hour.	11/09/1990	FG-BOILERS FG-FACILITY-NORTH FG-BOILER-MACT-5D
EU-BOILER2	One natural gas fired steam generating boiler rated at 118 million BTU per hour.	11/15/1995	FG-BOILERS FG-FACILITY-NORTH FG-BOILER-MACT-5D
EU-BOILER3	One natural gas fired steam generating boiler rated at 118 million BTU per hour.	11/15/1995	FG-BOILERS FG-FACILITY-NORTH FG-BOILER-MACT-5D
EU-SANDING-NORTH	Color prep and reprocess spot repair operations. Color prep is for powder paint repair and re-process spot repair is for repairs made after topcoat.	08/01/2013	FG-FACILITY-NORTH
EU-SEALERS&ADHESIVES-FBP-NORTH (FRAME, BODY & PAINT; CAB)	Sealers and adhesives used in frame/body and paint are applied to the vehicles (truck cab). These sealers are ones that can generally be subject to the high heat that the vehicle is exposed to in the paint shop ovens. Emissions are released uncontrolled.	08/01/2013	FG-AUTOMACT FG-FACILITY-NORTH
EU-ECOAT-NORTH	Auto bodies (truck cab) are primed in an enclosed electrocoat dip tank system followed by a curing oven. The emissions are controlled by one regenerative thermal oxidizer (one north RTO or RTO-NORTH).	08/01/2013	FG-FACILITY-NORTH FG-CONTROLS-NORTH FG-AUTOMACT FG-CAM
EU-FLASH-PRIMER-NORTH	North paint shop flash primer booth prior to anti-chip powder coating and prior to topcoat.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-TOPCOAT1-NORTH	Topcoat is applied to vehicles (truck cab) automatically and manually in the booths. Vehicles pass through associated curing oven(s). The emissions are controlled by one regenerative thermal oxidizer (one north RTO or RTO-NORTH).	08/01/2013	FG-FACILITY-NORTH FG-CONTROLS-NORTH FG-AUTOMACT FG-CAM
EU-TOPCOAT2-NORTH	Topcoat is applied to vehicles (truck cab) automatically and manually in the booths. Vehicles pass through associated curing oven(s). The emissions are controlled by one regenerative thermal oxidizer (one north RTO or RTO-NORTH).	08/01/2013	FG-FACILITY-NORTH FG-CONTROLS-NORTH FG-AUTOMACT FG-CAM
EU-TOPCOAT3-NORTH	Topcoat is applied to vehicles (truck cab) automatically and manually in the booths. Vehicles pass through associated curing oven(s). The emissions are controlled by one regenerative thermal oxidizer (one north RTO or RTO-NORTH).	08/01/2013	FG-FACILITY-NORTH FG-CONTROLS-NORTH FG-AUTOMACT FG-CAM
EU-TOUCH-UP-NORTH	Blemished areas on vehicles (truck cab) are identified and repaired. This process is performed manually in the north paint shop area (Finesse Deck) and emissions are vented into the in-plant environment.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-FINAL-SEALER	Sealers and adhesives are applied to auto bodies manually and robotically. These sealers are ones that are not exposed to high heat. Also included in this emission unit is windshield and rear window glass installation. The sealer and adhesives are air cured, and the exhaust is vented in the plant.	04/19/1985	FG-FACILITY-NORTH FG-AUTOMACT
EU-PAINT-SPOT-REPAIR-NORTH	The north paint shop spot repair operations consist of stalls (not booths) for either re-routing damaged vehicles back to the topcoat spray booth or for repair of small paint defects or parts may be routed to a spot repair stall. Minor paint repair does not include full application of paint coating on the vehicles, only the impacted panels. Stacks are used for exhaust.	04/19/1985	FG-FACILITY-NORTH FG-AUTOMACT
EU-WIPE-NORTH	Auto bodies (truck cab, north) are manually wiped with solvents wipes during different phases of painting and assembly. The emissions are vented into the in-plant environment or through a stack.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-PURGE-CLEAN-NORTH	Purge, cleanup solvents, and non-production solvents used throughout the north facility (CAB).	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-AST1	6,000-gallon above ground gasoline storage tank.	04/30/1997	FG-FACILITY-NORTH

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-AST2	6,000-gallon above ground diesel storage tank	04/30/1997	FG-FACILITY-NORTH
EU-AST3	8,000-gallon above ground automatic transmission fluid storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST4	8,000-gallon above ground diesel fuel storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST5	8,000-gallon above ground motor oil storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST6	8000-gallon above ground brake fluid storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST7	15,000-gallon above ground automatic transmission fluid storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST8	15,000-gallon above ground antifreeze/coolant storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST9	10,000-gallon above ground gasoline storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST10	10,000-gallon above ground gasoline storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST11	10,000-gallon above ground gasoline storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST12	10,000-gallon above ground diesel fuel storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-AST13	8,000-gallon above ground methanol storage tank.	04/30/1997	FG-FACILITY-NORTH FG-OLD-MACT
EU-AST14	5,000-gallon above ground backup storage tank.	04/30/1997	FG-FACILITY-NORTH
EU-DC1	5000-gallon underground diesel fuel storage tank.	10/30/1996	FG-FACILITY-NORTH
EU-NPS3	6,000-gallon above ground virgin phosphate storage tank.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-NPS4	7,000-gallon above ground virgin E-coat pigment storage tank.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-NPS5	15,000-gallon above ground virgin E-coat resin storage tank.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-NPS7	7,000-gallon above ground waste solvent storage tank.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-BODY-SHOP-NORTH	North body shop including natural gas-combustion (i.e. air make-up units, heaters, etc.) for space or process heating, tooling and equipment to assemble and hem vehicle panels including resistance spot welding, adhesive/sealer application, grinding and other related operations.	08/01/2013	FG-FACILITY-NORTH FG-AUTOMACT
EU-HWG1	A natural gas fired <i>hot water</i> generator with a maximum heat input of 31.5 million BTU per hour.	05/13/2013	FG-FACILITY-NORTH FG-BOILERS FG-BOILER-MACT-5D
EU-HWG2	A natural gas fired <i>hot water</i> generator with a maximum heat input of 31.5 million BTU per hour.	05/13/2013	FG-FACILITY-NORTH FG-BOILERS FG-BOILER-MACT-5D

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-HWG3	A natural gas fired <i>hot water</i> generator with a maximum heat input of 31.5 million BTU per hour.	05/13/2013	FG-FACILITY-NORTH FG-BOILERS FG-BOILER-MACT-5D
EU-HWG4	A natural gas fired <i>hot water</i> generator with a maximum heat input of 18 million BTU per hour.	10/23/2017	FG-NG-SOUTH FG-BOILER-MACT-5D FG-FACILITY-SOUTH
EU-HWG5	A natural gas fired <i>hot water</i> generator with a maximum heat input of 18 million BTU per hour.	10/23/2017	FG-NG-SOUTH FG-BOILER-MACT-5D FG-FACILITY-SOUTH
EU-HWG6	A natural gas fired <i>hot water</i> generator with a maximum heat input of 18 million BTU per hour.	10/23/2017	FG-NG-SOUTH FG-BOILER-MACT-5D FG-FACILITY-SOUTH
EU-ENG-PH1	<p>FG-ENG-FIREPUMP: 40 CFR Part 60, Subpart III – New Source Performance Standards, for, new emergency, compression ignition (CI) reciprocating internal combustion engines (RICE), that have a maximum site rating of less than 500 brake hp. The emergency engines are for the fire pumps located in the pump house. The two engines are certified.</p> <p>294 < 500 HP, diesel fueled, emergency reciprocating internal combustion engine (CI RICE, Em).</p>	04/24/2002	FG-ENG-FIREPUMP
EU-ENG-PH2	<p>FG-ENG-FIREPUMP: 40 CFR Part 60, Subpart III – New Source Performance Standards, for, new emergency, compression ignition (CI) reciprocating internal combustion engines (RICE), that have a maximum site rating of less than 500 brake hp. The emergency engines are for the fire pumps located in the pump house. The two engines are certified.</p> <p>335 < 500 HP, diesel fueled, emergency reciprocating internal combustion engine (CI RICE, Em).</p>	04/24/2002	FG-ENG-FIREPUMP
EU-ENG-DATACTR	4,091 > 500 HP, diesel fueled, emergency reciprocating internal combustion engine (CI RICE, Em). (Built date: 12/05/2006)	09/02/2007	FG-RULE 290 FG-NSPS IIII EMERGENCY PRE-2007 < 10 I/CYL FG-ENG-DATACTR
EU-ENG-GENASSY	2,345 > 500 HP, diesel fueled, emergency reciprocating internal combustion engine (CI RICE, Em).	01/01/1996	FG-RULE 290 FG-MACT-ZZZZ-EXISTING- EMERGENCY CI > 500 HP
EU-ENG-NORTH-PSHOP1	383 HP, natural gas fueled, emergency reciprocating internal combustion engine. (383 HP, certified, NG SI RICE NSPS 4J, EM).	05/01/2013	FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-ENG-NORTH-BSHOP	335 HP, natural gas fueled, emergency reciprocating internal combustion engine. (335 HP, certified, NG SI RICE NSPS 4J, EM).	05/01/2013	FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP
EU-ENG-PSHOP-NC-701HP	701 HP, natural gas fueled, emergency reciprocating internal combustion engine. (701 > 500 HP, 5/1/13, SI RICE NSPS 4J, non-certified, every 8,760 or triennial (1/3 years), whichever occurs first, operating hours emissions testing).	05/01/2013	FG-NSPS JJJJ EMERGENCY > 500 HP
EU-ENG-GEN1-SOUTH	Emergency engine subject to 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. A new/reconstructed emergency engine greater than 500 HP constructed on or after January 1, 2009. (SI RICE NSPS 4J, > 500 HP, EM).	01/19/2018	FG-NSPS JJJJ EMERGENCY > 500 HP FG-FACILITY-SOUTH
EU-ENG-GEN2-SOUTH	Emergency engine subject to 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. A new/reconstructed emergency engine greater than 500 HP constructed on or after January 1, 2009. (SI RICE NSPS 4J, > 500 HP, EM).	01/19/2018	FG-NSPS JJJJ EMERGENCY > 500 HP FG-FACILITY-SOUTH
EU-PHOSPHATE-SOUTH	A series of dip tanks and rinse tanks for the surface treatment of light duty truck boxes at the south paint shop. None of the materials used in EU-PHOSPHATE-SOUTH (BOX) contains VOC or HAP that are emitted from the process.	12/27/2017	FG-FACILITY-SOUTH
EU-E-COAT-SOUTH	An electrodeposition coating process (E-coat) consisting of a series of dip tanks, rinse tanks, followed by a curing oven and a sanding booth. Small amounts of flash (spot) prime may be used to repair defects in the E-coat in the sand booth. Emissions from the E-coat process are directed to the oven. VOC emissions from the oven are controlled by a south Regenerative Thermal Oxidizer (RTO-SOUTH or south RTO).	12/17/2017	FG-CONTROL-SOUTH FG-CAM FG-AUTOMACT FG-FACILITY-SOUTH FG-RTO-SOUTH&POWDER-OVEN-PM
EU-SEALER-SOUTH	Manual and robotic applicators are used to apply seam sealer, deadener and underbody sealer to light duty truck boxes. A portion of the sealers will be cured during baking in the sealer oven.	12/12/2017	FG-AUTOMACT FG-FACILITY-SOUTH

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-POWDERCOAT-SOUTH	A powder anti-chip coating which is electrostatically applied. The spray booth also includes the application of a <i>powder basecoat for tu-tone truck boxes</i> . The powder spray application is controlled by a particulate filtration system which is vented inside the plant.	12/12/2017	FG-AUTOMACT FG-FACILITY-SOUTH FG-RTO-SOUTH&POWDER-OVEN-PM
EU-TOPCOAT1-SOUTH	At south paint shop, a color preparation sanding booth (topcoat sand), followed by two (2) identical and parallel topcoat lines (TOPCOAT1 and TOPCOAT2), each consisting of: A water-borne basecoat application followed by a solvent borne clearcoat. The paint applications will be performed by robotics with bell applicators (except in emergency back-up situations). A heated flash zone separates the basecoat and clearcoat sections. Once clearcoat application is complete, the light duty truck box proceeds to the main bake oven. VOC emissions from the water-borne basecoat booths, the heated flash zone, the clearcoat spray booths and the topcoat cure oven are controlled by a south Regenerative Thermal Oxidizer (RTO-SOUTH).	12/12/2017	FG-TOPCOAT-SOUTH FG-AUTOMACT FG-FACILITY-SOUTH FG-CONTROL-SOUTH FG-CAM FG-RTO-SOUTH&POWDER-OVEN-PM
EU-TOPCOAT2-SOUTH	At south paint shop, a color preparation sanding booth (topcoat sand), followed by two (2) identical and parallel topcoat lines (TOPCOAT1 and TOPCOAT2), each consisting of: A water-borne basecoat application followed by a solvent borne clearcoat. The paint applications will be performed by robotics with bell applicators (except in emergency back-up situations). A heated flash zone separates the basecoat and clearcoat sections. Once clearcoat application is complete, the light duty truck box proceeds to the main bake oven. VOC emissions from the water-borne basecoat booths, the heated flash zone, the clearcoat spray booths and the topcoat cure oven are controlled by a south Regenerative Thermal Oxidizer (RTO-SOUTH).	12/12/2017	FG-TOPCOAT-SOUTH FG-AUTOMACT FG-FACILITY-SOUTH FG-CONTROL-SOUTH FG-CAM FG-RTO-SOUTH&POWDER-OVEN-PM
EU-MISC-SOLVENTS-SOUTH	Various solvent body wipes, cleaning solvents and purge solvents used in the manufacturing of light duty truck boxes. VOC emissions from the purge solvents used within topcoat booths are controlled by the RTO.	12/12/2017	FG-CONTROL-SOUTH FG-CAM FG-AUTOMACT FG-FACILITY-SOUTH FG-RTO-SOUTH&POWDER-OVEN-PM

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-SPOT-REPAIR1-SOUTH	A dry filter spot repair booth. The booths are equipped with air atomized applicators or equivalent technology with comparable or better transfer efficiency.	08/01/2018, 02/11/2022	FG-REPAIR-SOUTH FG-AUTOMACT FG-CONTROL-SOUTH FG-FACILITY-SOUTH
EU-SPOT-REPAIR2-SOUTH	A dry filter spot repair booth. The booths are equipped with air atomized applicators or equivalent technology with comparable or better transfer efficiency.	08/01/2018, 02/11/2022	FG-REPAIR-SOUTH FG-AUTOMACT FG-CONTROL-SOUTH FG-FACILITY-SOUTH
HEAVY-REPAIR-SOUTH	A dry filter repair booth used for sanding, wiping and prep work prior to painting. No painting occurs in this area.	02/19/2018	FG-REPAIR-SOUTH FG-AUTOMACT FG-CONTROL-SOUTH FG-FACILITY-SOUTH
EU-AST-PURGE SOUTH	An above ground 10,000-gallon-or-less waste purge solvent storage tank.	12/12/2017	FG-AUTOMACT FG-FACILITY-SOUTH
EU-SOBL-APPLICATION	Multiple bays in which bedliner materials will be robotically sprayed onto fully assembled and painted trucks from the main assembly plant Spray-on Bedliner (SOBL)). Raw materials include cleaning solvents, a bonding agent, and a two (2) part polyurethane resin. This equipment is located at 7566 Metropolitan Parkway, directly across the street from the South Paint Shop (BOX) at the main assembly plant.	02/12/2018	FG-AUTOMACT FG-SOBL
EU-SOBL-NAT-GAS	Natural gas-fired space heating equipment to provide comfort and process heating for the spray-on bedliner (SOBL) facility. The equipment has a total combined maximum heat input capacity of 23.3 MMBtu/hr. This equipment is located at 7566 Metropolitan Parkway, directly across the street from the South Paint Shop at the main assembly plant.	02/12/2018	FG-SOBL
EU-WAREHOUSE-NAT-GAS	Natural gas-fired space heating equipment to provide comfort heating at a storage warehouse, which is located across 17 Mile Road, approximately one-half mile north of the northern boundary of the main assembly plant. The equipment has a total combined maximum heat input capacity of 6.5 million BTU per hour. The heaters are equipped with low NOx burners	02/01/2018	NA

EU-WWASH&GASFIL EMISSION UNIT CONDITIONS

DESCRIPTION

EU-WWASH&GASFIL: Windshield washer fill and Gasoline fill stations.

Flexible Group ID: FG-FACILITY-NORTH

POLLUTION CONTROL EQUIPMENT

Onboard Re-fueling Vapor Recovery (ORVR) system

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not add fuel to any vehicle without an *Onboard Re-fueling Vapor Recovery (ORVR)* 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 ($\geq 95\%$ DE).² **(R 336.1205, R 336.1702(a), R 336.1901 and R 336.1910)**

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))**

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

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-SANDING-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-SANDING-NORTH (CAB): Color prep and reprocess spot repair operations at north paint shop. Color prep is for powder paint repair and re-process spot repair is for repairs made after topcoat.

Flexible Group ID: FG-FACILITY-NORTH

POLLUTION CONTROL EQUIPMENT

Dry Filter System

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall operate the color prep tack-off booth, main color spot process tack-off booth, and the rerun booth with their respective **dry filter** particulate controls installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI. 2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-CLRPREP (Color Prep)	61 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. SVST-RPRCS (Reprocess)	36 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-SEALERS&ADHESIVES-FBP-NORTH (FRAME, BODY & PAINT)
EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-SEALERS&ADHESIVES-FBP-NORTH (FRAME, BODY & PAINT; CAB): Sealers and adhesives used in frame/body and paint are applied to the vehicles (truck cab). These sealers are ones that can generally be subject to the high heat that the vehicle is exposed to in the paint shop ovens. The uncontrolled emissions are released to in-plant environment.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content of each sealer and adhesive, as applied, shall be determined using federal Reference Test Method 24 (RM 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 AQD District Supervisor, the VOC content of each sealer and adhesive shall be verified by RM 24 testing at owner's expense.² (R 336.1702(a), R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-E-COAT-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-E-COAT-NORTH (CAB): Auto bodies (truck cab) are primed in an enclosed electrocoat (e-coat) dip tank system followed by a curing oven.

