

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

EFFECTIVE DATE: April 16, 2024

ISSUED TO

**Universal Coating, Inc.**

State Registration Number (SRN): N7256

LOCATED AT

5204 Energy Drive, Flint, Michigan County, Michigan 48505

**RENEWABLE OPERATING PERMIT**

Permit Number: MI-ROP-N7256-2024

Expiration Date: April 16, 2029

Administratively Complete ROP Renewal Application Due Between  
October 16, 2027, and October 16, 2028

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-N7256-2024

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

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Robert Byrnes, Lansing District Supervisor

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## AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of 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).<sup>2</sup> **(R 336.1370)**
10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

### **Emission Limits**

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

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

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

### **Testing/Sampling**

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

## Monitoring/Recordkeeping

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

## Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**
19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The annual compliance certification (pursuant to Rule 213(4)(c)) shall be submitted to the USEPA through the USEPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through CDX (<https://cdx.epa.gov/>), unless it contains confidential business information then use the following address: 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.<sup>2</sup> **(R 336.1912)**

## Permit Shield

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

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

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

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

## Revisions

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

## Reopenings

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

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

#### **Footnotes:**

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

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

## **B. SOURCE-WIDE CONDITIONS**

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

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

## SOURCE-WIDE CONDITIONS

### DESCRIPTION

All process equipment at the stationary source including equipment covered by other permits, grandfathered equipment, and exempt equipment.

### POLLUTION CONTROL EQUIPMENT

Regenerative Thermal Oxidizer (FG-RTO)

#### I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Ethylbenzene (CAS No. 100-41-4)	Less than 8.9 tpy <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	SOURCE-WIDE	SC VI.1, SC VI.2, SC VI.3	R 336.1225(2)

#### 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))

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> (R 336.1225, R 336.1702)
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.<sup>2</sup> (R 336.1225, R 336.1702)
3. The permittee shall keep the following information on a calendar month basis for the Source (Source-Wide):
  - a. Gallons (with water) of each ethyl benzene (CAS No. 100-41-4) containing material used.

- b. Where applicable, the gallons (with water) of each ethyl benzene (CAS No. 100-41-4) containing material reclaimed.
- c. The ethyl benzene (CAS No. 100-41-4) content (with water) in pounds per gallon of each material used.
- d. Ethyl benzene (CAS No. 100-41-4) mass emission calculations determining the monthly emission rate in tons per calendar month.
- e. Ethyl benzene (CAS No. 100-41-4) mass emission calculation 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 using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1225(2))**

## **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. All records required by SC VI.3 of FG-PHOSPHATELINES; SC VI.3 of FG-DIPSPINS; SC VI.3 of FG-H1/H2/H3; and SC VI.4 and SC VI.5 of FG-RTO shall be submitted semi-annually. The records shall be submitted to the AQD District Supervisor in an acceptable format by September 15, for the semi-annual reporting period January 1 to June 30, and by March 15, for the semiannual reporting period July 1 to December 31.<sup>2</sup> **(R 336.1225, R 336.1702)**
- 5. The permittee shall notify the Department if a change in land use occurs for property classified as industrial or as a public roadway, where this classification was relied upon to demonstrate compliance with Rule 225(2). The permittee shall submit the notification to the AQD District Supervisor, within 30 days of the actual land use change. Within 60 days of the land use change, the permittee shall submit to the AQD District Supervisor a plan for complying with the requirements of Rule 225(1). The plan shall require compliance with Rule 225(1) no later than one year after the due date of the plan submittal.<sup>1</sup> **(R 336.1225(4))**

See Appendix 8

## **VIII. STACK/VENT RESTRICTION(S)**

NA

## **IX. OTHER REQUIREMENT(S)**

NA

### **Footnotes:**

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

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

### 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-SANDBLAST	Sandblast cabinets using a variety of blast media, and a polisher, used to pre-treat metal parts. All sandblast cabinets have particulate control.	05-01-2005 / 01-01-2010 / 01-01-2012	NA
EU-METALREPAIR	Welding units, metal punch, grinder, drill press, etc. all used to repair metal parts.	05-01-2005	NA
EU-HEATING	Natural gas-fired comfort furnaces rated at 0.2 MMBTU/hr and air makeup units rated at 2.5 MMBTU/hr used for indoor air heating and ventilation.	05-01-2005	NA
EU-BURNOFF	A batch type natural gas-fired burnoff oven with a secondary chamber or afterburner, used to remove cured paints, oil or grease from metal parts by thermal decomposition in a primary chamber.	05-01-2005	NA
EU-DEGREASER	One Baron-Blakeslee MVR-425 batch vapor degreaser with freeboard refrigeration device and working-mode cover.	05-01-2005	FG-MACT T
EU-POWDERCOAT	One (1) manual powder coating application booth with a filtration control system.	05-01-2005	FG-MACT MMMM, FG-MACT PPPP
EU-PHOSPHATE1	A phosphate pre-treatment line for metal parts consisting of sixteen (16) tanks and one natural gas fired dryer. The tanks are heated by three (3) natural gas-fired boilers. Note: the 3 steam boilers are subject to 40 CFR 63, Subpart DDDDD.	05-01-2005	FG-PHOSPHATELINES, FG-MACT MMMM, FG-MACT PPPP FG-MACT DDDDD