Flexible Group ID: FG-FACILITY-NORTH, FG-CONTROLS-NORTH, FG-AUTOMACT and FG-CAM

POLLUTION CONTROL EQUIPMENT

One regenerative thermal oxidizer (one north RTO or RTO-NORTH (truck cab)) controlling both the e-coat tank and oven.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-E-COAT-NORTH (CAB) unless the north RTO (or RTO-NORTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910)**

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 (EU-E-COAT-NORTH (CAB)), shall be determined using federal Reference Test Method 24 (RM 24). Alternatively, the VOC content, water content and density of the subject materials 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 AQD 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), R 336.2003, R 336.2004)**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-57 (RTO-NORTH)	111 ²	120 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-FLASH-PRIMER-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-FLASH-PRIMER-NORTH (CAB): North paint shop flash primer booth prior to anti-chip powder coating and prior to topcoat.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

Dry Filter particulate control system.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall operate EU-FLASH-PRIMER-NORTH (CAB) with the **dry filter** particulate controls installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI.2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)

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 flash primer material as applied and as received, shall be determined using federal Reference Test Method 24 (RM 24) or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any material shall be verified using federal Reference Test Method 24.² (**R 336.1702(a), R 336.2003, R 336.2004**)

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. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (**R 336.1213(3)(c)(i)**)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-FLASHPRIMER (CAB)	34 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-TOPCOAT1-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-TOPCOAT1-NORTH (CAB): Topcoat is applied to vehicles (truck cab) automatically and manually in the booths. Vehicles pass through associated curing oven(s).

Flexible Group ID: FG-FACILITY-NORTH, FG-CONTROLS-NORTH, FG-AUTOMACT and FG-CAM

POLLUTION CONTROL EQUIPMENT

1. A water-wash system
2. One regenerative thermal oxidizer (one north RTO or RTO-NORTH (truck cab)).

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the spray booth portions of EU-TOPCOAT1-NORTH (CAB) unless the **water-wash** particulate controls are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the **water wash** particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI.2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)
2. The permittee shall not operate the oven portion of EU-TOPCOAT1-NORTH (CAB) unless the north RTO (or RTO-NORTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)
3. The permittee shall not operate the basecoat heated flash zone and the clearcoat automatic sections of EU-TOPCOAT1-NORTH (CAB) unless the north RTO (or RTO-NORTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)

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 any coating or material as applied or as received shall be determined using federal Reference Test Method 24 (RM 24) and formulation data as specified in the USEPA "Protocol for Determining the Daily Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. Upon request of the AQD District Supervisor, the analytical VOC content, as received, of each non-waterborne coating shall be verified by RM 24 testing at owner's expense.² (R 336.1702(a), R 336.2003, R 336.2004, 40 CFR Part 60, Subpart MM)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-1 (basecoat)	53 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. SVST-57 (north RTO)	111 ²	120 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-TOPCOAT2-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-TOPCOAT2-NORTH (CAB): Topcoat is applied to vehicles (truck cab) automatically and manually in booths. Vehicles pass through associated curing oven(s).

Flexible Group ID: FG-FACILITY-NORTH, FG-CONTROLS-NORTH, FG-AUTOMACT and FG-CAM

POLLUTION CONTROL EQUIPMENT

1. A water-wash system
2. One regenerative thermal oxidizer (one north RTO or RTO-NORTH [truck cab]).

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the spray booth portions of EU-TOPCOAT2-NORTH (CAB) unless the **water wash** particulate controls are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the **water wash** particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI.2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)
2. The permittee shall not operate the oven portion of EU-TOPCOAT2-NORTH (CAB) unless the north RTO (or RTO-NORTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO (or RTO-NORTH) at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)
3. The permittee shall not operate the basecoat heated flash zone and the clearcoat automatic sections of EU-TOPCOAT2-NORTH (CAB) unless the north RTO is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)

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 any coating or material as applied or as received shall be determined using federal Reference Test Method 24 (RM 24) and formulation data as specified in the USEPA "Protocol for Determining the Daily Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. Upon request of the AQD District Supervisor, the analytical VOC content, as received, of each non-waterborne coating shall be verified by testing at owner's expense.² (R 336.1702(a), R 336.2003, R 336.2004, 40 CFR 60 Subpart MM)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-4 (basecoat)	49 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. SVST-57 (north RTO)	111 ²	120 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EU-TOPCOAT3-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-TOPCOAT3-NORTH (CAB): Topcoat is applied to vehicles (truck cab) automatically and manually in booths. Vehicles pass through associated curing oven(s).

Flexible Group ID: FG-FACILITY-NORTH, FG-CONTROLS-NORTH, FG-AUTOMACT and FG-CAM

POLLUTION CONTROL EQUIPMENT

1. A water-wash system
2. One regenerative thermal oxidizer (one north RTO or RTO-NORTH [truck cab]).

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the spray booth portions of EU-TOPCOAT3-NORTH (CAB) unless the **water wash** particulate controls are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the **water wash** particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI.2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)
2. The permittee shall not operate the oven portion EU-TOPCOAT3-NORTH (CAB) unless the north RTO (or RTO-NORTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)
3. The permittee shall not operate the basecoat heated flash zone and the clearcoat automatic sections of EU-TOPCOAT3-NORTH (CAB) unless the north RTO is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the north RTO at a minimum average temperature of **1,350°F** ($\geq 1,350^{\circ}\text{F}$) based upon a three-hour average or at the temperature during the most recent control device performance test which demonstrated compliance with a minimum of 95% destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.1910**)

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 any coating or material as applied or as received shall be determined using federal Reference Test Method 24 (RM 24) and formulation data as specified in the USEPA "Protocol for Determining the Daily Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. Upon request of the AQD District Supervisor, the analytical VOC content, as received, of each non-waterborne coating shall be verified by RM 24 testing at owner's expense.² (R 336.1702(a), R 336.2003, R 336.2004, 40 CFR 60 Subpart MM)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-7 (basecoat)	49 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
2. SVST-57 (north RTO)	111 ²	120 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-TOUCH-UP-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-TOUCH-UP-NORTH (CAB): Blemished areas on vehicles (truck cab) are identified and repaired. This process is performed manually in the north paint shop area (Finesse Deck) and emissions are vented into the in-plant environment.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(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 (RM 24). Alternatively, 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 336.2003, R 336.2004, 40 CFR Part 60, Subpart MM)**

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. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-PAINT-SPOT-REPAIR-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-PAINT-SPOT-REPAIR-NORTH (CAB): The north paint shop spot repair operations consist of stalls for either re-routing damaged vehicles back to the topcoat spray booth or for repair of small paint defects or parts may be routed to a spot repair stall. Minor paint repair does not include full application of paint coating on the vehicles, only the impacted panels. Stacks are used for exhaust.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

Dry Filter System

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall operate EU-PAINT-SPOT-REPAIR-NORTH (CAB) with the **dry filter** particulate controls installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to FG-FACILITY-NORTH, SC VI.2.² (**R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)**)

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 spot repair material as applied and as received, shall be determined using federal Reference Test Method 24 (RM 24). Alternatively, 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 336.2003, R 336.2004, 40 CFR Part 60, Subpart MM**)

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVST-PNTSPTRPR	68 ²	115 ²	R336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-WIPE-NORTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-WIPE-NORTH (CAB): Auto bodies (truck cab, north) are manually wiped with solvents wipes during different phases of painting and assembly. The emissions are vented into the in-plant environment or through a stack.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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 (RM 24) or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any material shall be verified using federal Reference Test Method 24.² **(R 336.1702(a), R 336.2003, R 336.2004)**

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. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-PURGE-CLEAN-NORTH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-PURGE-CLEAN-NORTH (CAB): Purge, cleanup solvents, and non-production solvents used throughout the north facility (CAB).

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
VOC	223.2 ² tpy	12-month rolling time period as determined at the end of each calendar month	EU-PURGE CLEAN-NORTH (CAB)	SC VI.1	R 336.1225 R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(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 (RM 24) or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer’s formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any material shall be verified using federal Reference Test Method 24.² (R 336.1702(a), R 336.2003, R 336.2004)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept.²
 - a. For each solvent used in EU-PURGE-CLEAN-NORTH (CAB)²:

- i. Solvent identification;
 - ii. Solvent VOC content;
 - iii. Solvent usage; and,
 - iv. Solvent reclaim.
- b. Calculations showing the EU-PURGE-CLEAN-NORTH (CAB) monthly and annual mass VOC emission rates, in tons per month (tpm) and tons per 12-month rolling time period (tpy), as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used. Prior to the initial testing, for each controlled section, the design combined capture and control efficiency may be used. Thereafter, values no greater than the most recently tested or determined values shall be used.²

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))

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-PHOSPHATE-SOUTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-PHOSPHATE-SOUTH (BOX): A series of dip tanks and rinses for the surface treatment of light duty truck boxes at the south paint shop. None of the materials used in EU-PHOSPHATE-SOUTH (BOX) contain VOC or HAP that are emitted from the process.

Flexible Group ID: FG-FACILITY-SOUTH

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. **None** of the materials used in EU-PHOSPHATE-SOUTH (BOX) shall contain any VOC or HAP that are emitted from the process.² (R 336.1225, R 336.1702)

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. The permittee shall keep a record acceptable to the district supervisor, demonstrating that any VOC and/or HAP materials contained in the EU-PHOSPHATE-SOUTH (BOX) materials will not be emitted at the representative operating conditions.² (R 336.1225, R 336.1702)

VII. REPORTING

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

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

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:

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-E-COAT-SOUTH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-E-COAT-SOUTH (BOX): An electrodeposition coating process (E-coat) consisting of a series of dip tanks, rinses, followed by a curing oven and a sanding booth. Small amounts of flash (spot) prime may be used to repair defects in the E-coat in the sand booth. Emissions from the E-coat tanks are directed to the oven. VOC emissions from the oven are controlled by a Regenerative Thermal Oxidizer (RTO-SOUTH or south RTO).

Flexible Group ID: FG-CONTROL-SOUTH, FG-CAM, FG-AUTOMACT, FG-FACILITY-SOUTH and FG-RTO-SOUTH&POWDER-OVEN-PM

POLLUTION CONTROL EQUIPMENT

1. RTO-SOUTH (or south RTO) for VOC control from e-coat tank and oven.
2. Dry filter system for particulate control from the e-coat sanding booth.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. VOC	0.04 ² lb/GACS ⁹	Calendar month average	EU-E-COAT-SOUTH (BOX)	SC VI.4	R 336.1205 R 336.1702(a) R 336.2810 40 CFR Part 60, Subpart MM
2. VOC, Acetone, Methyl Acetate, and Tertiary Butyl Acetate (TBA) combined	2.32 ² tpy	12-month rolling time period as determined at the end of each calendar month	EU-E-COAT-SOUTH (BOX)	SC VI.4	R 336.1205 R 336.1224 R 336.1702(a) R 336.2810

⁹ lb/GACS = pounds of VOC per gallon of applied coating solids. Compliance with this PSD BACT limit constitutes compliance with the NSPS MM for e-coat VOC emissions limit (1.34 lbs VOC/GACS). PSD BACT is more stringent standard than RACT Rule 336.1610 (1.2 pounds of VOC per gallon of coating).

II. MATERIAL LIMIT(S)

1. **None** of the coatings used in EU-E-COAT-SOUTH (BOX) shall contain any *lead or lead compounds*.² (**R 336.1225, 40 CFR 52.21 (d)**)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC, acetone, methyl acetate and TBA containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² (**R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810**)
2. The permittee shall operate the electrocoat (e-coat) dip tank such that *adequate positive flow of air* into the electrocoat dip tank occurs whenever EU-E-COAT-SOUTH (BOX) is in operation. Adequate positive flow of air into the dip tank shall be demonstrated according to a method acceptable to the AQD District Supervisor. In addition, the permittee shall keep all access doors and windows on the electrocoat dip tank closed whenever

the electrocoat process is in operation.² (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-E-COAT-SOUTH (BOX) unless the south RTO (or RTO-SOUTH) is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the south RTO at a minimum average temperature of **1,500°F** ($\geq 1,500^{\circ}\text{F}$) or at the temperature established during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1500°F (or at the most recent acceptable temperature established during the most recent performance test) based upon a three-hour (3-hr) rolling average may be used provided DE $\geq 95\%$.² (R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810, 40 CFR 60.390)
2. The permittee shall not operate the E-coat sanding booth portion of EU-E-COAT-SOUTH (BOX) unless the **dry filter** particulate control system is installed maintained and operated in a satisfactory manner.² (R 336.1224, R 336.1910)

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 (RM 24). Alternatively, the VOC content, water content and density of the subject materials 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 AQD 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), R 336.2003, R 336.2004, R 336.2810)
2. Within **365** days of saleable vehicle production and at least once every **five (5) years** thereafter, unless the permittee maintains a yearly demonstration, acceptable to AQD, that the most recent acceptable test remains valid and representative, the permittee shall verify the EU-E-COAT-SOUTH (BOX) dip tank and oven control device destruction efficiency (DE), and verify positive inward flow of air into the enclosure(s), by testing at owner's expense, in accordance with Department requirements. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission limits includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.² (R 336.1224, R 336.1702(a), R 336.2001, R 336.2810)

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 complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2810)
2. The permittee shall monitor and record the temperature in the EU-E-COAT-SOUTH (BOX) / south RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 60.390)
3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and material, including the weight percent of each component used in EU-E-COAT-SOUTH (BOX). The data

may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be made available to the Department upon request.² (R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)

4. The permittee shall keep production, usage, VOC, solids content, and emission calculation records on a **monthly basis** for each coating or material used in EU-E-COAT-SOUTH (BOX). The records shall be kept in a format acceptable to the AQD District Supervisor, Air Quality Division, and as a minimum, shall indicate the following:²
 - a. The monthly usage rate of each material or coating (in gallons - with water).
 - b. For each coating or material:
 - i. The pounds of VOC per gallon as applied (with water).
 - ii. The solids volume fraction.
 - c. The calculated average monthly VOC emission rate in pounds per gallon of applied coating solids.
 - d. The calculated VOC, acetone, methyl acetate, and TBA combined emission rate in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² (R 336.1205, R 336.1224, R 336.1702(a), R 336.2810)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO (south)	98.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
2. SV-SPOT PRIME (flash prime booth)	29.0 ²	74.0 ²	R 336.1225 R 336.2803 R 336.2804
3. The permittee shall discharge the exhaust gases from the E-coat sanding booth portion of EU-E-COAT-SOUTH (BOX) into the general in-plant environment. ² (R 336.1225, R 336.2803, R 336.2804)			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII (NESHAP / MACT A & 4I), as they apply to EU-E-COAT-SOUTH (BOX).² **(40 CFR Part 63, Subparts A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM (NSPS A & MM), as they apply to EU-E-COAT-SOUTH (BOX).² **(40 CFR 60.390)**

Footnotes:

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

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

**EU-SEALER-SOUTH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-SEALER-SOUTH (BOX): Manual and robotic applicators are used to apply seam sealer, deadener and underbody sealer to light duty truck boxes. A portion of the sealers will be cured during baking in the sealer oven.

Flexible Group ID: FG-AUTOMACT and FG-FACILITY-SOUTH

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. VOC	0.25 ² pounds of VOC per gallon (minus water), as applied	Instantaneous	EU-SEALER- SOUTH (BOX)	SC VI.3	R 336.1205 R 336.1224 R 336.1702(a) R 336.2810
2. VOC, Acetone, Methyl Acetate, and TBA combined	17.3 ² tpy	12-month rolling time period as determined at the end of each calendar month	EU-SEALER- SOUTH (BOX)	SC VI.3	R 336.1205 R 336.1224 R 336.1702(a) R 336.2810

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC, acetone, methyl acetate and TBA containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² **(R 336.1205, R 336.1224, R 336.1702(a), R 336.2810)**

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 any coating or material, as applied and as received shall be determined using federal Reference Test Method 24 (RM 24). Upon prior approval of the AQD District Supervisor, the VOC content of any coating may alternatively be determined from manufacturer's formulation data.² **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

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 complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² (R 336.1205, R 336.1224, R 336.1702, R 336.2810)
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and material, including the weight percent of each component used in EU-SEALER-SOUTH (BOX). The data may consist of Material Safety Data Sheets, manufacturer’s formulation data, or both. The data shall be made available to the Department upon request² (R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)
3. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EU-SEALER-SOUTH (BOX). The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:²
 - a. A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b. The monthly usage rate of each material.
 - c. The amount of material reclaimed where applicable.
 - d. The VOC, acetone, methyl acetate and TBA combined emission calculations determining the total VOC mass emissions in tons per month and tons per year based on a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request.² (R 336.1205, R 336.1224, R 336.1702(a), R 336.2810)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-SEALER-OVEN	40.0 ²	60.0 ²	R 336.1225 R 336.2803 R 336.2804

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and IIII (NESHAP / MACT A & 4I), as they apply to EU-SEALER-SOUTH (BOX).² **(40 CFR Part 63 Subparts A and IIII)**

Footnotes:

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

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

EU-POWDERCOAT-SOUTH EMISSION UNIT CONDITIONS

DESCRIPTION

EU-POWDERCOAT-SOUTH (BOX): A powder anti-chip coating which is electrostatically applied. The spray booth also includes the application of a powder basecoat for tu-tone truck boxes. The powder spray application is controlled by a particulate filtration system which is vented inside the plant.