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-PHOSPHATE2	A phosphate pre-treatment line for metal/plastic parts consisting of fourteen (14) tanks and two (2) natural gas-fired dryers. The tanks are steam heated by three (3) shared natural gas-fired boilers. Note: the 3 steam boilers are subject to 40 CFR 63, Subpart DDDDD.	06-01-2010	FG-PHOSPHATELINES, FG-MACT MMMM, FG-MACT PPPP FG-MACT DDDDD
EU-PHOS-PROTO	A proto-type phosphate pre-treatment line for metal parts consisting of ten (10) tanks and one electric or steam heated dryer. The tanks are steam heated by three (3) shared natural gas-fired boilers. Note: the 3 steam boilers are subject to 40 CFR 63, Subpart DDDDD.	05-01-2005	FG-PHOSPHATELINES, FG-MACT MMMM, FG-MACT PPPP FG-MACT DDDDD
EU-PHOSPHATE3	A phosphate pre-treatment line for metal parts consisting of sixteen (16) tanks and one (1) natural gas-fired dryer. The tanks steam heated by three (3) shared natural gas-fired boilers. Note: the 3 steam boilers are subject to 40 CFR 63, Subpart DDDDD.	08-01-2016	FG-PHOSPHATELINES, FG-MACT MMMM, FG-MACT PPPP FG-MACT DDDDD
EU-DS1	One (1) dip spin (DS) unit to coat metal/plastic parts with four (4) associated ovens. (The ovens are shared with EU-DS2, EU-DS3, EU-H1, EU-H2, and EU-H3).	05-01-2005	FG-DIPSPINS, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-DS2	One (1) dip spin (DS) unit to coat metal/plastic parts with four (4) associated ovens. (The ovens are shared with EU-DS1, EU-DS3, EU-H1, EU-H2, and EU-H3).	05-01-2005	FG-DIPSPINS, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-DS3	One (1) dip spin (DS) unit to coat metal/plastic parts with four (4) associated ovens. (The ovens are shared with EU-DS1, EU-DS2, EU-H1, EU-H2 and EU-H3).	05-01-2005	FG-DIPSPINS, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-DS4	One (1) dip spin (DS) unit, and associated ovens, to coat metal/plastic parts that is exempt per Rule 287(2)(c).	06-01-2012	FG-MACT MMMM, FG-MACT PPPP, FG-RULE287(2)(c)
EU-DS5	One (1) dip spin (DS) unit, and associated ovens, to coat metal/plastic parts that is exempt per Rule 287(2)(c).	01-01-2015	FG-MACT MMMM, FG-MACT PPPP, FG-RULE287(2)(c)
EU-DS6	One (1) dip spin (DS) unit, and associated ovens, to coat metal/plastic parts that is exempt per Rule 287(2)(c).	11-01-2017	FG-MACT MMMM, FG-MACT PPPP, FG-RULE287(2)(c)

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-DS7	One (1) dip spin (DS) unit, and associated ovens, to coat metal parts that is exempt per Rule 287(2)(c).	11-01-2016	FG-MACT MMMM, FG-RULE287(2)(c)
EU-H1	One (1) manual miscellaneous metal/plastic parts spray booth with four (4) associated ovens. (The ovens are shared with EU-DS1, EU-DS2, EU-DS3, EU-H2 and EU-H3).	05-01-2005	FG-H1/H2/H3, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-H2	One (1) manual miscellaneous metal/plastic parts spray booth with four (4) associated ovens. (The ovens are shared with EU-DS1, EU-DS2, EU-DS3, EU-H1 and EU-H3).	05-01-2005	FG-H1/H2/H3, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-H3	One (1) manual miscellaneous metal/plastic parts spray booth with four (4) associated ovens. (The ovens are shared with EU-DS1, EU-DS2, EU-DS3, EU-H1 and EU-H2).	05-01-2005	FG-H1/H2/H3, FG-MISCMETAL/PLASTIC, FG-MACT MMMM, FG-MACT PPPP
EU-CE1	A spindle conveyor adhesive coating line equipped with two (2) automatic miscellaneous metal/plastic parts spray booths (Booth 1 and Booth 2) with two IR ovens connected by a chain-on-edge conveyor system and controlled by a regenerative thermal oxidizer.	05-01-2005	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-CE2	A spindle conveyor adhesive coating line equipped with two (2) automatic miscellaneous metal/plastics parts spray booths (Booth 3 and Booth 4) with two (2) IR ovens connected by a chain-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	02-01-2007	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-CE3	A spindle conveyor adhesive coating line equipped with one (1) manual/automatic miscellaneous metal/plastic parts spray booth (Booth 5) with associated electric oven connected by a chain-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	05-01-2010	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-CE4	A spindle conveyor adhesive coating line equipped with two (2) automatic miscellaneous metal/plastic parts spray booths (Booth 6 and Booth 7) with two (2) IR ovens connected by a chain-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	05-01-2014	FG-RTO, FG-MACT MMMM, FG-MACT PPPP

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-CE5	A spindle conveyor adhesive coating line equipped with two (2) automatic miscellaneous metal/plastic parts spray booths (Booth 8 and Booth 9) with a pre-heat oven and dry oven connected by a chain-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	02-01-2018	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-CE6	A spindle conveyor coating line equipped with two (2) automatic miscellaneous metal/plastic parts spray booths (Booth 10 and Booth 11) with a preheat oven and dry oven connected by a change-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	03-01-2020	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-CE7	A spindle conveyor coating line equipped with two (2) automatic miscellaneous metal/plastic parts spray booths (Booth 12 and Booth 13) with a preheat oven and dry oven connected by a chain-on-edge (CE) conveyor system and controlled by a regenerative thermal oxidizer.	11-02-2021	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-RC	A roll coater (RC) line equipped with drying oven is controlled by a regenerative thermal oxidizer.	08-01-2008	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-TS1	A Rule 287(2)(c) exempt tumble spray (TS) line.	12-31-2008	FG-MACT MMMM, FG-MACT PPPP, FG-RULE287(2)(c)
EU-TS2	A Rule 287(2)(c) exempt tumble spray (TS) line.	12-31-2008	FG-MACT MMMM, FG-MACT PPPP, FG-RULE287(2)(c)
EU-TS3	A tumble spray (TS) line controlled by a regenerative thermal oxidizer.	01-01-2014	FG-RTO, FG-MACT MMMM, FG-MACT PPPP
EU-TS4	A tumble spray (TS) line controlled by a regenerative thermal oxidizer.	02-01-2016	FG-RTO, FG-MACT MMMM, FG-MACT PPPP

**EU-SANDBLAST  
EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Sandblast cabinets using a variety of blast media, and a polisher, used to pre-treat metal parts.

Flexible Group ID: NA

**POLLUTION CONTROL EQUIPMENT**

All sandblast cabinets have particulate control.

**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-SANDBLAST unless all respective particulate control systems are installed, maintained, and operating in a satisfactory manner.<sup>2</sup> (R 336.1224, R 336.1301, 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 keep the particulate control records on a monthly basis using method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> (R 336.1224, R 336.1225, 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. Semi-annual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))

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

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

1. The exhaust gases from EU-SANDBLAST shall be released only into the general in-plant environment.<sup>2</sup>  
**(R 336.1224, R 336.1225, 40 CFR 52.21(c) & (d))**

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

**EU-METALREPAIR  
EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Welding units, metal punch, grinder, drill press, etc. all used to repair metal parts.

**Flexible Group ID:** NA

**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**

NA

**VII. REPORTING**

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

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

1. The exhaust gases from EU-METALREPAIR shall be released only into the general in-plant environment.<sup>2</sup>  
(R 336.1224, R 336.1225, 40 CFR 52.21(c) & (d))

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

**EU-HEATING  
EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Natural gas-fired comfort furnaces rated at 0.2 MMBTU/hr and air make-up units rated at 2.5 MMBTU/hr used for indoor air heating and ventilation.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

NA

**II. MATERIAL LIMIT(S)**

1. The permittee shall only burn natural gas or propane in EU-HEATING.<sup>2</sup> **(R 336.1205(1)(a))**

**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**

NA

**VII. REPORTING**

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

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-HEATING	5 <sup>2</sup>	18 <sup>2</sup>	R 336.1225, 40 CFR 52.21 (c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

## **EU-BURNOFF EMISSION UNIT CONDITIONS**

### **DESCRIPTION**

A batch type natural gas-fired burnoff oven with a secondary chamber or afterburner, used to remove cured paints, oil or grease from metal parts by thermal decomposition in a primary chamber.

**Flexible Group ID:** NA

### **POLLUTION CONTROL EQUIPMENT**

NA

#### **I. EMISSION LIMIT(S)**

1. There shall be no visible emissions from EU-BURNOFF.<sup>2</sup> (R 336.1225, R 336.1910)

#### **II. MATERIAL LIMIT(S)**

1. The permittee shall only burn natural gas in EU-BURNOFF.<sup>2</sup> (R 336.1205(1)(a))
2. The permittee shall not process any material in EU-BURNOFF other than cured paints, oil or grease on metal parts, racks and/or hangers.<sup>1</sup> (R 336.1224, R 336.1225)

#### **III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not use EU-BURNOFF for the thermal destruction or removal of rubber, plastics, unhardened paints, or any other materials containing sulfur or halogens (chlorine, fluorine, bromine, etc.) such as plastisol, polyvinyl chloride (PVC) or Teflon.<sup>1</sup> (R 336.1224, R 336.1225)
2. The permittee shall not load any transformer cores, which may be contaminated with PCB-containing dielectric fluid, wire or parts coated with lead or rubber, or any waste materials such as paint sludge or waste powder coatings into EU-BURNOFF.<sup>1</sup> (R 336.1224, R 336.1225)

#### **IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate EU-BURNOFF unless a secondary chamber or afterburner is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the secondary chamber or afterburner includes maintaining a minimum temperature of 1400 °F and a minimum retention time of 0.5 seconds.<sup>2</sup> (R 336.1224, R 336.1225, R 336.1301, R 336.1910)
2. The permittee shall not operate EU-BURNOFF unless an automatic temperature control system for the primary chamber or secondary chamber or afterburner is installed, maintained, and operated in a satisfactory manner.<sup>2</sup> (R 336.1224, R 336.1225, R 336.1301, R 336.1910)
3. The permittee shall not operate EU-BURNOFF unless an interlock system that shuts down the primary chamber burner when the secondary chamber or afterburner is not operating properly, is installed, maintained and operated in a satisfactory manner.<sup>2</sup> (R 336.1224, R 336.1225, R 336.1301, 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 install, calibrate, maintain and operate in a satisfactory manner a device to continuously monitor the temperature in the burnoff oven secondary chamber or afterburner and record the temperature at least once every 15 minutes.<sup>2</sup> **(R 336.1224, R 336.1225, R 336.1301, R 336.1910)**
2. The permittee shall calibrate the thermocouples associated with the primary and secondary chambers at least once per year.<sup>2</sup> **(R 336.1224, R 336.1225, R 336.1910)**
3. The permittee shall keep, in a satisfactory manner, temperature data records for the burnoff oven secondary chamber or afterburner. All records shall be kept on file and made available to the Department upon request.<sup>2</sup> **(R 336.1224, R 336.1225, R 336.1301, R 336.1910)**
4. The permittee shall keep, in a satisfactory manner, records of the date, duration, and description of any malfunction of the control equipment, any maintenance performed and any testing results for EU-BURNOFF. All records shall be kept on file and made available to the Department upon request.<sup>2</sup> **(R 336.1910, R 336.1912)**
5. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each in-house coated material (cured coating, oil or grease) processed in EU-BURNOFF, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. All records shall be kept on file and made available to the Department upon request.<sup>2</sup> **(R 336.1224, R 336.1225, R 336.1910)**
6. The permittee shall maintain current information from the manufacturer that EU-BURNOFF is equipped with a secondary chamber or afterburner, an automatic temperature control system for the primary chamber and secondary chamber or afterburner, and an interlock system that shuts down the primary chamber burner when the secondary chamber or afterburner is not operating properly. All records shall be kept on file and made available to the Department upon request.<sup>2</sup> **(R 336.1224, R 336.1225, 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. Semi-annual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-BURNOFF	10.0 <sup>2</sup>	42.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