Flexible Group ID: FG-AUTOMACT, FG-RTO-SOUTH&POWDER-OVEN-PM & FG-FACILITY-SOUTH

POLLUTION CONTROL EQUIPMENT

Particulate filtration system

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-POWDERCOAT-SOUTH (BOX) unless the **particulate filtration system** is installed, maintained and operated in satisfactory manner. Satisfactory operation of particulate filtration system includes exhausting the particulate filtration system within the in-plant environment.² **(R 336.1224, R 336.1702(a), R 336.1910, 40 CFR 60.390)**

V. TESTING/SAMPLING

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

1. The permittee shall verify the presence of visible emissions by taking six-minute visible emission readings for EU-POWDERCOAT-SOUTH (BOX) (powder oven stacks) a minimum of once per calendar week. If there is no opacity recorded for four (4) consecutive readings (4 weeks), the permittee may then conduct opacity readings on a monthly basis. However, if any opacity is observed the readings will then revert to weekly. Either a certified or non-certified reader shall take each visible emission reading during routine operating conditions. If the permittee observes any visible emissions, the permittee shall immediately implement the following procedures:²
 - a. The permittee shall perform the six-minute visible emission readings at least once every 30 minutes until emissions are no longer visible or until emissions have been observed for more than two hours.
 - b. If visible emissions have been observed for more than two hours, a certified reader shall determine the opacity using Federal Reference Test Method 9 (40 CFR Part 60, Appendix A).
 - c. If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions. **(R 336.1301, R 336.1303)**

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-POWDERCOAT-CURE-OVEN-1	39.4 ²	60.5 ²	R 336.1225 R 336.2803 R 336.2804
2. SV-POWDERCOAT-CURE-OVEN-2	39.4 ²	60.5 ²	R 336.1225 R 336.2803 R 336.2804
3. There shall be no external exhaust from EU-POWDERCOAT-SOUTH (BOX) other than the cure ovens listed above. ² (R 336.1225, R 336.2803, R 336.2804)			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII (NESHAP / MACT A & 4I), as they apply to EU-POWDERCOAT-SOUTH (BOX).² (40 CFR Part 63, Subparts A and Subpart IIII)
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM (NSPS A & MM), as they apply to EU-POWDERCOAT-SOUTH (BOX).² (40 CFR 60.390)

Footnotes:

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

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

**EU-MISC-SOLVENTS-SOUTH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-MISC-SOLVENTS-SOUTH (BOX): Various solvent body wipes, cleaning solvents and purge solvents used in the manufacturing of light duty truck boxes. VOC emissions from the purge solvents used within topcoat booths are controlled by the RTO.

Flexible Group ID: FG-CONTROL-SOUTH, FG-CAM, FG-AUTOMACT, FG-RTO-SOUTH&POWDER-OVEN-PM and FG-FACILITY-SOUTH

POLLUTION CONTROL EQUIPMENT

1. South RTO (BOX) or RTO-SOUTH (BOX)
2. Purge solvent recovery system

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. VOC, Acetone, Methyl Acetate, and TBA combined	82.6 ² tpy	12-month rolling time period as determined at the end of each calendar month	EU-MISC-SOLVENTS-SOUTH (BOX)	SC VI.2	R 336.1205 R 336.1224 R 336.1702(a) R 336.2810
2. VOC	0.2 ² tons per 1000 saleable truck boxes ^β	12-month rolling time period as determined at the end of each calendar month	EU-MISC-SOLVENTS-SOUTH (BOX)	SC VI.2	R 336.1205 R 336.1702(a) R 336.2810

^β Saleable truck boxes means the number of saleable vehicles out of final assembly.²

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC, acetone, methyl acetate and TBA containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The applicant shall install, maintain, and operate a **purge solvent recovery system** on the clearcoat automatic robots within each of the two topcoat booths.² (R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)
2. The permittee shall not operate topcoat purging operations portion of EU-MISC-SOLVENTS-SOUTH (BOX) unless the south RTO or RTO-SOUTH is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the south RTO at a minimum average temperature of **1,500°F** (≥ 1,500°F) or at the temperature established during the most

recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency ($\geq 95\%$ DE), based upon a three-hour (3-hr) average, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1500°F (or at the most recent acceptable temperature established during the most recent performance test) based upon a three-hour rolling (3-hr) average may be used provided $DE \geq 95\%$.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, 40 CFR 60.390)**

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 any coating or material, as applied and as received shall be determined using federal Reference Test Method 24 (RM 24). Upon prior approval of the AQD District Supervisor, the VOC content of any coating may alternatively be determined from manufacturer's formulation data.² **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

VI. MONITORING/RECORDKEEPING

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

1. The applicant shall maintain a current listing from the manufacturer of the chemical composition of each coating and material including the weight percent of each component used in EU-MISC-SOLVENTS-SOUTH (BOX). The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be kept on file and made available to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804)**
2. The permittee shall monitor and record the temperature in the EU-MISC-SOLVENTS-SOUTH (BOX) Thermal Oxidizer (south RTO) on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² **R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 60.390)**
3. The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EU-MISC-SOLVENTS-SOUTH (BOX):²
 - a. A record of the number of saleable truck boxes.
 - b. For each material used:
 - i. A description of the material, its purpose and its VOC, acetone, methyl acetate and TBA content in pounds per gallon.
 - ii. The total amount in gallons used and the amount used in the automatic zones of EU-MISC-SOLVENTS SOUTH (BOX).
 - iii. The amount in gallons reclaimed where applicable.
 - c. VOC, acetone, methyl acetate and TBA combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month. In performing these calculations, the actual tested control efficiency over FG-TOPCOAT-SOUTH (BOX), by weight, shall be applied to the materials used in the controlled automatic zones.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² **(R 336.1205, R 336.1224, R 336.1702(a), and R 336.2810)**

See Appendix 3

VII. REPORTING

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

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII (NEASHAP / MACT A & 4I), as they apply to EU-MISC-SOLVENTS-SOUTH (BOX).² **(40 CFR Part 63, Subparts A and Subpart IIII)**

Footnotes:

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

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

EU-WAREHOUSE-NAT-GAS EMISSION UNIT CONDITIONS

DESCRIPTION

EU-WAREHOUSE-NAT-GAS: Natural gas-fired space heating equipment to provide comfort heating at a storage warehouse, which is located across 17 Mile Road, approximately one-half mile north of the northern boundary of the main assembly plant. The equipment has a total combined maximum heat input capacity of 6.5 million BTU per hour. The heaters are equipped with low NOx burners.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all natural-gas-fired combustion equipment

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn **only** pipeline quality sweet natural gas in EU-WAREHOUSE-NAT-GAS.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)
2. The total natural gas usage for EU-WAREHOUSE-NAT-GAS shall not exceed **45** million SCF per year on a 12-month rolling time period basis as determined at the end of each calendar month.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-WAREHOUSE-NAT-GAS unless the **Low NOx burners** are installed, maintained and operated in a satisfactory manner.² (R 336.1205, R 336.2810)

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)
2. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million standard cubic feet for EU-WAREHOUSE-NAT-GAS. The permittee shall keep all records on file and make them available to the Department upon request.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-AST13
EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-AST13: 8,000-gallon above ground methanol storage tank

Flexible Group ID: FG-FACILITY-NORTH and FG-OLD-MACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

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 (NESHAP / OLD MACT 4E) for Organic Liquid Distribution (OLD) (non-gasoline) by the initial compliance date.² **(40 CFR Part 63, Subpart A and Subpart EEEE)**

Footnotes:

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

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

EU-NPS4 EMISSION UNIT CONDITIONS

DESCRIPTION

EU-NPS4: 7,000-gallon above ground **virgin e-coat pigment** storage tank

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

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 (NESHAP / MACT A & 4I) for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date.² **(40 CFR Part 63, Subpart A and Subpart IIII)**

Footnotes:

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

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

EU-NPS5 EMISSION UNIT CONDITIONS

DESCRIPTION

EU-NPS5: 15,000-gallon above ground **virgin e-coat resin** storage tank.

Flexible Group ID: FG-FACILITY-NORTH, FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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 (NESHAP / MACT A & 4I) for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date.² **(40 CFR Part 63, Subpart A and Subpart IIII)**

Footnotes:

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

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

**EU-BODY-SHOP-NORTH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-BODY-SHOP-NORTH (CAB): North body shop including natural gas-combustion (i.e. air make-up units, heaters, etc.) for space or process heating, tooling and equipment to assemble and hem vehicle panels including resistance spot welding, adhesive/sealer application, grinding and other related operations.

Flexible Group ID: FG-FACILITY-NORTH and FG-AUTOMACT

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
Natural gas ^β	718 ² Million standard cubic feet per year (MM SCFT/Yr)	12-month rolling time period as determined at the end of each calendar month	EU-BODY-SHOP-NORTH (CAB)	SC VI.1	R 336.1205(1)(a) & (3) R 336.1225

^β Note: Natural gas-combustion equipment shall burn **only** pipeline quality sweet natural gas.

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 sealer and adhesive, as applied, shall be determined using federal Reference Test Method 24 (RM 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 AQD District Supervisor, the VOC content of each sealer and adhesive shall be verified by RM 24 testing at owner’s expense.² **(R336.1702(a), R 336.2003, R 336.2004)**

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 monitor and record in a satisfactory manner, the total natural gas used in EU-BODY-SHOP-NORTH per 12-month rolling time period as determined at the end of each calendar month. The permittee

shall keep all records on file and make them available, in a format and manner acceptable to AQD, to the Department upon request.² (R 336.1205(1)(a), R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

See Appendix 3

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

D. FLEXIBLE GROUP SPECIAL CONDITIONS

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

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

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-FACILITY-NORTH	This flexible group covers all equipment at automotive assembly and north painting operations (CAB) excluding south paint shop (BOX), where truck boxes are painted. One regenerative thermal oxidizer (north RTO or RTO-NORTH) for control of VOC emissions.	<p>All emission units associated with automotive assembly and north painting operations (CAB) excluding south paint shop (BOX) emission units. This includes clean up and purge activities, fuel storage tanks, and boilers in the north plant (CAB).</p> <p>The emission units include: EU-FINAL-REPAIR, EU-WWASH&GASFIL, EU-BOILER1, EU-BOILER2, EU-BOILER3, EU-SANDING-NORTH, EU-SEALERS&ADHESIVES-FBP-NORTH (FRAME, BODY & PAINT; CAB), EU-ECOAT-NORTH, EU-FLASH-PRIMER-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH, EU-TOUCH-UP-NORTH, EU-FINAL-SEALER, EU-PAINT-SPOT-REPAIR-NORTH, EU-WIPE-NORTH, EU-PURGE-CLEAN-NORTH, EU-AST1 thru EU-AST15, EU-DC1, EU-NPS1, EU-NPS3 thru EU-NPS5, EU-NPS7, EU-BODY-SHOP-NORTH, EU-HWG1 thru EU-HWG3.</p>

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-CONTROL-NORTH	Regenerative thermal oxidizer (north RTO or RTO-NORTH) used for control of VOC emissions from the north paint spray booths and curing ovens. The north RTO (or RTO-NORTH) controls the E-coat tank, basecoat heated flash zones, the clearcoat automatic sections of the paint spray booths, and the coating ovens associated with E-coat and topcoat, in the North Paint Shop.	All emission associated with automotive assembly and north painting operations in north paint shop (CAB) with VOC controls in FG-FACILITY-NORTH. The emission units include: EU-ECOAT-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH.
FG-BOILERS	Three (3) natural gas fired boilers used to generate hot water for in-plant use. One boiler has a heat input capacity of 85 million BTU per hour and the other two (2) each have a heat input capacity of 118 million BTU per hour. Boiler Nos. 2 and 3 are equipped with low NOx burner technology. EU-HWG 1, 2 & 3 are each a 31.5 million BTU per hour natural gas fired hot water generator. EU-HWG 4, 5 & 6 are each 18 million BTU per hour natural gas fired hot water generator. All boilers are equipped with Oxygen Trim Systems.	EU-BOILER1 EU-BOILER2 EU-BOILER3 EU-HWG1 EU-HWG2 EU-HWG3. EU-HWG4 EU-HWG5 EU-HWG6
FG-CAM	Compliance Assurance Monitoring (CAM) requirements for north RTO (RTO-NORTH) and south RTO (RTO-SOUTH), The RTOs reduce VOC emissions to comply with the corresponding emission limits in various north and south paint shop processes.	EU-ECOAT-NORTH EU-TOPCOAT1-NORTH EU-TOPCOAT2-NORTH EU-TOPCOAT3-NORTH EU-E-COAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-MISC-SOLVENTS-SOUTH

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-AUTOMACT	<p>Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment. An affected source is a new affected source if you commenced its construction / reconstruction after December 24, 2002. Coating operations at SHAP consist of two separate painting facilities: north plant (CAB) with RTO-NORTH and south plant (BOX) with RTO-SOUTH. Both south and north coating operations are considered new.</p>	<p>EU-ECOAT-NORTH EU-FLASH-PRIMER-NORTH EU-TOPCOAT1-NORTH EU-TOPCOAT2-NORTH EU-TOPCOAT3-NORTH EU-TOUCH-UP-NORTH EU-SEALERS&ADHESIVES-FBP-NORTH</p> <p>EU-FINAL-REPAIR-NORTH EU-FINAL-SEALER EU-PAINT-SPOT-REPAIR-NORTH</p> <p>EU-WIPE-NORTH EU-PURGE-CLEAN-NORTH EU-AST15 EU-NPS1 EU-NPS3 EU-NPS4 EU-NPS5 EU-NPS7 EU-E-COAT-SOUTH EU-SEALER-SOUTH EU-POWDERCOAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-MISC-SOLVENTS-SOUTH</p> <p>EU-SPOT-REPAIR1-SOUTH EU-SPOT-REPAIR2-SOUTH EU-HEAVY-REPAIR-SOUTH EU-AST-PURGE-SOUTH EU-SOBL-APPLICATION</p>
FG-TOPCOAT-SOUTH	<p>A color preparation sanding booth (topcoat sand), followed by two (2) identical and parallel topcoat lines, each consisting of: A water-borne basecoat application followed by a solvent borne clearcoat. All paint application will be performed by robotic and bell applicators (except in emergency back-up situations). A heated flash zone separates the basecoat and clearcoat sections. Once clearcoat application is complete, the light duty truck box proceeds to the main bake oven. VOC emissions from the water-borne basecoat booths, the heated flash zone, the clearcoat spray booths and the topcoat cure oven and controlled by a south Regenerative Thermal Oxidizer (RTO-SOUTH).</p>	<p>EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH</p>
FG-REPAIR-SOUTH	<p>Spot and final repair operations for the south paint shop used to paint truck boxes.</p>	<p>EU-SPOT-REPAIR1-SOUTH EU-SPOT-REPAIR2-SOUTH EU-HEAVY-REPAIR-SOUTH</p>

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-NG-SOUTH	Three (3) natural gas fired hot water generators equipped with low NOx burners with a maximum heat input of up to 18 million BTU (MM BTU) per hour each. This flexible group also includes all natural gas combustion in all air supply houses, space heaters, heated flash, cure ovens, emergency engines (generators) and the RTO-SOUTH, associated with the south paint shop. All air supply houses are direct fire units.	EU-E-COAT-SOUTH EU-SEALER-SOUTH EU-POWDERCOAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-HWG 4 EU-HWG 5 EU-HWG 6 EU-ENG-GEN1-SOUTH EU-ENG-GEN2-SOUTH
FG-CONTROL-SOUTH	This flexible group covers the Regenerative Thermal Oxidizer (RTO-SOUTH or south RTO), the dry filter particulate control systems and the water wash particulate control system at the paint shop (BOX).	EU-E-COAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-MISC-SOLVENTS-SOUTH EU-SPOT-REPAIR1-SOUTH EU-SPOT-REPAIR2-SOUTH EU-HEAVY-REPAIR-SOUTH
FG-FACILITY-SOUTH	All process equipment associated with the south paint line/paint shop used for painting truck boxes.	EU-PHOSPHATE-SOUTH EU-E-COAT-SOUTH EU-SEALER-SOUTH EU-POWDERCOAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-MISC-SOLVENTS-SOUTH EU-SPOT-REPAIR1-SOUTH EU-SPOT-REPAIR2-SOUTH EU-HEAVY-REPAIR-SOUTH EU-AST-PURGE SOUTH EU-HWG4 EU-HWG5 EU-HWG6 EU-ENG-GEN1-SOUTH EU-ENG-GEN2-SOUTH
FG-RTO-SOUTH&POWDER-OVEN-PM	Flexible group for PM, PM10 and PM2.5 emissions from the RTO-SOUTH and powder coat oven.	EU-E-COAT-SOUTH EU-POWDERCOAT-SOUTH EU-TOPCOAT1-SOUTH EU-TOPCOAT2-SOUTH EU-MISC-SOLVENTS-SOUTH

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-OLD-MACT	<p>FG-OLD-MACT: 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))</p> <p>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.</p>	EUAST13
FG-BOILER-MACT-5D	Requirements for existing Gas 1, (Natural Gas only) for Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers or process heaters must comply with this subpart no later than January 31, 2016, except as provided in 40 CFR 63.6(i).	EU-BOILER1 EU-BOILER2 EU-BOILER3 EU-HWG1 EU-HWG2 EU-HWG3 EU-HWG4 EU-HWG5 EU-HWG6
FG-ENG-FIREPUMP	40 CFR Part 60, Subpart IIII – New Source Performance Standards, for, new emergency, compression ignition (CI) reciprocating internal combustion engines (RICE), that have a maximum site rating of less than 500 brake hp. The emergency engines are for the fire pumps located in the pump house.	EU-ENG-PH1 EU-ENG-PH2
FG-ENG-DATACTR	40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, new or reconstructed, either combustion ignition or spark ignition, emergency RICE greater than 500 brake hp. (FG-63-4Z-M/N/ClorSI/E/NG/>500)	EU-ENG-DATACTR
FG-MACT-ZZZZ–EXISTING-EMERGENCY CI > 500 HP	Existing CI Engines located at a Major Source > 500 HP, Emergency	EU-ENG-GENASSY

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-NSPS IIII EMERGENCY PRE-2007 < 10 I/CYL:	This flexible group includes new emergency compression ignition (CI) stationary reciprocating internal combustion engines (RICE)) that have a maximum site rating of greater than 500 brake horsepower (HP) and subject to 40 CFR 60, Subpart IIII.	EU-ENG-DATACTR (4091 HP, CI, built date 12/5/2006)
FG-NSPS JJJJ EMERGENCY > 100 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 (≥ 100 HP) but less than 500 (< 500 HP) and subject to 40 CFR 60, Subpart JJJJ (NG SI RICE NSPS 4J).	EU-ENG-NORTH-PSHOP1 EU-ENG-NORTH-BSHOP
FG-NSPS JJJJ EMERGENCY > 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 500 brake horsepower (HP) and subject to 40 CFR 60, Subpart JJJJ (NSPS 4J).	EU-ENG-PSHOP-NC-701HP EU-ENG-GEN1-SOUTH EU-ENG-GEN2-SOUTH
FG-SOBL	Spray-on Bedliner (SOBL) facility where fully assembled and painted trucks from the main assembly plant will be routed into one of several booths in which bedliner materials will be robotically sprayed onto the truck beds. Raw materials include cleaning solvents, a bonding agent, and a two-part (2-part) polyurethane resin. Natural gas-fired equipment will be used for process and space heating. This equipment is located at 7566 Metropolitan Parkway, directly across the street from the South Paint Shop (BOX) at the main assembly plant.	EU-SOBL-APPLICATION EU-SOBL-NAT-GAS
FGRULE287(2)(c)	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 287(2)(c). Emission units installed/modified before December 20, 2016, may show compliance with Rule 287 in effect at the time of installation/modification.	EU-FINAL-REPAIR
FGRULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.	EU-ENG-DATACTR EU-ENG-GENASSY

FG-FACILITY-NORTH FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-FACILITY-NORTH (CAB): This flexible group covers all equipment at north automotive assembly and painting operations (CAB) excluding south paint shop (BOX), where truck boxes are painted.

Emission Units: All emission units associated with automotive assembly and north painting operations (CAB) excluding south paint shop (BOX) emission units. This includes clean up and purge activities, fuel storage tanks, and boilers in the north plant (CAB). For example, the emission units include:

EU-FINAL-REPAIR, EU-WWASH&GASFIL, EU-BOILER1, EU-BOILER2, EU-BOILER3, EU-SANDING-NORTH, EU-SEALERS&ADHESIVES-FBP-NORTH (FRAME, BODY & PAINT; CAB), EU-ECOAT-NORTH, EU-FLASH-PRIMER-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH, EU-TOUCH-UP-NORTH, EU-FINAL-SEALER, EU-PAINT-SPOT-REPAIR-NORTH, EU-WIPE-NORTH, EU-PURGE-CLEAN-NORTH, EU-AST1 thru EU-AST15, EU-DC1, EU-NPS1, EU-NPS3 thru EU-NPS5, EU-NPS7, EU-BODY-SHOP-NORTH, EU-HWG1 thru EU-HWG3.

POLLUTION CONTROL EQUIPMENT

IN THE NORTH PAINT SHOP (CAB): One north regenerative thermal oxidizer (north RTO or RTO-NORTH) for control of VOC emissions from the e-coat tank, the basecoat heated flash zones, and the clearcoat automatic sections of the paint spray booths, as well as the coating ovens associated with e-coat and topcoat. Three (3) water-wash systems control particulate emissions from the three (3) north topcoat lines. An ORVR (Onboard Refueling Vapor Recovery) system controls the gasoline filling operations. Dry filter particulate control systems on the welding, grinding, sanding, and scuff operations and the low bake operations.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	673.2 ² Δ tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB)	SC VI.1	R 336.1225 R 336.1702(a)
2. VOC	4.5 ² β γ Δ pounds per job	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB) minus EU-PURGE-CLEAN-NORTH	SC VI.1	R 336.1225 R 336.1702(a)
3. PM10	55.8 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB)	SC VI.1	R 336.1205 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)
4. PM2.5	51.3 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB)	SC VI.1	R 336.1205 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
5. NOx	72.0 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB)	SC VI.1	R 336.1205 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

^β Note: This 4.5 lb/job VOC limit for FG-FACILITY-NORTH (CAB) does **NOT** include VOC emissions from EU-PURGE-CLEAN-NORTH (CAB).

^γ Note: A job is defined as a painted vehicle leaving the assembly line.

^Δ Note: The requirements of the NSPS MM, concerning north paint shop (CAB), are inherent in the 4.5 pounds of VOC per vehicle (without purge and cleanup) and the 673.2 tons of VOC per year (including EU-PURGE-CLEAN-NORTH) limits. Compliance with these PSD BACT VOC limits constitutes compliance with the NSPS MM.

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural gas ^μ	1,914 ² Million standard cubic feet per year (MM SCFT / Yr)	12-month rolling time period as determined at the end of each calendar month	FG-FACILITY-NORTH (CAB)	SC VI.1	R 336.1205(1)(a)

^μ Natural gas combustion equipment shall burn **only** pipeline quality sweet natural gas.

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each spray coating or sanding booth operation which directly vents to the outdoor ambient air with **water-wash** particulate controls unless another particulate control technology is specified.² (R 336.1301, R 336.1331, R 336.1910)

V. TESTING/SAMPLING

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

1. The permittee, at the owner's expense, shall verify²:
 - a. **PM10** emission rates from EU-SANDING-NORTH, a representative portion of EU-PAINT-SPOT-REPAIR-NORTH, an automated basecoat application zone portion of EU-TOPCOAT1-NORTH, an automated basecoat application zone portion of EU-TOPCOAT2-NORTH, an automated basecoat application zone portion of EU-TOPCOAT3-NORTH, & RTO-NORTH (if prior to testing, the permittee can demonstrate to the acceptance of the AQD District Supervisor that the three topcoat booths are identical and that it is only appropriate to test a single representative one instead of all three, then, upon approval by AQD, the permittee will only be required to test an automated application zone portion of a single topcoat booth);
 - b. **PM2.5** emission rates from EU-SANDING-NORTH, a representative portion of EU-PAINT-SPOT-REPAIR-NORTH, an automated basecoat application zone portion of EU-TOPCOAT1-NORTH, an automated basecoat application zone portion of EU-TOPCOAT2-NORTH, an automated basecoat application zone portion of EU-TOPCOAT3-NORTH, & RTO-NORTH (if prior to testing, the permittee can demonstrate to the acceptance of the AQD District Supervisor that the three topcoat booths are identical and that it is only

appropriate to test a single representative one instead of all three, then, upon approval by AQD, the permittee will only be required to test an automated application zone portion of a single topcoat booth);

- c. **PM10** emission rates from natural gas combustion in a single representative boiler (This boiler testing shall consist of three sample runs. For the other boilers, the permittee shall perform a single sample run to confirm that the PM10 emissions are similar to those from the boiler on which the three sample runs were taken. If the single sample run does not show the PM10 emissions to be similar, the permittee shall perform three sample runs on the boiler in question);
- d. **PM2.5** emission rates from natural gas combustion in a single representative boiler (This boiler testing shall consist of three sample runs. For the other boilers, the permittee shall perform a single sample run to confirm that the PM2.5 emissions are similar to those from the boiler on which the three sample runs were taken. If the single sample run does not show the PM2.5 emissions to be similar, the permittee shall perform three sample runs on the boiler in question);
- e. **NOx** emission rates from natural gas combustion in a single representative boiler (This boiler testing shall consist of three sample runs. For the other boilers, the permittee shall perform a single sample run to confirm that the NOx emissions are similar to those from the boiler on which the three sample runs were taken. If the single sample run does not show the NOx emissions to be similar, the permittee shall perform three sample runs on the boiler in question);
- f. **Overall transfer efficiency (TE)** of one representative automated basecoat application zone, and one representative Clearcoat booth (in-plant testing);
- g. **Capture efficiency (CE)** across one representative topcoat booth (in-plant testing); and
- h. **Destruction efficiency (DE)** of the regenerative thermal oxidizer (RTO-NORTH) (in-plant testing) by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant / Item	Test Method Reference
PM10/PM2.5	40 CFR Part 51, Appendix M
NOx	40 CFR Part 60, Appendix A
VOC & DE	40 CFR Part 60, Appendix A
TE	40 CFR 51 Appendix M, and the USEPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-450//3-88-018 (for in-plant testing only), as amended.
CE	40 CFR 51 Appendix M, and the USEPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-450//3-88-018 (for in-plant testing only), as amended.
DE	40 CFR 51 Appendix M, and the USEPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-450//3-88-018 (for in-plant testing only), as amended.

All test plans, methods and procedures shall have prior AQD approval. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results (hard copy and .PDF copy), in a format approved by AQD, to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (**R 336.1213(3), R 336.2001, R 336.2003, R 336.2004**)

- 2. The permittee shall verify the **PM10, PM2.5 & NOx** emission rates from the above emission units (EUs) and flexible groups (FGs) and **overall transfer efficiency (TE)** of one representative automated basecoat

application zone, and one representative Clearcoat booth & **destruction efficiency (DE)** of the north regenerative thermal oxidizer (north RTO or RTO-NORTH) at a minimum, every **five** years from the date of the most recent test. In lieu of subsequent testing, the permittee may seek approval of AQD that most recent acceptable test remains valid and representative.² (**R 336.1213(3), R 336.2001, R 336.2003, R 336.2004**)

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept.²
 - a. For each material used in FG-FACILITY-NORTH:
 - i. Material identification;
 - ii. Material VOC content;
 - iii. Material usage.
 - b. Number of jobs each calendar month (jobs/month), where a job is defined as a painted vehicle leaving the assembly line.
 - c. Calculations showing the FG-FACILITY-NORTH **monthly** and **annual** mass VOC emission rates, in tons per month (tpm) and tons per 12-month rolling time period (tpy), as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used. Calculations must also include a sample calculation based on the production of a single job and that specifies all measured or assumed process parameters (e.g., transfer, capture and control efficiencies, booth splits, etc.) and VOC emissions due to natural gas combustion, storage tanks, and paint sludge handling and disposal operations. Prior to the initial testing, for each controlled section, the design combined capture and control efficiency may be used. Thereafter, values no greater than the most recently tested values may be used.
 - d. Calculations showing the VOC emission rate (pounds per job [lb/job] minus EU-PURGE-CLEAN-NORTH) on a 12-month rolling basis, as determined at the end of each calendar month for the equipment covered by FG-FACILITY-NORTH.
 - e. Calculations showing the PM10 mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FG-FACILITY-NORTH. Prior to the testing required in SC V.1 being completed, these calculations shall be performed according to a method acceptable to the AQD District Supervisor. After the testing required in SC V.1 is completed, the PM10 emission factors measured during the test shall be used to perform these calculations.
 - f. Calculations showing the PM2.5 mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FG-FACILITY-NORTH. Prior to the testing required in SC V.1 being completed, these calculations shall be performed according to a method acceptable to the AQD District Supervisor. After the testing required in SC V.1 is completed, the PM2.5 emission factors measured during the test shall be used to perform these calculations.
 - g. Calculations showing the NOx mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FG-FACILITY-NORTH. Prior to the testing required in SC V.1 being completed, AP-42 emission factors shall be used to perform these calculations. After the testing required in SC V.1 is completed, the NOx emission factors measured during the test shall be used to perform these calculations.
 - h. Records of the total natural gas used during each calendar month and 12-month rolling time period, in standard cubic feet and million standard cubic feet.
 - i. Hours of operation for each calendar month and 12-month rolling time period.

All records/calculations shall be kept on file for a period of at least five years and made available, in a format and a manner acceptable to AQD, to the Department upon request.² (R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

2. The permittee shall monitor the condition of each particulate control system through **weekly visual inspections**. The permittee shall keep records of visual inspections of each exhaust filter or 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, in a format and a manner acceptable to AQD, to the Department upon request.² (R 336.1301, R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
4. For each emission unit (EU) and flexible group (FG) included in this permit, the permittee shall submit to the AQD District Supervisor, in an acceptable format, within 30 days following the end of the quarter in which the data was collected, the actual VOC, PM10, PM2.5, and NOx emission rates for each limit included in the permit.² (R 336.1205, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (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:

NA

IX. OTHER REQUIREMENT(S)

1. EGLE (fka MDEQ) has determined that compliance with the limits listed in SC I.1 through 2 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 (NSPS MM).² (40 CFR Part 60, Subpart MM)
2. The permittee shall keep on file all NSPS MM notifications and reports (40 CFR Part 60, Subpart MM)

Footnotes:

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

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

FG-CONTROL-NORTH FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-CONTROL-NORTH (CAB): Regenerative thermal oxidizer (north RTO or RTO-NORTH) used for control of VOC emissions from the north paint spray booths and curing ovens.

Emission Units: All emission units associated with automotive assembly and painting operations in north paint shop (CAB) with VOC controls. For example, the emission units include:

EU-ECOAT-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH.

POLLUTION CONTROL EQUIPMENT

Regenerative thermal oxidizer (north RTO or RTO-NORTH) used for control of VOC emissions from portions of the north painting operations and curing ovens.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-CONTROL-NORTH (CAB) unless a **malfunction abatement plan (MAP)** as described in Rule 911(2) is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a. A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b. An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c. A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.² **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain and operate in a satisfactory manner, combustion chamber *temperature monitoring devices* for a thermal oxidizer in FG-CONTROL-NORTH (CAB) to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² **(R 336.1702(a), R 336.1910, 40 CFR 52.21, 40 CFR Part 60, Subpart MM)**
2. Each temperature measurement device shall be installed immediately after the combustion zone and shall have an accuracy of greater of ± 5 percent of the temperature being measured expressed in degrees Celsius or ± 2.5 °C. **(40 CFR Part 60, Subpart MM, 40 CFR 60.394).**
3. The permittee shall maintain records of maintenance, calibration and repair activities. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request.² **(R 336.1910)**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

FG-BOILERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-BOILERS: There are three (3) natural gas fired boilers used to generate steam for in-plant use and six (6) natural gas fired hot water generators. One (1) boiler has a heat input capacity of **85** (BOILER1) million BTU per hour and the other two (2) each have a heat input capacity of **118** (BOILER2 & BOILER3) million BTU per hour. Boiler Nos. 2 and 3 are equipped with low NOx burner technology. EU-HWG 1, 2 & 3 are each a **31.5** million BTU per hour natural gas fired hot water generator. EU-HWG 4, 5 & 6 are each an **18** million BTU per hour natural gas fired hot water generator. EU-HWG 4, 5 & 6 are part of FG-NG-SOUTH as well; NSPS Dc requirements are covered in FG-BOILERS. All boilers are equipped with Oxygen Trim Systems.

Emission Units: EU-BOILER1, EU-BOILER2, EU-BOILER3, EU-HWG1, EU-HWG2, EU-HWG3, EU-HWG4, EU-HWG5 & EU-HWG6.

POLLUTION CONTROL EQUIPMENT

Low NOx burners for EU-BOILER2 & EU-BOILER3.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn **only** pipeline quality sweet natural gas in EU-BOILER2 & EU-BOILER3.² **(R 336.1201(3))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate boiler 2 or 3 unless its respective **low NOx burners** are installed and operating properly.² **(R 336.1910, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c), (d), & (j))**
2. The permittee shall burn **only** natural gas in each boiler portion of FG-BOILERS.² **(R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c), (d), & (j))**
3. The permittee shall burn **only** natural gas in each hot water generator portion of FG-BOILERS. **(R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c), (d), & (j))**
4. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc (NSPS A & Dc), as they apply to EU-BOILER1 portion of FG-BOILERS.² **(40 CFR Part 60, Subparts A & Dc)**
5. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to EU-HWG1, EU-HWG2, EU-HWG3, EU-HWG4, EU-HWG5 & EU-HWG6 portion of FG-BOILERS. **(40 CFR Part 60, Subparts A & Dc)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, monthly records of natural gas usage, in standard cubic feet (SCF per month), for each boiler portion of FG-BOILERS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R336.1213(3), 40 CFR 60.48c(g)(2))

See Appendices 3, 4, and/or 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT 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. SVST-BLR-001	96.0 ²	84.0 ²	R336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
2. SVST-BLR-002	96.0 ²	84.0 ²	R336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
3. SVST-BLR-003	96.0 ²	84.0 ²	R336.1225, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

The permittee shall keep on file all NSPS Dc notifications and reports pertaining to EU-BOILER1, EU-HWG1, EU-HWG2, EU-HWG3, EU-HWG4, EU-HWG5 & EU-HWG6. (40 CFR Part 60 Subparts A & Dc)

Footnotes:

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

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

FG-CAM FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-CAM: Compliance Assurance Monitoring (CAM) requirements concerning coating processes controlled by Two (2) Regenerative Thermal Oxidizers, namely RTO-NORTH and RTO-SOUTH, to reduce VOC emissions to comply with VOC emission limits specified in EU-E-COAT-SOUTH, EU-MISC-SOLVENTS-SOUTH, FG-FACILITY-NORTH and FG-TOPCOAT-SOUTH.