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

**EU-DEGREASER  
EMISSION UNIT CONDITIONS**

**DESCRIPTION**

One Baron-Blakeslee MVR-425 batch vapor degreaser with freeboard refrigeration device and working-mode cover.

**Flexible Group ID:** FG-MACT T

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOCs	268.8 lb/month <sup>2</sup>	3-month rolling average as determined at the end of each calendar month	EU-DEGREASER	SC VI.1, VI.2	<b>R 336.1225, R 336.1702(a)</b>

**II. MATERIAL LIMIT(S)**

1. The permittee shall not use more than 22.2 gallons of trichloroethylene-based solvent, hereinafter "solvent", per month based on a 3-month rolling average as determined at the end of each calendar month. The amount of solvent used shall be determined on a "net usage" basis. "Net usage" is defined as the amount of solvent added to EU-DEGREASER to bring the solvent levels up to the fill line (as defined in 40 CFR 63.465(b)) less any amount of solvent removed as waste and shall be measured at least once per month.<sup>2</sup> **(R 336.1225, R 336.1702(a))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not operate EU-DEGREASER except in compliance with the overall emission limit requirements of 40 CFR 63.464(a)(1).<sup>2</sup> **(R 336.1225, R 336.1702(a), 40 CFR Part 63, Subpart T, 40 CFR 63.464(a)(1))**

**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 complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1225, R 336.1702(a), 40 CFR Part 63, Subpart T)**

2. The permittee shall keep records for EU-DEGREASER as specified below. The records include, but are not limited to the items identified below:
  - a. The dates and amounts of solvent that are added to and removed from EU-DEGREASER.
  - b. The solvent composition of wastes removed from EU-DEGREASER using the procedure described in 40 CFR 63.465(c)(2).
  - c. Net usage of solvent on a monthly and 3-month rolling average as determined at the end of each calendar month for EU-DEGREASER.
  - d. Calculation sheets showing how monthly and 3-month rolling average period emissions as determined at the end of each calendar month for EU-DEGREASER were determined and the results of all calculations.

The records shall be kept in a format acceptable to the AQD District Supervisor. All records shall be kept on file and made available to the Department upon request.<sup>2</sup> **(R 336.1225, R 336.1702(a), 40 CFR Part 63, Subpart T, 40 CFR 63.465(c))**

**VII. REPORTING**

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semi-annual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit reports to the AQD District Supervisor as specified in 40 CFR 63.468.<sup>2</sup> **(40 CFR Part 63, Subpart T, 40 CFR 63.468)**

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-DEGREASER	6.0 <sup>2</sup>	42.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>

**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 T, as they apply to EU-DEGREASER.<sup>2</sup> **(40 CFR Part 63, Subpart T)**

**Footnotes:**

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

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

<b>EU-POWDERCOAT EMISSION UNIT CONDITIONS</b>
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**DESCRIPTION**

One (1) manual powder coating application booth with a filtration control system.

**Flexible Group ID:** FG-MACT MMMM, FG-MACT PPPP

**POLLUTION CONTROL EQUIPMENT**

Particulate control system

**I. EMISSION LIMIT(S)**

NA

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

NA

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate EU-POWDERCOAT unless the filtration control system is installed, maintained, and operating in a satisfactory manner.<sup>2</sup> **(R 336.1224, 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))**

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 the particulate control records on a monthly basis using method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1224, 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. Semi-annual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

**VIII. STACK/VENT RESTRICTION(S)**

1. The exhaust gases from EU-POWDERCOAT shall be released only into the general in-plant environment.<sup>2</sup>  
(R 336.1224, R 336.1225, 40 CFR 52.21(c) & (d))

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**Footnotes:**

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

## D. FLEXIBLE GROUP SPECIAL CONDITIONS

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

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

### FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-PHOSPATELINES	Four (4) phosphate pre-treatment lines for metal/plastic parts.	EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO
FG-DIPSPINS	Three (3) dip spin units to coat metal/plastic parts.	EU-DS1, EU-DS2, EU-DS3
FG-H1/H2/H3	Three (3) manual miscellaneous metal/plastic parts spray lines.	EU-H1, EU-H2, EU-H3
FG-MISCMETAL/PLASTIC	All metal parts coating lines source-wide, including metal parts coating lines covered by other permits which are exempted by R 336.1621(10)(b).  All plastic parts coating lines source-wide including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(a).	EU-DS1, EU-DS2, EU-DS3, EU-H1, EU-H2, EU-H3
FG-RTO	Ten (10) controlled metal/plastic parts coating lines. Associated purge and cleanup is included.	EU-CE1, EU-CE2, EU-CE3, EU-CE4, EU-CE5, EU-CE6, EU-CE7, EU-RC, EU-TS3, EU-TS4