Emission Units: EU-E-COAT-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH, EU-E-COAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH & EU-MISC-SOLVENTS-SOUTH

POLLUTION CONTROL EQUIPMENT

Two (2) Regenerative Thermal Oxidizers:

1. RTO-NORTH (CAB) or north RTO
2. RTO-SOUTH (BOX) or south RTO

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate the emission units covered by FG-CAM unless the controlled portions of FG-CAM and their respective Thermal Oxidizers (RTO-NORTH & RTO-SOUTH) are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes maintaining a minimum combustion chamber temperature above the values listed for each applicable emission unit or the average combustion chamber temperature during the most recent acceptable performance test and a minimum retention time of 0.5 seconds. The minimum temperature requirement shall be based upon a 3-hour average. **(40 CFR 64.6(c)(1)(i),(ii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device for FG-CAM Thermal Oxidizers (RTO-NORTH and RTO-SOUTH) to monitor and record the temperature on a continuous basis, during operation of FG-CAM. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(40 CFR 64.6(c)(1)(i), (ii))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. For each control device (RTO-NORTH and RTO-SOUTH) in operation during production, the permittee shall conduct bypass monitoring for each bypass line such that the valve or closure mechanism cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file. **(40 CFR 64.3(a)(2))**
2. The permittee shall continuously monitor combustion zone chamber temperatures for FG-CAM regenerative thermal oxidizers (RTO-NORTH and RTO-SOUTH) and record a minimum of once every 15 minutes as an indicator of proper operation of the RTO while FG-CAM is operating. The indicator ranges for RTO-NORTH and RTO-SOUTH are minimum temperatures established during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency, separately for each RTO, as specified in corresponding EU & FG Tables. **(40 CFR 64.6(c)(1)(i) and (ii))**
3. The permittee shall develop, maintain and implement, an *Operation and Maintenance (O&M)* plan for FG-CAM which addresses at a minimum the requirements in Appendix 3 of this permit. The CAM and O&M plan shall be updated as necessary to reflect changes in monitoring, to implement corrective actions and to address malfunctions. Changes in the CAM portion of the operations and maintenance plan shall be submitted to the district supervisor for review and approval. All records and activities associated with the O&M plan shall be kept on file for a period of at least five years and made available to the department upon request. CAM and O&M plans may be combined into one plan. **(40 CFR 64.6(c)(1)(i), (ii), 40 CFR 64.7(e))**
4. The temperature monitor shall continuously monitor RTO combustion zone temperature. The averaging period is based upon a three-hour (3-hr) average. The monitor shall be calibrated as specified in the Operations and Maintenance (O & M) Plan. **(40 CFR 64.6(c)(1)(iii))**
5. 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 condition VI.2.
 - b. A *monitoring* excursion is defined as a failure to properly monitor as required in special conditions VI.1 and VI.2.
 - c. An *Operations and maintenance* excursion is defined as failure to follow the requirements of the O&M plan required in special condition VI.3.
6. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). See Appendix 3 for the corrective action plan. **(40 CFR 64.7(d))**
7. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 40 CFR 64.7(c))**

8. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**
9. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan and any activities undertaken to implement a quality improvement plan, and other information such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions. **(40 CFR 64.9(b)(1))**

See Appendix 3

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. **(40 CFR 64.9(a)(2)(i))**
5. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. **(40 CFR 64.9(a)(2)(ii))**

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:

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**
2. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and if necessary, submit a proposed modification of the ROP and CAM Plan to address the necessary monitoring changes. Such a modification may include but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. **(40 CFR 64.7(e))**
3. The permittee shall submit a *Quality Improvement Plan (QIP)* if six excursions occur in any three- month period. **(40 CFR 64.8(a))**

Footnotes:

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

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

**FG-AUTOMACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-AUTOMACT: Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment. An affected source is a new affected source if you commenced its construction / reconstruction after December 24, 2002. Coating operations at SHAP consist of two separate painting facilities: north plant (CAB) with RTO-NORTH and south plant (BOX) with RTO-SOUTH. Both south and north coating operations are considered new.

Emission Units: EU-ECOAT-NORTH, EU-FLASH-PRIMER-NORTH, EU-TOPCOAT1-NORTH, EU-TOPCOAT2-NORTH, EU-TOPCOAT3-NORTH, EU-TOUCH-UP-NORTH, EU-SEALERS&ADHESIVES-FBP-NORTH, EU-FINAL-REPAIR-NORTH, EU-FINAL-SEALER, EU-PAINT-SPOT-REPAIR-NORTH, EU-WIPE-NORTH, EU-PURGE-CLEAN-NORTH, EU-AST15, EU-NPS1, EU-NPS3, EU-NPS4, EU-NPS5, EU-NPS7, EU-E-COAT-SOUTH, EU-SEALER-SOUTH, EU-POWDERCOAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH, EU-MISC-SOLVENTS-SOUTH, EU-SPOT-REPAIR1-SOUTH, EU-SPOT-REPAIR2-SOUTH, EU-HEAVY-REPAIR-SOUTH, EU-AST-PURGE-SOUTH and EU-SOBL-APPLICATION

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.30 ² ^θ lb per GACS	Calendar month	New – FG-AUTOMACT WITH E- COAT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(a)
2. Organic HAP*	0.50 ² ^θ lb per GACS	Calendar month	New – FG-AUTOMACT	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(b)
3. Organic HAP	0.01 ² pound per pound of coating	Calendar month	New – SEALERS & ADHESIVES	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 ² pound per pound of coating	Calendar month	New – Deadener Materials	Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(d) or 63.3091(d)

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

^θ lb/GACS= pounds of Organic HAP per gallon of applied coating solids.

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

5. The permittee may choose to comply with either Special Condition numbers I.1 or I.2. The permittee may choose to comply with Special Condition number I.2 only if Electrocoat system (E-COAT) meets either of the following requirements.² **(40 CFR 63.3090)**
- 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 OSHA-defined carcinogenic organic HAP, or
 - b. The emissions from all Electrocoat bake ovens are captured and ducted to a CONTROL DEVICE(S) 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.²
 - a. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
 - b. The risk of 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 through a plan 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).² **(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 (ROP). Revisions to the work practice plan likewise do not represent revisions to the facility's ROP. Copies of the current work practice plan and any earlier plan developed within the past 5 years are required to be made available for inspection and copying by the AQD upon request.² **(40 CFR 63.3094)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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 63.3173.² **(40 CFR, Part 63, Subpart IIII)**
2. The permittee may rely upon the results of transfer efficiency tests that have been previously conducted upon written approval from the AQD District Supervisor. Any such previous tests must meet the criteria identified in 40 CFR 63.3160(c)(1) through (3)² **(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 the 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 63.7.² **(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. **(R 336.1213(3)(b)(ii))**

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.² **(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 keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131.² **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**
4. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:²
 - 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. **(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. For each coating or thinner used in FG-AUTOMACT or FG-AUTOMACT WITH E COAT, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. **(40 CFR 63.3130(c))**
- d. For each material used in SEALERS & ADHESIVES, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**
- e. Calculations of the organic HAP emission rate for FG-AUTOMACT or FG-AUTOMACT WITH E-COAT 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. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**
- f. Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for SEALERS & ADHESIVES. **(40 CFR 63.3130(c), 40 CFR 63.3152)**
- g. The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) - (f))**

See Appendices 3, 4, and/or 7

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
- 2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i), 40 CFR 63.3120(a)(1))**
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
- 4. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.3120(a). The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever comes first. These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30.² **(40 CFR 63.3120(a))**
- 5. The permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 40 CFR 63.8(f)(4) and 40 CFR 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110.² **(40 CFR Part 63, Subparts A and IIII)**

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:

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart IIII for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date as they apply to FG-AUTOMACT. The permittee may choose an alternative compliance method not listed in FG-AUTOMACT by providing the appropriate notifications required under 40 CFR, Part 63.9(j), maintaining a log required by 40 CFR, Part 70.6(9), and by complying with all applicable provisions required by Subpart IIII for the compliance option chosen.² **(40 CFR 70.6(a)(9), 40 CFR Part 63.9(j), 40 CFR Part 63 Subparts A and IIII)**

Footnotes:

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

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

**FG-TOPCOAT-SOUTH
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-TOPCOAT-SOUTH (BOX): A color preparation sanding booth (topcoat sand), followed by two (2) identical and parallel topcoat lines (TOPCOAT1 & TOPCOAT2), each consisting of: A water-borne basecoat (BC) application followed by a solvent borne clearcoat (CC). All paint application will be performed by robotic and bell applicators (except in emergency back-up situations). A heated flash zone separates the basecoat and clearcoat sections. Once clearcoat application is complete, the light duty truck box proceeds to the main bake oven. VOC emissions from the water-borne basecoat booths, the heated flash zone, the clearcoat spray booths and the topcoat cure oven are controlled by a south Regenerative Thermal Oxidizer (RTO-SOUTH).

Emission Units: EU-TOPCOAT1-SOUTH (BOX) & EU-TOPCOAT2-SOUTH (BOX)

POLLUTION CONTROL EQUIPMENT

1. A water wash system for particulate control for spray coating operations.
2. An RTO (RTO-SOUTH or south RTO) for VOC control.
3. A dry filter particulate control system for the topcoat sanding booth.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. VOC	2.32 ² lb/GACS ⁹	Calendar day averaging	FG-TOPCOAT- SOUTH (BOX)	SC VI.4	R 336.1205 R 336.1702(a) R 336.2810 40 CFR Part 60, Subpart MM
2. VOC, Acetone, Methyl Acetate, and TBA combined	105.7 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-TOPCOAT- SOUTH (BOX)	SC VI.4	R 336.1205 R 336.1224 R 336.1702(a) R 336.2810
3. PM	0.0031 ² pound per 1,000 pounds of exhaust gas ^β	Hourly	FG-TOPCOAT- SOUTH (BOX) (each observation zone)	SC V.4	R336.1331
4. PM10	0.11 ² pound per hour per zone	Hourly	FG-TOPCOAT- SOUTH (BOX) base coat observation zone (each line has 1 base coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b) 40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
5. PM10	0.19 ² pound per hour per zone	Hourly	FG-TOPCOAT- SOUTH (BOX) clear coat observation zone (each line has 1 clear coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b) 40 CFR 52.21 (c) & (d)
6. PM2.5	0.11 ² pound per hour per zone	Hourly	FG-TOPCOAT- SOUTH (BOX) base coat observation zone (each line has 1 base coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b) R 336.2803 R 336.2804 R 336.2810
7. PM2.5	0.19 ² pound per hour per zone	Hourly	FG-TOPCOAT- SOUTH (BOX) clear coat observation zone (each line has 1 clear coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b) R 336.2803 R 336.2804 R 336.2810

⁹ lb/GACS= pounds of VOC per gallon of applied coating solids. Compliance with this PSD BACT limit of 2.32 lb/GACS is deemed to be compliance with NSPS MM topcoat limit of 12.27 lbs VOC/GACS. PSD BACT is more stringent standard than RACT Rule 336.1610 (14.9 pounds of volatile organic compounds per gallon of applied coating solids).

⁸ Pound of PM per 1,000 pounds of exhaust gas shall be calculated on a wet gas basis

II. MATERIAL LIMIT(S)

- The permittee shall **not** use any basecoat (BC) coating that exceeds uncontrolled total *formaldehyde* content of 0.1 percent by weight. Further, the *melamine formaldehyde resin* content of these coatings shall not exceed 18.0 percent by weight as determined from the supplier's MSDS / SDS. The permittee shall not use any clearcoat (CC) coating that exceeds uncontrolled total *formaldehyde* content of 0.3 percent by weight. Further, the *melamine formaldehyde resin* content of these coatings shall not exceed 20.0 percent by weight as determined from the supplier's MSDS. The uncontrolled total formaldehyde content is defined as the total of free formaldehyde in the coating formulation and any additional formaldehyde liberated from the melamine formaldehyde resin during curing, without any reduction for add-on VOC control equipment being taken.¹ **(R 336.1225(2))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- All waste coatings and VOC, acetone, methyl acetate and TBA containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² **(R 336.1205, R 336.1224, R 336.1702(a), R 336.2810)**
- The permittee shall operate each automatic clearcoat section of the two topcoat booths, such that *adequate positive flow of the air* into the controlled zones occurs whenever the respective booth sections are in use. Adequate positive flow of air into the controlled zones shall be demonstrated according to a method acceptable to the AQD District Supervisor. This requirement does not apply during topcoat equipment validation resulting from robot maintenance during non-production periods.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any of the topcoat painting, heated flash or curing equipment (basecoat spray zones, basecoat heated flashes, clearcoat spray zones, two topcoat curing ovens) within FG-TOPCOAT-SOUTH (BOX) unless the RTO-SOUTH or south RTO is installed, maintained and operated in a satisfactory manner. Satisfactory operation of thermal oxidizer includes maintaining all firebox zones of the RTO-SOUTH or south RTO at a minimum average temperature of **1,500°F** ($\geq 1500^{\circ}\text{F}$) or at the temperature established during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency ($\text{DE} \geq 95\%$), based upon a three-hour average, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of 1500°F (or at the most recent acceptable temperature established during the most recent performance test) based upon a three-hour rolling average may be used provided $\text{DE} \geq 95\%$.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810, 40 CFR 60.390)**
2. The permittee shall **not** operate the topcoat sanding booth portion of FG-TOPCOAT-SOUTH (BOX) unless the **dry filter** particulate control system is installed maintained and operated in a satisfactory manner.² **(R 336.1224, R 336.1910)**
3. The permittee shall **not** operate FG-TOPCOAT-SOUTH (BOX) unless the **water wash** particulate control system is installed, maintained and operated in a satisfactory manner.² **(R 336.1224, R 339.1910)**

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 any coating or materials, as applied and as received shall be determined using federal Reference Test Method 24 (RM 24). Upon prior approval of the AQD District Supervisor, the VOC content of any coating may alternatively be determined from manufacturer’s formulation data.² **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**
2. The permittee, at the owner’s expense, shall verify:²
 - a. **Capture efficiency (CE)** of the control equipment portions, also identified as “*Oven Solvent Loading*” (OSL) testing, of FG-TOPCOAT-SOUTH (BOX)
 - b. **Destruction efficiency (DE)** of the control equipment portions of FG-TOPCOAT-SOUTH (BOX)
 - c. **Transfer efficiency (TE)** of FG-TOPCOAT-SOUTH (BOX)
 - d. **PM_{2.5}** emission rates from all observation zones portion of FG-TOPCOAT-SOUTH (BOX)
 - e. **PM₁₀** emission rates from all observation zones portion of FG-TOPCOAT-SOUTH (BOX)
 - f. **PM** emission rates from all observation zones portion of FG-TOPCOAT-SOUTH (BOX) by testing at owner’s expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant / Item	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM ₁₀ /PM _{2.5}	40 CFR Part 51, Appendix M
CE	U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. 40 CFR 51 Appendix M and 40 CFR 60 Appendix A
DE	U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. 40 CFR 51 Appendix M and 40 CFR 60 Appendix A
TE	U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended.
VOC, DE	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results (hard copy and .PDF copy), in a format approved by AQD, to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

3. The permittee shall verify the **PM2.5, PM10 & PM** emission rates from all observation zones portion of FG-TOPCOAT-SOUTH (BOX) and **capture efficiency** (CE of the control equipment portions), **destruction efficiency** (DE of the control equipment portions) & **transfer efficiency** (TE) of FG-TOPCOAT-SOUTH (BOX), at a minimum, every five years from the date of the most recent test. In lieu of subsequent testing, the permittee may seek approval of AQD that most recent acceptable test remains valid and representative.² **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
4. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted.² **(R 336.1213(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. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2810)**
2. The permittee shall monitor and record the temperature in FG-TOPCOAT-SOUTH (BOX) RTO-SOUTH on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be made available, in a format and manner acceptable to AQD, to the Department upon request.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810, 40 CFR 60.390)**
3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and material including the weight percent of each component used in FG-TOPCOAT-SOUTH (BOX). The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be made available, in a format and manner acceptable to AQD, to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 60.390)**
4. The permittee shall keep production, usage, VOC, solids content and emissions calculations records on a monthly basis for each coating and material used in FG-TOPCOAT-SOUTH (BOX) in accordance with the Auto Protocol (EPA-453/R-08-002). The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:²
 - a. The daily and monthly number of jobs produced.
 - b. The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c. The monthly usage rate of each material (in gallons – with water).
 - d. For each coating material:
 - i. The calculated monthly analytical VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation VOC content in pounds of VOC per gallon as applied.
 - iii. The calculated monthly formulation volume solids content as applied.
 - iv. The prior to control free formaldehyde content and the weight percent melamine resin based on the supplier's MSDS.

- e. The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
- f. The total gallons of solids deposited on a daily basis.
- g. The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
- h. Calculated VOC, acetone, methyl acetate and TBA combined emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available, in a format and manner acceptable to AQD, to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.2810, 40 CFR 60.390)**

See Appendices 3, 4, and/or 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT 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 ²:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-BASE COAT OBSV 1	42.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
2. SV-BASE COAT OBSV 2	42.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
3. SV-CLEAR COAT OBSV 1	56.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
4. SV-CLEAR COAT OBSV 2	56.0 ²	115.0	R 336.1225 R 336.2803 R 336.2804
5. SV-RTO-SOUTH	98.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
6. The permittee shall discharge the exhaust gases from the Topcoat sanding portion of FG-TOPCOAT-SOUTH (BOX) into the general in-plant environment. ² (R 336.1225, R 336.2803, R 336.2804)			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and IIII (NESHAP / MACT A & 4I), as they apply to FG-TOPCOAT-SOUTH (BOX).² (40 CFR Part 63 Subparts A and IIII)
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM (NSPS A & MM), as they apply to FG-TOPCOAT-SOUTH (BOX).² (40 CFR 60.390)

Footnotes:

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

**FG-REPAIR-SOUTH
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-REPAIR-SOUTH (BOX): Spot and final repair operations for the south paint shop used to paint truck boxes.

Emission Units: EU-SPOT-REPAIR1-SOUTH (BOX), EU-SPOT-REPAIR2-SOUTH (BOX) and EU-HEAVY-REPAIR-SOUTH (BOX)

POLLUTION CONTROL EQUIPMENT

Dry filter particulate control system

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. VOC	4.8 ² pounds per gallon (minus water), as applied	Daily volume weighted average	FG-REPAIR- SOUTH (BOX)	SC VI.3	R 336.1702(a) R336.2810
2. VOC, acetone, methyl acetate and TBA combined	11.0 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-REPAIR- SOUTH (BOX)	SC VI.3	R 336.1224 R 336.1702(a) R336.2810
3. PM	0.0031 ² pounds per 1,000 pounds of exhaust gas ^β	Hourly	FG-REPAIR- SOUTH (BOX) (each spot repair booth)	SC V.2	R 336.1331
4. PM10	0.25 pph ²	Hourly	FG-REPAIR- SOUTH (BOX) (combined spot repair booths)	SC V.2	R 336.1205(1)(a)&(1)(b) 40 CFR 52.21 (c) & (d)
5. PM2.5	0.25 pph ²	Hourly	FG-REPAIR- SOUTH (BOX) (combined spot repair booths)	SC V.3	R 336.1205(1)(a)&(1)(b) R 336.2803 R 336.2804 R 336.2810

^β Pounds of PM per 1,000 pounds of exhaust gas shall be calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- All waste coatings and VOC, acetone, methyl acetate and TBA containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.² (**R 336.1205, R 336.1224, R 336.1702(a), R 336.2810**)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the FG-REPAIR-SOUTH (BOX) unless the **dry filter** particulate control system(s) in each booth are installed maintained and operated in a satisfactory manner.² **(R 336.1224, R 336.1910)**

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 any coating or material, as applied and as received shall be determined using federal Reference Test Method 24. Upon prior approval of the AQD District Supervisor, the VOC content of any coating may alternatively be determined from manufacturer’s formulation data.² **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**
2. Upon request of the AQD District Supervisor, the permittee shall verify PM and PM10 emission rates from the spot repair booth portion of FG-REPAIR SOUTH, by testing at owner’s expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the Reference Test Method Table included in this special condition. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District Supervisor to use other similar test results for compliance purposes.

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21 (c) and (d))**

Reference Test Method Table

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10	40 CFR Part 51, Appendix M

3. Upon request of the AQD District Supervisor, the permittee shall verify PM2.5 emission rates from the spot repair booth portion of FG-REPAIR SOUTH, by testing at owner’s expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the Reference Test Method Table included in this special condition. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District Supervisor to use other similar test results for compliance purposes.

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c) and (d))**

Reference Test Method Table

Pollutant	Test Method Reference
PM2.5	40 CFR Part 51, Appendix M

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2810)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and material, including the weight percent of each component used in FG-REPAIR-SOUTH (BOX). The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be made available to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)**
3. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in FG-REPAIR-SOUTH (BOX). The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:²
 - a. A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b. The monthly usage rate of each material.
 - c. The amount of material reclaimed where applicable.
 - d. The VOC, acetone, methyl acetate and TBA combined emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.
 - e. Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file 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)**

See Appendices 3, 4, and/or 7

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
5. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD.² **(R 336.2001(5))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-SPOT-REPAIR1-SOUTH (BOX) & SV-SPOT-REPAIR2-SOUTH (BOX) (Combined into 1 stack)	70.0 ²	74.0 ²	R 336.1225 R 336.2803 R 336.2804 40 CFR 52.21 (c) & (d)

- The permittee shall discharge the exhaust gases from the EU-HEAVY-REPAIR-SOUTH (BOX) portion of FG-REPAIR-SOUTH (BOX) into the general in-plant environment.² **(R 336.1225, R 336.2803, R 336.2804)**

IX. OTHER REQUIREMENT(S)

- The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and IIII (NESHAP / MACT 4I), as they apply to FG-REPAIR-SOUTH (BOX).² **(40 CFR Part 63 Subparts A and IIII)**

Footnotes:

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

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

**FG-NG-SOUTH
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-NG-SOUTH (BOX): Three (3) natural gas fired hot water generators equipped with low NOx burners with a maximum heat input of up to 18 million BTU (MM BTU) per hour each. This flexible group also includes all natural gas combustion in all air supply houses, space heaters, heated flash, cure ovens, emergency engines (generators) and the RTO-SOUTH. All air supply houses are direct fire units.

Emission Units: EU-E-COAT-SOUTH, EU-SEALER-SOUTH, EU-POWDERCOAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH, EU-HWG 4, EU-HWG 5, EU-HWG 6, EU-ENG-GEN1-SOUTH, EU-ENG-GEN2-SOUTH

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all natural gas fired equipment (excluding emergency SI RICE engines) at south plant.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	27.6 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-NG-SOUTH (BOX)	SC VI.2	R 336.1205(1)(a) & (3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn **only** pipeline quality sweet natural gas in FG-NG-SOUTH (BOX).² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))
2. The total combined natural gas usage for FG-NG-SOUTH (BOX) shall not exceed **1,068** million SCF per year on a 12-month rolling time period basis as determined at the end of each calendar month.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FG-NG-SOUTH (BOX) (excluding emergency engines) unless the Low NOx burners are installed, maintained and operated in a satisfactory manner. ² (R 336.1205, R 336.2810)
2. The heat input capacity of each hot water generator in FG-NG-SOUTH (BOX) shall not exceed a maximum of 18 million BTU (MM BTU) per hour.² (R 336.1205(1)(a) & (3), R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))
3. Each hot water generator in FG-NG-SOUTH (BOX) shall have a device to monitor and record the monthly natural gas usage.² (R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 60.48c(g))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
2. Based upon the records of the amount of natural gas burned and the US EPA AP-42 emission factor for NOx from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total NOx emissions for FG-NG-SOUTH (BOX), as required by SC I.1. Upon agreement with the AQD District Supervisor an alternative emission factor or calculation method may be used. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3))**
3. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million cubic feet for FG-NG-SOUTH (BOX). The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

See Appendices 3, 4, and/or 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-HWG4	24.0 ²	48.0 ²	R 336.1225 R 336.2803 R 336.2804
2. SV-HWG5	24.0 ²	48.0 ²	R 336.1225 R 336.2803 R 336.2804
3. SV-HWG6	24.0 ²	48.0 ²	R 336.1225 R 336.2803 R 336.2804
4. The exhaust gases from the Deck Air Supply House portions of FG-NG BOX shall be released only into the general in-plant environment. ² (R 336.1205, 40 CFR 52.21(c) & (d))			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc (NSPS A & Dc), as they apply to each Hot Water Generator in FG-NG-SOUTH (BOX).² **(40 CFR Part 60, Subparts A & Dc)**

Footnotes:

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

**FG-CONTROL-SOUTH
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-CONTROL-SOUTH (BOX): This flexible group covers the Regenerative Thermal Oxidizer (RTO-SOUTH or south RTO), the dry filter particulate control systems and the water wash particulate control system at the south paint shop (BOX).

Emission Units: EU-E-COAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH, EU-MISC-SOLVENTS-SOUTH, EU-SPOT-REPAIR1-SOUTH, EU-SPOT-REPAIR2-SOUTH, EU-HEAVY-REPAIR-SOUTH

POLLUTION CONTROL EQUIPMENT

1. Regenerative Thermal Oxidizer (RTO-SOUTH or south RTO) for control of VOC emissions from e-coat and topcoat at the south paint shop (BOX).
2. Dry filter particulate control for the sanding booth portions of e-coat, topcoat, spot repair and heavy repair at the south paint shop (BOX).
3. Water wash particulate control for topcoat at the south paint shop (BOX).

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-CONTROL-SOUTH (BOX) unless a **Malfunction Abatement Plan (MAP)** has been submitted to the AQD District Supervisor for review and approval. The plan shall include the procedures for maintaining and operating in a satisfactory manner, the south RTO, the water wash system and the dry filter particulate filter system(s) add on control devices. If the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the malfunction abatement plan within 45 days after such an event occurs and submit the revised plan to the AQD District Supervisor. The revised plan shall include procedures for maintaining and operating in a satisfactory manner, FG-CONTROL-SOUTH (BOX) add-on air pollution control devices, and monitoring equipment during malfunction events, and a program for corrective action for such events. All records and activities associated with the MAP shall be made available to the Department upon request.² (R 336.1225, R 336.702, R 336.1910, R 336.1911.

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. Temperature monitoring:
 - a. The permittee shall install, maintain and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the thermal oxidizers in FG-CONTROL-SOUTH (BOX) to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request.² **(R 336.1225, R 336.1702(a), R 336.1910, R 336.2810, 40 CFR Part 60, Subpart MM)**
 - b. Each temperature measurement device shall be installed immediately after the combustion zone and shall have an accuracy of greater of ± 5 percent of the temperature being measured expressed in degrees Celsius or ± 2.5 °C.² **(40 CFR Part 60, Subpart MM, 40 CFR 60.394).**
2. The permittee shall maintain records of maintenance and repair activities for FG-CONTROL-SOUTH (BOX). Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request.² **(R 336.1910)**
3. The permittee shall monitor the condition of each particulate control system through **weekly** visual inspections (except during weeks with no production) of each basecoat and clearcoat spray booths and **monthly** visual inspections of each heavy and spot repair booth and the E-coat sanding booth. The permittee shall keep records of visual inspections of each exhaust filter, wet eliminator, or 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 and made available to the Department upon request.² **(R 336.1301, R 336.1331, R 336.1910, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c) and (d))**
4. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request.² **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c) and (d))**
5. For the south RTO (RTO-SOUTH), while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request.² **(R 336.1702, R 336.1910, R 336.2810)**
6. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the RTO control device used to demonstrate compliance with the applicable VOC emission limits:²
 - a. Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
 - b. Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.
 - c. Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.

The requirement to address these items is also satisfied if a destruction efficiency test has been performed on the control device within the prior 18-month period. All records shall be kept on file and made available to the Department upon request.² **(R 336.1910, R 336.1911)**

See Appendices 3, 4, and/or 7

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30.² **(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))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO-SOUTH	98.0 ²	115 ²	R 336.1225 R 336.2803 R 336.2804

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

FG-FACILITY-SOUTH FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-FACILITY-SOUTH (BOX): All process equipment associated with the south paint line/paint shop used for painting truck boxes.

Emission Units: EU-PHOSPHATE-SOUTH, EU-E-COAT-SOUTH, EU-SEALER-SOUTH, EU-POWDERCOAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH, EU-MISC-SOLVENTS-SOUTH, EU-SPOT-REPAIR1-SOUTH, EU-SPOT-REPAIR2-SOUTH, EU-HEAVY-REPAIR-SOUTH, EU-AST-PURGE SOUTH, EU-HWG4, EU-HWG5, EU-HWG6, EU-ENG-GEN1-SOUTH, EU-ENG-GEN2-SOUTH

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not produce more than **407,000** saleable truck boxes per 12 month rolling time period.² (R 336.1205, R 336.1225, R 336.2803, R 336.2804)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep a record, in a manner acceptable to the District Supervisor of the number of saleable truck boxes per calendar month. The permittee shall also keep a record of the number of saleable truck boxes produced on a 12-month rolling time period as determined at the end of each calendar month.² (R 336.1205(1)((a) & (3), R 336.1224, R 336.1225)

VII. REPORTING

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

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

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall keep on file records of NSPS MM 40 CFR 60.7 notifications. **(40 CFR 60.7)**

Footnotes:

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

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

**FG-RTO-SOUTH&POWDER-OVEN-PM
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-RTO-SOUTH&POWDER-OVEN-PM (BOX): Flexible group for PM, PM10 and PM2.5 emissions from the RTO-SOUTH and powder coat oven.

Emission Units: EU-E-COAT-SOUTH, EU-POWDERCOAT-SOUTH, EU-TOPCOAT1-SOUTH, EU-TOPCOAT2-SOUTH, EU-MISC-SOLVENTS-SOUTH

POLLUTION CONTROL EQUIPMENT

Regenerative Thermal Oxidizer (RTO-SOUTH (BOX) or south RTO (BOX)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. PM	0.0034 ² ^β pounds per 1,000 pounds of exhaust gas	Hourly	RTO-SOUTH and Cure Oven portion of EU-POWDERCOAT- SOUTH (BOX)	SC V.1	R 336.1205(1)(a) and (1)(b) R 336.1331(1)(c)
2. PM10	1.68 ² pounds per hour	Hourly	RTO-SOUTH and Cure Oven portion of EU-POWDERCOAT- SOUTH (BOX)	SC V.1	R 336.1205(1)(a) and (1)(b) 40 CFR 52.21 (c) & (d)
3. PM2.5	1.68 ² pounds per hour	Hourly	RTO-SOUTH and Cure Oven portion of EU-POWDERCOAT- SOUTH (BOX)	SC V.1	R 336.1205(1)(a) and (1)(b) R 336.2803 R 336.2804

^β Pounds per 1,000 pounds of exhaust gas shall be calculated on a wet gas basis.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee, at the owner's expense, shall verify:²

- a. **PM2.5** emission rates from the RTO-SOUTH (BOX) and Cure Oven portion of EU-POWDERCOAT-SOUTH (BOX)
- b. **PM10** emission rates from the RTO-SOUTH (BOX) and Cure Oven portion of EU-POWDERCOAT-SOUTH (BOX)
- c. **PM** emission rates from the RTO-SOUTH (BOX) and Cure Oven portion of EU-POWDERCOAT-SOUTH (BOX) by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results, in a format approved by AQD (hard and .PDF copy), to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

2. The permittee shall verify the PM2.5, PM10, and PM emission rates from the RTO-SOUTH (BOX) and Cure Oven portion of EU-POWDERCOAT-SOUTH (BOX), at a minimum, every five years from the date of the most recent test. In lieu of subsequent testing, the permittee may seek approval of AQD that most recent acceptable test remains valid and representative.² (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted.² (R 336.1213(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. The permittee shall not operate any of the topcoat painting, heated flash or curing equipment (basecoat spray zones, basecoat heated flashes, clearcoat spray zones, two topcoat curing ovens) at the south paint shop (BOX) within FG-RTO-SOUTH&POWDER-OVEN-PM (BOX) unless the RTO-SOUTH is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer (RTO-SOUTH) includes maintaining all firebox zones of the south RTO at a minimum average temperature of **1,500°F** ($\geq 1,500^{\circ}\text{F}$) or at the temperature established during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency ($\text{DE} \geq 95\%$), based upon a three-hour average, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, an average temperature of **1,500°F** (3-hr average) 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 60.390)

See Appendices 3, 4, and/or 7

VII. REPORTING

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

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO-SOUTH	98.0 ²	115.0 ²	R 336.1225 R 336.2803 R 336.2804
2. SV-POWDERCOAT-CURE-OVEN-1	39.4 ²	60.5 ²	R 336.1225 R 336.2803 R 336.2804
3. SV-POWDERCOAT-CURE-OVEN-2	39.4 ²	60.5 ²	R 336.1225 R 336.2803 R 336.2804

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

FG-OLD-MACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-OLD-MACT: 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.

Emission Unit: EU-AST13

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

Storage Tanks:

1. For each existing affected storage tank with a capacity greater than 5,000 gallons but less than 50,000 gallons, the permittee shall comply with the requirements of 40 CFR 63.2343(b).² **(40 CFR 63.2343(b))**
2. For each new affected storage tank with a capacity greater than 5,000 gallons but less than 10,000 gallons, the permittee shall comply with the requirements of 40 CFR 63.2343(b).² **(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))**

1. The permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 Organic liquid, that 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.² **(40 CFR 63.2343(b)(3))**

See Appendices 3, 4, and/or 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart EEEE (NESHAP / MACT 4E) as they apply to FG-OLD-MACT. The permittee may choose an alternative compliance method not listed in FG-OLD-MACT 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.² **(40 CFR Part 70.6(a)(9), 40 CFR 63.9(j), 40 CFR Part 63, Subparts A and EEEE)**

Footnotes:

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

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

**FG-BOILER-MACT-5D
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Requirements for new and existing boilers, hot water generators and process heaters that are designed to burn gas 1 (pipeline quality sweet natural gas only) subcategory fuel with a heat input capacity of 10 MM BTU per hour or greater at major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT 5D). Units that burn liquid fuel for testing or maintenance purposes for less than a total of 48 hours per year, or that burn liquid fuel during periods of curtailment or supply interruptions are included in this definition.

Existing: Three (3) natural gas fired boilers used to generate steam for in-plant use. One has a heat input capacity of 85 MM BTU per hour and the other two each have a heat input capacity of 118 MM BTU per hour. Boilers 2 and 3 are equipped with low NOx burner technology. In addition, the boilers are equipped with continuous oxygen trim systems

New: HWG 1, 2 & 3 are 31.5 MM BTU per hour each, natural gas fired hot water generators that have continuous oxygen trim systems. HWG 4, 5 & 6 are a maximum of 18 MM BTU per hour each, natural gas fired hot water generators that have continuous oxygen trim systems.

Emission Units:

Less than 5 MMBtu/hr	NA
Equal to or greater than 5 and less than 10 MM BTU per hour	NA
Equal to or greater than 10 MM BTU per hour	Existing Boilers are EU-BOILER1 (85 MM BTU per hour), EU-BOILER2 (118 MM BTU per hour) & EU-BOILER3 (118 MM BTU per hour). New Boilers are EU-HWG1, EU-HWG2, EU-HWG3 (HWG 1 thru 3: 31.5 MM BTU per hour each), EU-HWG4, EU-HWG5 & EU-HWG6 (HWG 4 thru 6: 18 MM BTU per hour each).

POLLUTION CONTROL EQUIPMENT

Low NOx burners for Boiler Nos. 2 and 3

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall **only** burn pipeline quality sweet natural gas as defined in 40 CFR 63.7575. **(40 CFR 63.7499(l))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall conduct **a tune-up** (pentennial or quinquennial or once in five years if equipped with OTS) of each emission unit that has an **oxygen trim system** (all units are equipped with OTS) installed in FG-BOILER-MACT5D of the burners and combustion controls, as applicable, **every five years** as specified in 40 CFR 63.7540(a)(10)(i) through (vi). **(40 CFR 63.7500(d), 40 CFR 63.7540(a)(12), Table 3 of 40 CFR Part 63, Subpart DDDDD)**
 - a. Each **5-year tune-up** must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**

- b. The permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. **(40 CFR 63.7540(a)(12))**
 - c. If the unit is not operating on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
2. At all times, the permittee must operate and maintain each existing gas 1 (pipeline quality sweet natural gas **only**) boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA if burning **only** natural gas

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep a copy of each **notification** and **report** that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any **Initial Notification** or **Notification of Compliance Status** or **semiannual compliance report** that the permittee submitted. **(40 CFR 63.7555(a)(1))**
2. The permittee shall maintain on-site and submit, if requested by the AQD, the **tune-up** reports containing the information listed below.
 - a. The *concentrations of CO* in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
 - b. A description of any *corrective actions* taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
 - c. The *type and amount of fuel* used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**
3. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**
4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
5. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two-years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining three-years. **(40 CFR 63.7560(c))**

VII. REPORTING

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

2. *Semiannual* reporting of monitoring and *deviations* pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. *Annual certification of compliance* pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must submit boiler and process heater tune-up compliance reports to the appropriate AQD District Office. The reports must be postmarked or submitted by March 15th of *the year following the year in which the tune-up was performed*, and must cover the period of January 1 through December 31 of the reporting year. For new units, the first report should cover the period of startup to December 31 of the reporting year. Compliance reports must also be submitted to EPA using the Compliance and **Emissions Data Reporting Interface (CEDRI)** which is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). **(40 CFR 63.7550(b))**
5. The permittee must submit a compliance report containing the following information.
 - a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
 - b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
 - e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**
6. The permittee must submit all reports required by Table 9 of this subpart electronically using **CEDRI** that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, submit the report to the EPA Region V at the appropriate address listed in 40 CFR 63.13 and to the appropriate AQD District Office. **(40 CFR 63.7550(h)(3))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as specified in 40 CFR Part 63, Subparts A and DDDDD (MACT A & 5D). **(40 CFR Part 63, Subparts A and DDDDD)**

Footnotes:

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

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

**FG-ENG-FIREPUMP
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-ENG-FIREPUMP: **40 CFR Part 60, Subpart III** – New Source Performance Standards, for, new emergency, compression ignition (CI) reciprocating internal combustion engines (RICE), that have a maximum site rating of less than 500 brake hp. The emergency engines are for the fire pumps located in the pump house.