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MACT MMMM	<p>Each new, reconstructed, and existing affected source described in 40 CFR 63.3881(a)(1), including the subcategories listed in 40 CFR Part 63, Subpart MMMM, 40 CFR 63.3881(a)(2) through (6), meeting the applicability requirements of 40 CFR 63.3881(b), which is engaged in the surface coating of miscellaneous metal parts and products. The affected source includes the collection of all the items listed in 40 CFR 63.3882(b)(1) through (4). Surface coating is defined by 40 CFR 63.3881 as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating.</p>	<p>EU-POWDERCOAT,            EU-PHOSPHATE1,            EU-PHOSPHATE2,            EU-PHOSPHATE3,            EU-PHOS-PROTO,            EU-DS1,            EU-DS2,            EU-DS3,            EU-DS4,            EU-DS5,            EU-DS6,            EU-DS7,            EU-CE1,            EU-CE2,            EU-CE3,            EU-CE4,            EU-CE5,            EU-CE6,            EU-CE7,            EU-RC,            EU-TS1,            EU-TS2,            EU-TS3,            EU-TS4,            EU-H1,            EU-H2,            EU-H3</p>
FG-MACT PPPP	<p>Each new, reconstructed, and existing affected source engaged in the surface coating of plastic parts and products, identified within each of the four subcategories listed in 40 CFR Part 63, Subpart PPPP, 40 CFR 63.4481(a)(2) to (5). Surface coating is defined by 40 CFR 63.4481 as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating.</p>	<p>EU-POWDERCOAT,            EU-PHOSPHATE1,            EU-PHOSPHATE2,            EU-PHOSPHATE3,            EU-PHOS-PROTO,            EU-DS1,            EU-DS2,            EU-DS3,            EU-DS4,            EU-DS5,            EU-DS6,            EU-CE1,            EU-CE2,            EU-CE3,            EU-CE4,            EU-CE5,            EU-CE6,            EU-CE7,            EU-RC,            EU-TS1,            EU-TS2,            EU-TS3,            EU-TS4,            EU-H1,            EU-H2,            EU-H3</p>

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MACT DDDDD	<p>Requirements for new boilers and process heaters with a heat input capacity of &lt;10 MMBTU/hr for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). These boilers or process heaters are designed to burn gaseous fuels.</p> <p>Three (3) natural gas-fired watertube boilers associated with the phosphate lines. Each boiler is rated at 3.3 MMBTU/hr, is considered to be a new gas 1 fuel subcategory boiler at a major source of HAPs and provides process steam heat to the phosphate lines.</p>	<p>Three (3) Steam Boiler Portion of FG-PHOSPHATELINES (EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO)</p>
FG-MACT T	<p>Each individual batch vapor cleaning machine with a solvent/air interface that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform or any combination of these halogenated HAP solvents in a total concentration greater than 5% by weight as a cleaning and/or drying agent as specified in 40 CFR Part 63, Subpart T, 40 CFR 63.460(a).</p>	<p>EU-DEGREASER</p>
FG-RULE287(2)(c)	<p>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.</p>	<p>EU-DS4,          EU-DS5,          EU-DS6,          EU-DS7,          EU-TS1,          EU-TS2</p>

**FG-PHOSPHATELINES  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Four (4) phosphate pre-treatment lines for metal/plastic parts.

**Emission Units:** EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOCs	1.0 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	FG-PHOSPHATELINES	SC VI.1, SC VI.2, SC VI.3	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 permittee shall determine the VOC content, water content, and density of any phosphating material as applied and as received, using federal Reference Test Method 24 or in a manner acceptable to the AQD District Supervisor. Upon prior approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer’s formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.<sup>2</sup> (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> (R 336.1225, R 336.1702)

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.<sup>2</sup> **(R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for FG-PHOSPHATELINES:
  - a. VOC content of each material used, based on Material Safety Data Sheets, manufacturer’s formulation data, or both or other documentation as deemed acceptable by the AQD District Supervisor.
  - b. For each phosphate bath, the VOC concentration (“as mixed”) in the bath, based on VOC content of the material and dilution rate within the prepared bath.
  - c. Open surface area of bath(s) containing products with VOCs.
  - d. Vapor pressure of products containing VOCs, based on Material Safety Data Sheets, manufacturer’s formulation data, or both or other documentation as deemed acceptable by the AQD District Supervisor.
  - e. VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - f. VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records as mentioned above using a method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-PHOSPHATE1	36.0 <sup>2</sup>	35.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>
2. SV-PHOSPHATE2	36.0 <sup>2</sup>	35.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>
3. SV-PHOSPHATE3	36.0 <sup>2</sup>	35.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>

4. The exhaust gases from EU-PHOS-PROTO shall be released only into the general in-plant environment.<sup>2</sup> **(R 336.1225, 40 CFR 52.21(c) & (d))**

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**Footnotes:**

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

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

**FG-DIPSPINS  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Three (3) dip spin units to coat metal/plastic parts.

**Emission Units:** EU-DS1, EU-DS2, EU-DS3

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOCs	5.0 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	FG-DIPSPINS	SC VI.1, SC VI.2, SC VI.3	<b>R 336.1702(d)</b>
2. VOCs	2,000 pounds per month <sup>2</sup>	Calendar month	FG-DIPSPINS	SC VI.1, SC VI.2, SC VI.3	<b>R 336.1702(d)</b>

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall capture all waste coatings, reducers, clean-up solvents, etc. (materials) and 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.<sup>2</sup> **(R 336.1702(a))**

**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 determine the VOC content, water content, and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer’s formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.<sup>2</sup> **(R 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1225, R 336.1702)**
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.<sup>2</sup> **(R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for FG-DIPSPINS:
  - a. Gallons (with water) of each coating, reducer, clean-up solvents, etc. (material) used and reclaimed.
  - b. VOC content (with water) of each material as applied.
  - c. VOC mass emission calculations determining the monthly emission rate in pounds and tons per calendar month.
  - d. VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1702(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-H1/H2/H3	38.0 <sup>2</sup>	42.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-OVEN1	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-OVEN2	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
4. SV-OVEN3	10.0 <sup>2</sup>	35.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>
5. SV-OVEN4	10.0 <sup>2</sup>	35.0 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**Footnotes:**

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

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

**FG-H1/H2/H3  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Three (3) manual miscellaneous metal/plastic parts spray lines.

**Emission Units:** EU-H1, EU-H2, EU-H3

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOCs	5.0 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	FG-H1/H2/H3	SC VI.1, SC VI.2, SC VI.3	<b>R 336.1702(d)</b>
2. VOCs	2,000 pounds per month <sup>2</sup>	Calendar month	FG-H1/H2/H3	SC VI.1, SC VI.2, SC VI.3	<b>R 336.1702(d)</b>

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall capture all waste coatings, solvents, etc. (materials) and 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.<sup>2</sup> **(R 336.1224, R 336.1702(a))**
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.<sup>2</sup> **(R 336.1224, R 336.1370)**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate FG-H1/H2/H3 unless all respective exhaust filters are installed and operating in a satisfactory manner.<sup>2</sup> **(R 336.1224, R 336.1301, 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 shall determine the VOC content, water content, and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.<sup>2</sup> **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1225, R 336.1702)**
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.<sup>2</sup> **(R 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for FG-H1/H2/H3:
  - a. Gallons (with water) of each coating, reducer, clean-up solvents, etc. (material) used and reclaimed.
  - b. VOC content (with water) of each material as applied.
  - c. VOC mass emission calculations determining the monthly emission rate in pounds and tons per calendar month.
  - d. VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1702(d))**

4. The permittee shall keep the particulate control records on a monthly basis using method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1224, R 336.1225, 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:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-H1/H2/H3	38.0 <sup>2</sup>	42.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV-OVEN1	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-OVEN2	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-OVEN3	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV-OVEN4	10.0 <sup>2</sup>	35.0 <sup>2</sup>	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**Footnotes:**

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

**FG-MISCMETAL/PLASTIC  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

All metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).

All plastic parts coating lines source-wide including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(a).

**Emission Units:** EU-DS1, EU-DS2, EU-DS3, EU-H1, EU-H2, EU-H3

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	30.0 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	All metals parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).	SC VI.2, SC VI.3	<b>R 336.1702(d)</b>
2. VOC	Less than 30 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	All plastic parts coating lines source-wide, including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(a).	SC VI.2, SC VI.4	<b>R 336.1702(d)</b>

**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))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1205(3))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and reducer 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.<sup>2</sup> **(R 336.1702(d))**
3. The permittee shall keep the following information on a calendar month basis for all metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b):
  - a. Gallons or pounds of each VOC containing material used.
  - b. VOC content, in pounds per gallon or pounds per pound as applied, of each VOC containing material used.
  - c. VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - d. VOC 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 records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1702(d))**

4. The permittee shall keep the following information on a calendar month basis for all plastic parts coating lines source-wide including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(a):
  - a. Gallons or pounds of each VOC containing material used.
  - b. VOC content, in pounds per gallon or pounds per pound as applied, of each VOC containing material used.
  - c. VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - d. VOC 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 using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1702(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)**

NA

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**Footnotes:**

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

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

**FG-RTO  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Ten (10) controlled metal/plastic parts coating lines. Associated purge and cleanup is included.

**Emission Units:** EU-CE1, EU-CE2, EU-CE3, EU-CE4, EU-CE5, EU-CE6, EU-CE7, EU-RC, EU-TS3, EU-TS4

**POLLUTION CONTROL EQUIPMENT**

Permanent Total Enclosure (PTE) and Regenerative Thermal Oxidizer (RTO)

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC, acetone (CAS No. 67-64-1), and methyl acetate (CAS No. 79-20-9), combined	49.7 tpy <sup>2</sup>	12-month rolling time period as determined at the end of each calendar month.	FG-RTO	SC VI.1, SC VI.3, SC VI.4	<b>R 336.1205, R 336.1224, R 336.1702(a)</b>
2. Methyl Isobutyl Ketone (CAS No. 108-10-1)	4.6 tpy <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month.	FG-RTO	SC VI.1, SC VI.3, SC VI.5	<b>R 336.1225(1)</b>