Emission Units: EU-ENG-PH1 (certified) and EU-ENG-PH2 (certified)

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. NMHC ^H +NOx	3.0g/bhp-hr	Hourly	Each EU in FG-ENG-FIREPUMP	SC V.1 SC VI.2 SC VI.3	40 CFR 60.4205(c) Table 4
2. CO	2.6 g/bhp-hr	Hourly	Each EU in FG-ENG-FIREPUMP	SC V.1 SC VI.2 SC VI.3	40 CFR 60.4205(c) Table 4
3. PM	0.15 g/bhp-hr	Hourly	Each EU in FG-ENG-FIREPUMP	SC V.1 SC VI.2 SC VI.3	40 CFR 60.4205(c) Table 4

^H NMHC = nonmethane hydrocarbon

II. MATERIAL LIMIT(S)

- The permittee shall burn only diesel fuel in FG-ENG-FIREPUMP with a maximum sulfur content of 15 ppm (0.0015 percent) by weight (known as Ultra-Low Sulfur Diesel or ULSD), and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.² (**R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 80.510(b)**)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee may operate each EU in FG-ENG-FIREPUMP for no more than **100** hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. Each EU in FGFIREPUMP may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the

permittee to supply non-emergency power as part of a financial arrangement with another entity.² **(40 CFR 60.4211(f))**

2. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year and maximum engine power, the permittee shall meet the following requirements for each respective EU in FG-ENG-FIREPUMP:
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions;
 - b. Change only those emission-related settings that are permitted by the manufacturer; and
 - c. Meet the requirements as specified in 40 CFR 89, 94, and/or 1068, as they apply to each respective EU in FG-ENG-FIREPUMP.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine may be considered a non-certified engine.² **(40 CFR 60.4211(a) & (c))**

3. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each respective EU in FG-ENG-FIREPUMP and shall, to the extent practicable, maintain and operate engine in a manner consistent with good air pollution control practice for minimizing emissions.² **(40 CFR 60.4211(g)(2))**
4. The permittee shall not operate any fire pump in FG-ENG-FIREPUMP for more than 8 hours per calendar day for non-emergency use.² **(40 CFR 52.21 (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install a *non-resettable hour meter* on each engine in FG-ENG-FIREPUMP.² **(40 CFR 60.4209(a))**

V. TESTING/SAMPLING

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

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

No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(40 CFR 60.4211(g)(2), 40 CFR 60.4212)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(40 CFR 60.4211, 40 CFR 60.4214)**

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

The permittee shall keep all records on file and make them available to the Department upon request.²
(40 CFR 60.4211)

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FG-ENG-FIREPUMP:
 - a. For certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.2.
 - b. For uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.3, and maintenance activities.

The permittee shall keep all records on file and make them available to the Department upon request.²
(40 CFR 60.4211)

4. The permittee shall keep, in a satisfactory manner, test reports for each EU in FG-ENG-FIREPUMP required by SC V.1 on file at the facility. The permittee shall make the records available to the Department upon request.
(R 336.1213)
5. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each EU in FG-ENG-FIREPUMP, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each EU in FGFIREPUMP, including what classified the operation as emergency.²
(40 CFR 60.4211, 40 CFR 60.4214)
6. The permittee shall monitor and record the hours of operation during non-emergency use for each EU in FG-ENG-FIREPUMP on a calendar day basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each EU in FGFIREPUMP, including what classified the operation as emergency.² **(40 CFR 52.21(c) & (d))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. For each engine in FG-ENG-FIREPUMP that is an emergency stationary engine with a site rating of more than 100 brake hp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR 60.4211(f)(3)(i), the permittee must submit an annual report according to the requirements below and as specified in 40 CFR 60.4214(d):² **(40 CFR 60.4214(d))**
 - a. The report must contain the following information:
 - i. Company name and address where the engine is located.

- ii. Date of the report and beginning and ending dates of the reporting period.
 - iii. Engine site rating and model year.
 - iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - v. Hours operated for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii).
 - vi. Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii).
 - vii. Hours spent for operation for the purpose specified in 40 CFR 60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4211(f)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
 - viii. If there were no deviations from the fuel requirements in 40 CFR 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
 - ix. If there were deviations from the fuel requirements in 40 CFR 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken
- b. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
 - c. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-ENG-PH1	7.5 ²	25 ²	40 CFR 52.21 (c) & (d)
2. SV-ENG-PH2	7.5 ²	25 ²	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal Standard of Performance for New Stationary Sources , as specified in 40 CFR Part 60, Subpart A and Subpart IIII, for Stationary Reciprocating Internal Combustion Engines as they apply to each EU in FG-ENG-FIREPUMP.² **(40 CFR Part 60, Subparts A and IIII)**

Footnotes:

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

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

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

DESCRIPTION

FG-MACT-ZZZZ-EXISTING-EMERGENCY CI > 500 HP: Existing CI Engines located at a Major Source > 500 HP, Emergency

Emission Unit: EU-ENG-GENASSY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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)(1)(ii))**
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)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip each engine with *non-resettable hours meter*. **(R 336.1213(3)(b)(ii))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. For each CI RICE engine/s the permittee shall keep in a satisfactory manner, records of hours of operation using non-resettable hours 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. **(R 336.1213(3))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, 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:

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

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

**FG-ENG-DATACTR
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-ENG-DATACTR: This flexible group consolidates NSPS 4I and MACT 4Z requirements as noted below:

FG-NSPS IIII EMERGENCY PRE-2007 < 10 I/CYL: This flexible group includes new emergency compression ignition (CI) stationary reciprocating internal combustion engines (RICE)) that have a maximum site rating of greater than 500 brake horsepower (HP) and subject to 40 CFR 60, Subpart IIII.

FG-63-4Z-M/N/ClorSI/E/NG/>500: **40 CFR Part 63, Subpart ZZZZ** - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, new or reconstructed, either combustion ignition or spark ignition, emergency RICE greater than 500 brake hp.

Emission Unit: EU-ENG-DATACTR (4091 HP, CI, built date 12/5/2006)

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. NOx	9.2 g/kW-hr 6.9 g/hp-hr	Hourly*	EU-ENG-DATACTR	SC VI.2	40 CFR 60.4205(a) Table 1
2. HC	1.3 g/kW-hr 1.0 g/hp-hr	Hourly*	EU-ENG-DATACTR	SC VI.2	40 CFR 60.4205(a) Table 1
3. CO	11.4 g/kW-hr 8.5 g/hp-hr	Hourly*	EU-ENG-DATACTR	SC VI.2	40 CFR 60.4205(a) Table 1
4. PM	0.54 g/kW-hr 0.40 g/hp-hr	Hourly*	EU-ENG-DATACTR	SC VI.2	40 CFR 60.4205(a) Table 1

* Hourly based upon 3-run average according to AQD approved Test Protocol

II. MATERIAL LIMIT(S)

1. The permittee shall burn **only** diesel fuel, in EU-ENG-DATACTR with the maximum sulfur content of 15 ppm (15 ppm S ULSD, 0.0015 percent sulfur) by weight. **(40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. There is no limit on the use of EU-ENG-DATACTR units in emergency situations. **(40 CFR 60.4211(f)(1))**
2. The permittee may operate EU-ENG-DATACTR 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 calendar year. EU-ENG-DATACTR may operate up to **50** hours per calendar year in non-

emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. The 50 hours per calendar 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 60.4211(f))**

3. Each engine in FG-ENG-DATACTR shall not be contractually obligated to be available for more than 15 hours per calendar year. **(40 CFR 63.6590(b)(1)(i))**
4. If the permittee purchased a **certified engine** in FG-ENG-DATACTR as specified in NSPS 4I and intends to operate as such, the permittee shall do all of the following, except as permitted under paragraph (g) of this section: **(40 CFR 60.4211(a))**
 - a. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - b. Change only those emission-related settings that are permitted by the manufacturer; and
 - c. Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply.
5. If the permittee fails to operate the engine as certified engine as stated above, the engine is deemed to be non-certified and the permittee shall conduct performance testing every 8,760 hours of engine operation or 3 years (triennial), whichever comes first. **(40 CFR 60.4211(a))**
6. The permittee shall operate an engine in FG-ENG-DATACTR only as an *emergency stationary internal combustion engine* as specified in 40 CFR 60.4219. **(40 CFR 60.4219)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EU-ENG-DATACTR with **non-resettable hours meters** to track the operating hours. **(R 336.1213(3))**

V. TESTING/SAMPLING

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

1. The permittee shall demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (b)(5) of 40 CFR 60.4211(b). **(40 CFR 60.4211(b) 40 CFR Part 60, Subpart IIII)**

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 each emission unit listed in FG-ENG-DATACTR for each calendar month. **(R 336.1213(3))**
2. The permittee shall keep, in a satisfactory manner, records of testing required in SC V.1 or **manufacturer certification documentation** indicating that EU-ENG-DATACTR meets the applicable emission limitations contained in the federal Standards of Performance for New Stationary Sources 40 CFR Part 60, Subpart IIII. If EU-ENG-DATACTR becomes uncertified then the permittee must also keep records of a maintenance plan and maintenance activities. The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4211(b) and (g))**
3. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EU-ENG-DATACTR, on a monthly and calendar year basis, in a manner acceptable to the District Supervisor, Air Quality Division. The permittee shall document how many hours are spent for emergency operation of EU-ENG-DATACTR, including what classified the operation as emergency and how many hours are spent for non-emergency operation. **(R 336.1213(3))**

4. The permittee shall keep, in a satisfactory manner, *fuel supplier certification records* or fuel sample test data, for each delivery of diesel fuel oil used in EU-ENG-DATACTR, demonstrating that the fuel sulfur content meets the requirement of 40 CFR 80.510(b). The certification or test data shall include the name of the oil supplier or laboratory, and the sulfur content of the fuel oil. **(R 336.1402(1), 40 CFR 80.510(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit all applicable *notifications* specified in 40 CFR 63.7(b) and (c), 63.8 (e), (f)(4), and (f)(6), and 63.9(b)through (e), (g), and (h) by the dates specified. **(40 CFR 63.6645(a)(3) and (f))**
5. The permittee shall submit the following notifications to the Department within 120 days of becoming subject to the relevant standard, in accordance with 40 CFR 63.9(b)(2):
 - a. The name and address of the owner or operator;
 - b. The address (i.e., physical location) of the affected source;
 - c. An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date;
 - d. A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; and
 - e. A statement of whether the affected source is a major source or an area source. **(40 CFR 63.6645(f), 40 CFR Part 63, Subparts A and ZZZZ)**

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:

NA

IX. OTHER REQUIREMENT(S)

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 IIII, as they apply to each affected emergency engine **(40 CFR Part 60, Subparts A and IIII)**
2. 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 ZZZZ, for Stationary Reciprocating Internal Combustion Engines by the initial compliance date. **(40 CFR 63.6595(a)(2), 40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

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

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

DESCRIPTION

FG-NSPS JJJJ EMERGENCY > 100 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 (≥ 100 HP) but less than 500 (< 500 HP) and subject to 40 CFR 60, Subpart JJJJ (NG SI RICE NSPS 4J).

Emission Units: EU-ENG-NORTH-PSHOP1 (383 HP, 05/01/2013, certified) and EU-ENG-NORTH-BSHOP (335 HP, 05/01/2013, certified)

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 ² g/hp-hr or 160 ² ppmvd @15% O ₂	Hourly*	EU-ENG-NORTH- PSHOP1 EU-ENG-NORTH- PSHOP2	SC V.1 or SC V.2 or SC V.3	40 CFR 60.4233(e) Table 1
2. CO	4.0 ² g/hp-hr or 540 ² ppmvd @15% O ₂	Hourly*	EU-ENG-NORTH- PSHOP1 EU-ENG-NORTH- PSHOP2	SC V.1 or SC V.2 or SC V.3	40 CFR 60.4233(e) Table 1
3. VOC	1.0 ² g/hp-hr or 86 ² ppmvd @15% O ₂	Hourly*	EU-ENG-NORTH- PSHOP1 EU-ENG-NORTH- PSHOP2	SC V.1 or SC V.2 or SC V.3	40 CFR 60.4233(e) Table 1

* Hourly based upon 3-run average according to AQD approved Test Protocol

II. MATERIAL LIMIT(S)

1. The permittee shall burn **only** pipeline quality sweet natural gas.² (**R336.1201(3), 40 CFR, 60.4248**)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee may operate EU-ENG-NORTH-PSHOP1 & EU-ENG-NORTH-PSHOP2 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. EU-ENG-NORTH-PSHOP1 and EU-ENG-NORTH-PSHOP2 may operate 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.² **(40 CFR 60.4243(d))**

2. The permittee shall operate and maintain EU-ENG-NORTH-PSHOP1 and EU-ENG-NORTH-PSHOP2 such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine.² **(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 EU-ENG-NORTH-PSHOP1 and EU-ENG-NORTH-PSHOP2:² **(40 CFR 60.4243(b)(1))**
 - 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.
4. The permittee shall not operate any engine in FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP for more than 8 hours per calendar day for non-emergency use.² **(40 CFR 52.21 (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. EU-ENG-NORTH-PSHOP1 & EU-ENG-NORTH-PSHOP2 shall be equipped with a non-resettable hour meter.² **(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.² **(40 CFR 60.4243(g))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep records of the **hours of operation** for each emission unit EU-ENG-NORTH-PSHOP1 and EU-ENG-NORTH-PSHOP2 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.² **(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.² **(40 CFR 60.4245(a)(1))**
3. The permittee shall keep records of **maintenance** conducted to demonstrate compliance.² **(40 CFR 60.4243(a)(2), 40 CFR 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.² **(40 CFR 60.4245(a)(3))**
5. If EU-ENG-NORTH-PSHOP1 and EU-ENG-NORTH-PSHOP2 are not a certified engine or a certified engine is operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards.² **(40 CFR 60.4245(a)(4))**

- The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each EU in FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP, on a calendar day basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of each EU in FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP, including what classified the operation as emergency.² **(40 CFR 52.21(c) & (d))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-ENGPNT1	7.5 ²	10 ²	40 CFR 52.21 (c) & (d)
2. SV-ENGBOD	7.5 ²	10 ²	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

- 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 (NSPS A & 4J), as they apply to each affected emergency engine.² **(40 CFR Part 60, Subparts A and JJJJ)**

Footnotes:

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

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

**FG-NSPS JJJJ EMERGENCY > 500 HP
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-NSPS JJJJ EMERGENCY > 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 500 brake horsepower (HP) and subject to 40 CFR 60, Subpart JJJJ (NSPS 4J). The engines (3) are **not certified per NSPS 4J**. All SI RICE engines are pipeline quality sweet natural gas **only** fired.

Emission Units: EU-ENG-PSHOP-NC-701HP(05/01/2013 after July 1, 2008), EU-ENG-GEN1-SOUTH 01/19/2018 after July 1, 2008) & EU-ENG-GEN2-SOUTH (01/19/2018 after July 1, 2008). All (3) engines are **not certified** per NSPS 4J.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. NO _x ^θ	2.0 ² g/HP-hr OR 160 ² ppmvd	Hourly	Each engine in FG-NSPS JJJJ EMERGENCY > 500 HP	SC VI.3 OR SC V.1	40 CFR 60.4233(e) (Table 1)
2. CO ^θ	4.0 ² g/HP-hr OR 540 ² ppmvd	Hourly	Each engine in FG-NSPS JJJJ EMERGENCY > 500 HP	SC VI.3 OR SC V.1	40 CFR 60.4233(e) (Table 1)
3. VOC ^{θ,β}	1.0 ² g/HP-hr OR 86 ² ppmvd	Hourly	Each engine in FG-NSPS JJJJ EMERGENCY > 500 HP	SC VI.3 OR SC V.1	40 CFR 60.4233(e) (Table 1), R 336.2810

^θ Owners and operators of stationary **non-certified** SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O₂. (See Table 1 to 40 CFR 60 Subpart JJJJ.). All (3) engines are **not certified** per NSPS 4J and **triennial** (every 8,760 hours of engine operation) emissions testing is required.

^β For purposes of this emission limit, when calculating emissions of VOC, emissions of *formaldehyde* should not be included. (See Table 1 to 40 CFR 60 Subpart JJJJ.)

II. MATERIAL LIMIT(S)

- The permittee shall burn **only** pipeline quality sweet natural gas in each engine in FG-NSPS JJJJ EMERGENCY > 500 HP as defined in 40 CFR 60.4248.² (**R 336.1201(3), 40 CFR 60.4248**)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee may operate EU-ENG-PSHOP-NC-701HP 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. EU-ENG-PSHOP-NC-701HP may operate 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.² **(40 CFR 60.4243(d))**

2. The permittee may operate EU-ENG-GEN1-SOUTH and EU-ENG-GEN2-SOUTH for no more than **100** hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. These hours are included as part of the **500** hour per calendar year individual and **600** hour per calendar year combined limits listed under SC III.3 below. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year.² **(40 CFR 60.4243(d))**
3. The permittee shall not operate EU-ENG-GEN1-SOUTH and EU-ENG-GEN2-SOUTH for more than **600** hours per calendar year combined and either engine for more than 500 hours per calendar year.² **(R 336.1205, R 336.2803, R 336.2804, R 336.2810)**
4. The permittee shall operate and maintain each engine in FG-NSPS JJJJ EMERGENCY > 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.² **(40 CFR 60.4243(b))**
5. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each engine in FG-NSPS JJJJ EMERGENCY > 500 HP and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions.² **(40 CFR 60.4243(b)(2))**
6. The permittee shall not operate EU-ENG-SHOP-NC-701HP for more than 8 hours per calendar day for non-emergency purposes. Hours of operation for this EU while preparing for and conducting emission tests required by this permit or applicable standard are not subject to the 8 hr/day limit.² **(40 CFR 52.21 (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Each engine in FG-NSPS JJJJ EMERGENCY > 500 HP shall be equipped with a non-resettable hour meter.² **(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.² **(40 CFR 60.4243(g))**

V. TESTING/SAMPLING

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

1. For any engine that is a *non-certified engine* or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee must demonstrate compliance as follows:
 - a. Conduct an **initial performance test** to demonstrate compliance with the applicable emission standards in SC I.1, I.2, and I.3, within one year after each engine in FG-NSPS JJJJ EMERGENCY > 500 HP is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within one year after changing emission-related settings in a way that is not permitted by the manufacturer.
 - b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.