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall capture all waste coatings, reducers, clean-up solvents, etc. (materials) and 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.<sup>2</sup> **(R 336.1224, R 336.1702(a))**
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air.<sup>2</sup> **(R 336.1224, R 336.1370)**
3. The permittee shall handle all VOC and / or HAP containing materials, including coatings, reducers, solvents and thinners, 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.<sup>2</sup> **(R 336.1205, R 336.1224, R 336.1702(a))**

4. The permittee shall not operate FG-RTO 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.<sup>2</sup> **(R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

5. The permittee shall either maintain a minimum of 0.007 inches of water pressure differential between the PTE and the adjacent area on a 3-hour block average basis or maintain a facial velocity of 200 feet per minute through each natural draft opening of the PTE on a 3-hour block average basis.<sup>2</sup> **(R 336.1702(a), R 336.1910)**

#### **IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate FG-RTO unless all respective exhaust filters are installed and operating in a satisfactory manner.<sup>2</sup> **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall not operate FG-RTO unless the RTO is installed, maintained and operated in a satisfactory manner. Satisfactory operation of FG-RTO includes a minimum capture efficiency of 100 percent (by weight), a minimum destruction efficiency for the RTO of 95 percent (by weight), maintaining a minimum temperature of 1,550°F or the minimum temperature from the most recent acceptable stack test, and a minimum retention time of 0.5 seconds.<sup>2</sup> **(R 336.1205, R 336.1702, R 336.1910)**
3. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a temperature monitoring device to continuously monitor and record the combustion chamber temperature of the RTO during operation of FG-RTO.<sup>2</sup> **(R 336.1205, R 336.1225, R 336.1702)**
4. The permittee shall not operate FG-RTO unless the PTE is installed, maintained and operated in a satisfactory manner. Satisfactory operation requires the following:<sup>2</sup> **(R 336.1702(a), R 336.1910)**
  - a. The direction of the air flow at all times must be into the enclosure; and either
  - b. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or
  - c. The pressure drop across the enclosure must be at least 0.007-inch H<sub>2</sub>O.

## **V. TESTING/SAMPLING**

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

1. The permittee shall determine the VOC content, water content, and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance.<sup>2</sup> **(R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. Within 5 years of the most recent performance test, and once every five (5) years, thereafter, the permittee shall verify the VOC capture efficiency across FG-RTO, by testing at owner's expense, in accordance with Department requirements, unless the permittee has submitted to the AQD District Supervisor an acceptable demonstration that the most recent acceptable test remains valid and representative. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol 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. Verification of capture efficiency includes the submittal of a complete report of the test results, including calculations demonstrating the capture efficiency, to the AQD within 60 days following the last date of the test.<sup>2</sup> **(R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004)**
3. Within 5 years of the most recent performance test, and once every five years, thereafter, the permittee shall verify the VOC destruction efficiency of the regenerative thermal oxidizer for FG-RTO, by testing at owner's expense, in accordance with Department requirements, unless the permittee has submitted to the AQD District Supervisor an acceptable demonstration that the most recent acceptable test remains valid and representative. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternative 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. Verification of destruction efficiency includes the submittal of a complete report of the test results, including calculations demonstrating the destruction efficiency, to the AQD within 60 days following the last date of the test.<sup>2</sup> **(R 336.1205, R 336.1702, R 336.2001, 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 complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.<sup>2</sup> **(R 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall monitor and record, in a satisfactory manner, the temperature in the RTO on a continuous basis in a manner and with instrumentation acceptable to the Air Quality Division. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> **(R 336.1205, R 336.1225, R 336.1702, R 336.1910, 40 CFR 64.6(c)(1)(ii))**
3. 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.<sup>2</sup> **(R 336.1225, R 336.1702)**

4. The permittee shall keep the following information on a calendar month basis for the FG-RTO:
  - a. Gallons (with water) of each coating, reducer, purge and clean-up solvents, etc. (material) used and reclaimed.
  - b. VOC content (with water), acetone content, and methyl acetate content of each material as applied.
  - c. VOC, acetone (CAS No. 67-64-1), and methyl acetate (CAS No. 79-20-9) combined mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d. VOC, acetone (CAS No. 67-64-1), and methyl acetate (CAS No. 79-20-9) combined 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 using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> (**R 336.1205, R 336.1224, R 336.1702(a)**)

5. The permittee shall keep the following information on a calendar month basis for the FG-RTO:
  - a. Gallons (with water) of each methyl isobutyl ketone (CAS No. 108-10-1) containing material used.
  - b. Where applicable, the gallons (with water) of each methyl isobutyl ketone (CAS No. 108-10-1) containing material reclaimed.
  - c. The methyl isobutyl ketone (CAS No. 108-10-1) content (with water) in pounds per gallon of each material used.
  - d. Methyl isobutyl ketone (CAS No. 108-10-1) mass emission calculations determining the monthly emission rate in tons per calendar month.
  - e. Methyl isobutyl ketone (CAS No. 108-10-1) 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 using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> (**R 336.1225(1)**)

6. The permittee shall monitor and record, in a satisfactory manner, the following:
  - a. The direction of air flow into the enclosure at all times; and either
  - b. The facial velocity of air flow through all natural draft openings; or
  - c. The pressure drop at or above the facial velocity limit or pressure drop limit.