- c. Conduct subsequent performance testing **every 8,760 hours** of engine operation or **every three (triennial) years**, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.

If a performance test is required, no less than 30 days prior to testing, a complete test plan shall be submitted to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 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 each month and each calendar year for each engine in FG-NSPS JJJJ EMERGENCY > 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.² **(40 CFR 60.4245(b))**
2. The permittee shall keep a record of the combined hours of operation for each month and each calendar year for EU-ENG-GEN1-SOUTH and EU-ENG-GEN2-SOUTH.² **(R 336.1205)**
3. The permittee shall keep records of all notifications submitted to comply with this subpart and all documentation supporting any notification.² **(40 CFR 60.4245(a)(1))**
4. The permittee shall keep, in a satisfactory manner, the following records for each engine in FG-NSPS JJJJ EMERGENCY > 500 HP:² **(40 CFR 60.4243, 40 CFR 60.4245)**
 - a. If non-certified: The permittee shall keep records of testing required in SC V.1. 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))**
 - b. If non-certified: The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b))**
 - c. If any engine in FG-NSPS JJJJ EMERGENCY > 500 HP is not a certified engine or a certified engine is operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. **(40 CFR 60.4245(a)(4))**
5. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EU-ENG-PSHOP-NC-701HP on a calendar day, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation for EU-ENG-PSHOP-NC-701HP, including what classified the operation as emergency.² **(40 CFR 52.21 (c) & (d))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV- ENG-GEN1-SOUTH	7.5 ²	15.0 ²	R 336.1225 R 336.2803 R 336.2804
2. SV- ENG-GEN2-SOUTH	7.5 ²	15.0 ²	R 336.1225 R 336.2803 R 336.2804
3. SV-ENGPNT2	7.5 ²	10 ²	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

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 (NSPS A & 4J), as they apply to each affected emergency engine.² **(40 CFR Part 60, Subparts A and JJJJ)**
2. 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 (NESHAP / MACT A & 4Z)- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.² **(40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

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

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

**FG-SOBL
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-SOBL: Spray-on Bedliner (SOBL) facility where fully assembled and painted trucks from the main assembly plant will be routed into one of several booths in which bedliner materials will be robotically sprayed onto the truck beds. Raw materials include cleaning solvents, a bonding agent, and a two-part (2-part) polyurethane resin. Natural gas-fired equipment will be used for process and space heating. This equipment is located at 7566 Metropolitan Parkway, directly across the street from the South Paint Shop (BOX) at the main assembly plant.

Emission Units: EU-SOBL-APPLICATION and EU-SOBL-NAT-GAS

POLLUTION CONTROL EQUIPMENT

Two-stage dry filtration system to control particulate emissions from the spray-on bedliner application bays.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC and methyl acetate combined	8.8 ² tpy	12-month rolling time period as determined at the end of each calendar month	FG-SOBL	SC VI.2 SC VI.3	R 336.1224 R 336.1702(a) R 336.2810

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials and shall store them in closed containers. The permittee shall dispose of all waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.2810**)
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.² (**R 336.1224, R 336.1370**)
3. The permittee shall handle all VOC, methyl acetate and/or HAP containing materials, including solvents, bonding agents, resins and coatings in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary.² (**R 336.1224, R 336.1225, R 336.1702(a), R 336.2810**)
4. The permittee shall burn **only** pipeline quality natural gas in the EU-SOBL-NAT GAS-portion of FG-SOBL.² (**R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810**)
5. The total natural gas usage for the EU-SOBL-NAT-GAS portion of FG-SOBL shall not exceed 176.0 million SCF per year on a 12-month rolling time period basis as determined at the end of each calendar month.² (**R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810**)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any of the spray-on bedliner application bays in FG-SOBL unless all respective **exhaust filters** are installed, maintained and operated in a satisfactory manner.² **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain each spray-on bedliner application bay in FG-SOBL with robotic airless high-pressure applicators or comparable technology with equivalent transfer efficiency.² **(R 336.1205, R 336.1702(a), R 336.2810)**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1224, R 336.1225, R 336.1702(a), R 336.2810)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1224, R 336.1225, R 336.1702, R 336.2810)**
3. The permittee shall keep the following information on a monthly basis for FG-SOBL:²
 - a. Gallons of each material used.
 - b. VOC and methyl acetate content of each material as applied.
 - c. VOC and methyl acetate mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d. VOC and methyl acetate mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2810)**

4. The permittee shall keep in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million cubic feet for the EU-SOBL NAT GAS portion of FG-SOBL. The permittee shall keep all records on file and make them available to the Department upon request.² **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c) & (d))**
5. The permittee shall monitor the condition each particulate control system through monthly visual inspections of each spray-on bedliner application bay in FG-SOBL. The permittee shall keep records of visual inspections of each two-stage dry filtration system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request.² **(R 336.1224, R 336.1301, R 336.1910)**

See Appendices 3, 4, and/or 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-SOBL1	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
2. SV-SOBL2	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
3. SV-SOBL3	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
4. SV-SOBL4	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
5. SV-SOBL5	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
6. SV-SOBL6	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804
7. SV-SOBL7	42 ²	47 ²	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII (NESHAP / Auto MACT 4I), as they apply to FG-SOBL as an effected source.² **(40 CFR Part 63, Subparts A and Subpart IIII)**

Footnotes:

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

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

**FGRULE287(2)(c)
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FGRULE287(2)(c): Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 287(2)(c). Emission units installed/modified before December 20, 2016, may show compliance with Rule 287 in effect at the time of installation/modification.

Emission Units installed on or after December 20, 2016: NA

Emission Units installed prior to December 20, 2016: EU-FINAL-REPAIR

POLLUTION CONTROL EQUIPMENT

Dry filter system

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/Operating Scenario	Equipment	Underlying Applicable Requirement
1. Coatings	200 Gallons/month (minus water as applied)	Calendar month	Each emission unit	R 336.1287(2)(c)(i)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- Any exhaust system installed on or after December 20, 2016, that serves only coating spray equipment shall be equipped with a **dry filter** control or water wash control which is installed, maintained, and operated in accordance with the manufacturer’s specifications, or the permittee develops a plan which provides to the extent practicable for the maintenance and operation of the equipment in a manner consistent with good air pollution control practices for minimizing emissions. All emission units installed before December 20, 2016, with an exhaust system that serves only coating spray equipment must have a properly installed and operated particulate control system. (R 336.1213(2), R 336.1287(2)(c)(ii), R 336.1910)

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the EGLE, AQD Rule 287(2)(c), Permit to Install Exemption Record form (EQP 3562) or in a format acceptable to the AQD District Supervisor. **(R 336.1213(3))**
 - a. Volume of coating used, as applied, minus water, in gallons. **(R 336.1287(2)(c)(iii))**
 - b. Documentation of any filter replacements or maintenance of water wash control for exhaust systems serving coating spray equipment or other documentation included in a plan developed by the owner or operator of the equipment. **(R 336.1213(3))**

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FGRULE290 FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rule 278, Rule 278a and Rule 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.

Emission Units installed on or after December 20, 2016: (EU-RULE290 and any future emission unit that meets the requirements of this flexible group.)

NA

Emission Units installed prior to December 20, 2016: EU-ENG-DATACTR & EU-ENG-GEN-ASSY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds (VOC) 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(2)(a)(i))**
2. Any emission unit for which CO₂ equivalent emissions are not more than 6,250 tons per month and for which the total uncontrolled or controlled emissions of all other 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(2)(a)(ii))**
 - a. For toxic 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 micrograms 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(2)(a)(ii)(A))**
 - b. For toxic 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(2)(a)(ii)(B))**
 - c. The emission unit shall not emit any toxic 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(2)(a)(ii)(C))**
 - d. For total mercury, the uncontrolled or controlled emissions shall not exceed 0.01 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(D))**
 - e. For lead, the uncontrolled or controlled emissions shall not exceed 16.7 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(E))**
3. Any emission unit that emits only particulate air contaminants without initial risk screening levels and other air contaminants that are exempted under Rule 290(2)(a)(i) or Rule 290(2)(a)(ii), if all the following provisions are met: **(R 336.1290(2)(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 exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(2)(a)(iii)(A))**
- b. The visible emissions from the emission unit are not more than 5% opacity in accordance with the methods contained in Rule 303. **(R 336.1290(2)(a)(iii)(B))**
- c. The initial threshold screening level for each particulate toxic air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(2)(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)**
2. The following requirements apply to emission units installed on or after December 20, 2016, utilizing control equipment:
 - a. An air cleaning device for volatile organic compounds shall be installed, maintained, and operated in accordance with the manufacturer's specifications. Examples include the following: **(R 336.1290(2)(b)(i), R 336.1910)**
 - i. Oxidizers and condensers equipped with a continuously displayed temperature indication device.
 - ii. Wet scrubbers equipped with a liquid flow rate monitor.
 - iii. Dual stage carbon absorption where the first canister is monitored for breakthrough and replaced if breakthrough is detected.
 - b. An air cleaning device for particulate matter shall be installed, maintained, and operated in accordance with the manufacturer's specifications or the permittee shall develop a plan that provides to the extent practicable for the maintenance and operation of the equipment in the manner consistent with good air pollution control practices for minimizing emissions. It shall also be equipped to monitor appropriate indicators of performance, for example, static pressure drop, water pressure, and water flow rate. **(R 336.1290(2)(b)(ii), R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the EGLE, AQD Rule 290; Permit to Install Exemption Record form (EQP 3558) or in a format that is acceptable to the AQD District Supervisor. **(R 336.1213(3))**
 - a. Records identifying each air contaminant that is emitted. **(R 336.1213(3))**

- b. Records identifying if each air contaminant is controlled or uncontrolled. **(R 336.1213(3))**
 - c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. **(R 336.1213(3))**
 - d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(2)(a)(ii) and (iii). **(R 336.1213(3))**
 - e. Records of 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. Volatile organic compound emissions from units installed on or after December 20, 2016, shall be calculated using mass balance, generally accepted engineering calculations, or another method acceptable to the AQD District Supervisor. **(R 336.1213(3), R 336.1290(2)(d))**
 - f. Records are maintained on file for the most recent two-year period and are made available to the department upon request. **(R 336.1213(3), R 336.1290(2)(e))**
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(2)(c), R 336.1213(3))**
 - b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(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(2)(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. **(R 336.1213(3))**

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT 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. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/ department	Michigan Department of Environment, Great Lakes, and Energy	gr	Grains
EGLE	Michigan Department of Environment, Great Lakes, and Energy	HAP	Hazardous Air Pollutant
EU	Emission Unit	Hg	Mercury
FG	Flexible Group	hr	Hour
GACS	Gallons of Applied Coating Solids	HP	Horsepower
GC	General Condition	H ₂ S	Hydrogen Sulfide
GHGs	Greenhouse Gases	kW	Kilowatt
HVLP	High Volume Low Pressure*	lb	Pound
ID	Identification	m	Meter
IRSL	Initial Risk Screening Level	mg	Milligram
ITSL	Initial Threshold Screening Level	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	NMOC	Non-methane Organic Compounds
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MSDS	Material Safety Data Sheet	ng	Nanogram
NA	Not Applicable	PM	Particulate Matter
NAAQS	National Ambient Air Quality Standards	PM10	Particulate Matter equal to or less than 10 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	%	Percent
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

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

Appendix 2. Schedule of Compliance

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

Appendix 3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in **FG-CAM** special condition VI.4

1. The permittee shall keep records of *maintenance inspections* for the regenerative thermal oxidizers (RTO-NORTH & RTO-SOUTH) which include the dates and results of the inspections and the dates and reasons for repairs. The following items listed below shall be inspected for each control device as follows: **(64.6(c)(1)(i),(ii))**
 - a. *Validation* of the thermocouple accuracy or recalibration a minimum of once every 12 months. The thermocouple(s) can be replaced in lieu of validation.
 - b. Perform heat exchanger/heat transfer *media inspection* a minimum of once every 18 months.*
 - c. Perform an inspection of the *valve seals condition* once every 18 months and verify valve *timing/synchronization* a minimum of once every 18 month.*

*The requirement to address to this observation is satisfied if a performance test (i.e., stack test) has been performed on the control device within the prior 18 month period.

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 relates 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-B7248-2014a. 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)
PTI No. 27-17 dated May 30, 2017	The permit for south paint shop (Box). The ROP was not revised.	EU-PHOSPHATE BOX EU-E COAT BOX EU-SEALER BOX EU-POWDERCOAT BOX EU-TOPCOAT 1 BOX

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
		EU-TOPCOAT 2 BOX EU-MISC SOLVENTS BOX EU-SPOT REPAIR 1 BOX EU-HEAVY REPAIR BOX EU-AST PRG BOX EU-HWG 4 EU-HWG 5 EU-HWG 6 EU-ENG BOX GEN 1 EU-ENG BOX GEN 2 EU-SOBL APPLICATION EU-SOBL NATGAS EU-WAREHOUSE NAT GAS FG-TOPCOAT BOX FG-REPAIR BOX FG-NG BOX FG-CONTROL FG-AUTO MACT FG-BOILER MACT 5D FG-PAINT SHOP BOX LINE FG-RTO and POWDER OVEN PM FG-NSPS JJJJ FG-SOBL
The above EM / FG names are as is in the PTI.		
PTI No. 27-17A dated November 2, 2017	The PTI revisions seek modifications to equipment associated with the new south automotive paint line, the new spray-on truck bedliner (SOBL) facility, and the new storage warehouse. This project is addressed in Permit to Install (PTI) Application No. 27-17A. Change RTO-SOUTH design capacity from 16.5 million British thermal units per hour to 28 MMBtu/hr. RTO-SOUTH would use "low NOx" burners. Changes to SOBL. Change Warehouse natural gas combustion units from 15 MMBtu/hr to 6.5 MMBtu/hr. Change SOBL stacks to 47 feet from 50 feet.	Same as PTI No. 27-17
PTI No. 27-17B dated April 6, 2018	Change sizing for the two emergency engines to 770 HP instead from 500 HP.	Same as PTI No. 27-17
PTI No. 227-10C dated December 9, 2014	Minor change to delete the stack/vent restriction for the new body shop that says all emissions shall be to the in-plant environment. Emissions from approximately 14 MMBtu/hr of the natural gas fired processes of the combined 111 MMBtu/hr that were installed with the original project are exhausted to the ambient air.	EUSANDING EUSEALERS & ADHESIVES – FBP (frame, body, & paint) EUECOAT EUFLASHPRIMER EUTOPCOAT1 EUTOPCOAT2 EUTOPCOAT3 EUTOUCHUP EUFINALSEALER EUBLACKOUT EUGASFILL EUWINDSHIELDFILL

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
		EUPAINTSPOTREPAIR EUWIPE EUPURGECLEAN EUAST1 EUAST2 EUAST3 EUAST4 EUAST5 EUAST6 EUAST7 EUAST8 EUAST9 EUAST10 EUAST11 EUAST12 EUAST13 EUDC1 EUAST15 EUNPS1 EUNPS4 EUNPS5 EUNPS7 EUBOILER1 EUBOILER2 EUBOILER3 EUDEADNER EUNEWBODYSHOP FG-FACILITY FG-CONTROLS FG-BOILERS FG-MACT FG-OLDFACILITY
The above EM / FG names are as is in the PTI.		
PTI No. 227-10D dated October 20, 2016	PTI # 227-10C was not to be voided, the equipment covered by 227-10C is the existing north paint shop for CAB. PTI # 227-10D only covers the south paint shop for the truck box.	Same as PTI No. 27-17 dated May 30, 2017

Note: MI-ROP-B7248-2014 dated November 18, 2014 (revised to MI-ROP-B7248-2014a dated January 15, 2015) for original north plant. PTI No. 227-10D dated October 20, 2016, for Box or south plant. PTI No. 27-17 dated May 30, 2017, for SOBL. PTI No. 27-17B dated April 6, 2018, to streamline for ROP.

The following table lists the ROP amendments or modifications issued after the effective date of ROP No. MI-ROP B7248-2020.

Permit to Install Number	ROP Revision Application Number - Issuance Date	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
17-22	202200110 / August 3, 2022	Incorporate PTI No. 17-22 into the ROP, which was to update the PM10 and PM2.5 emission limits for the combined stack from EU-SPOT-REPAIR1-SOUTH (BOX) and EU-	EU-SPOT-REPAIR1-SOUTH, EU-SPOT-REPAIR2-SOUTH, EU-ENG-PH1, EU-ENG-PH2, EU-ENG-NORTH-PSHOP1,

Permit to Install Number	ROP Revision Application Number - Issuance Date	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
		<p>SPOT-REPAIR2-SOUTH (BOX) from 0.052 pph to 0.25 pph. There are no changes to either the physical configuration of the process or to any other existing emission limits.</p> <p>The changes do not change the facility status as a Major source for PSD, Nonattainment, and Title V source.</p> <p>Additionally, the PTI placed an operational limit, recordkeeping requirement, and stack/vent restrictions to the emergency engines in FG-ENG-FIREPUMP, FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP, and FG-NSPS JJJJ EMERGENCY > 500 HP, which limited each emergency engine to 8 hours per calendar day for non-emergency purposes.</p>	<p>EU-ENG-NORTH-BSHOP, EU-ENG-PSHOP-NC-701HP, FG-REPAIR-SOUTH, FG-ENG-FIREPUMP, FG-NSPS JJJJ EMERGENCY > 100 BUT < 500 HP, FG-NSPS JJJJ EMERGENCY > 500 HP</p>

Appendix 7. Emission Calculations

Specific emission calculations to be used with monitoring, testing or recordkeeping data are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

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

B. Other Reporting

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