Data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. The permittee shall keep all records on file and make them available to the Department upon request.<sup>2</sup> (**R 336.1702**)

7. The permittee shall continuously monitor combustion chamber temperature and record every 15 minutes as an indicator of proper operation of the RTO. The indicator range is a combustion chamber temperature greater than or equal to the minimum temperature based on a three-hour block average established during the most recent acceptable stack test. (**40 CFR 64.3(a)(2), 40 CFR 64.6(c)(1)(i)**)
8. The permittee shall evaluate the capture efficiency of the capture system by monitoring the direction of the air flow and calculating average facial velocity through all-natural draft openings (NDO). This shall be recorded continuously at 1-minute intervals on a data acquisition system or other method and manually logged once per day. The indicator range is greater than or equal to 200 feet per minute. (**40 CFR 64.3(a)(2), 40 CFR 64.6(c)(1)(i)**)

9. For each control device in operation, the permittee shall conduct bypass monitoring for each bypass line such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of when the bypass line was opened and the length of time the bypass line was opened shall be kept on file. **(40 CFR 64.3(a)(2))**
10. The thermocouple and pitot tube shall continuously monitor the RTO combustion chamber temperature, direction of the air flow and the face velocity, respectively. The averaging period is a 3-hour block period. The monitors shall be operated in accordance with the facility's current approved Malfunction Abatement Plan and Compliance Assurance Monitoring plan. **(40 CFR 64.6(c)(1)(ii))**
11. An excursion for the RTO combustion chamber temperature is a 3-hour block average period where the temperature falls below the minimum temperature based on a 3-hour block average established during the most recent acceptable stack test. An excursion for the PTE facial velocity is a 3-hour block average period where the facial velocity falls below 200 feet per minute through each NDO of the PTE. **(40 CFR 64.6(c)(2))**
12. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associate 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). In response to excursions, the permittee shall follow corrective actions as specified in the facility's Malfunction Abatement Plan. **(40 CFR 64.7(d))**
13. 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))**
14. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**
15. 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))**

## **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 any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**
5. 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))**
6. 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:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO	52.8 x 30 <sup>2</sup>	46.3 <sup>2</sup>	<b>R 336.1225, 40 CFR 52.21(c) &amp; (d)</b>

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall maintain a secure property line around the facility at all times by the use of a fence, surveillance cameras, and/or security guards. The permittee shall keep records of how the secure property line is being maintained. The records may consist of detailed drawings indicating fence lines, placement of surveillance cameras and/or security guards, or alternate records 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.<sup>1</sup> **(R 336.1225(1))**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**
3. 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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**
4. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**
5. 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))**

**Footnotes:**

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

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

**FG-MACT MMMM  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Each new, reconstructed, and existing affected source described in 40 CFR 63.3881(a)(1), including the subcategories listed in 40 CFR Part 63, Subpart MMMM, 40 CFR 63.3881(a)(2) through (6), meeting the applicability requirements of 40 CFR 63.3881(b), which is engaged in the surface coating of miscellaneous metal parts and products. The affected source includes the collection of all the items listed in 40 CFR 63.3882(b)(1) through (4). Surface coating is defined by 40 CFR 63.3881 as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating.

**Emission Units:** EU-POWDERCOAT, EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO, EU-DS1, EU-DS2, EU-DS3, EU-DS4, EU-DS5, EU-DS6, EU-DS7, EU-CE1, EU-CE2, EU-CE3, EU-CE4, EU-CE5, EU-CE6, EU-CE7, EU-RC, EU-TS1, EU-TS2, EU-TS3, EU-TS4, EU-H1, EU-H2, EU-H3

**POLLUTION CONTROL EQUIPMENT**

Permanent Total Enclosure (PTE) and Regenerative Thermal Oxidizer (RTO)

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	2.6 lbs per gal of coating solids	12-month rolling time period as determined at the end of each calendar month	Existing – General Use Coating	SC V.1, V.2, VI.1 through VI.8	<b>40 CFR 63.3890(b)(1)</b>
2. Organic HAP	27.5 lbs per gal of coating solids	12-month rolling time period as determined at the end of each calendar month	Existing – High Performance Coating	SC V.1, V.2, VI.1 through VI.8	<b>40 CFR 63.3890(b)(2)</b>
3. Organic HAP	37.7 lbs per gal of coating solids	12-month rolling time period as determined at the end of each calendar month	Existing – Rubber-to-Metal Coating	SC V.1, V.2, VI.1 through VI.8	<b>40 CFR 63.3890(b)(4)</b>
4. Organic HAP	12.4 lbs per gal of coating solids	12-month rolling time period as determined at the end of each calendar month	Existing – Extreme Performance Fluoropolymer Coating	SC V.1, V.2, VI.1 through VI.8	<b>40 CFR 63.3890(b)(5)</b>

5. The permittee shall determine whether the organic HAP emission rate is equal to or less than the applicable emission limits in 40 CFR 63.3890 using at least one of the following three options, which are listed in 40 CFR 63.3891(a) through (c):
  - a. Compliant material option.
  - b. Emission rate without add-on controls option.
  - c. Emission rate with add-on controls option.

The permittee shall include all coatings, thinners, and/or other additives, and cleaning materials used when determining the emission rate. **(40 CFR 63.3891)**

6. Any coating operation(s) using the compliant material option or the emission rate without add-on controls option, shall be in compliance with the applicable emission limits in 40 CFR 63.3890 at all times. **(40 CFR 63.3900(a)(1))**
7. If the surface coating operation(s) meet the applicability criteria of more than one of the subcategory emission limits specified in 40 CFR 63.3890(a) or (b), the permittee may comply separately with each subcategory emission limit or comply using one of the alternatives in 40 CFR 63.3890(c)(1) or (2). **(40 CFR 63.3890(c))**

**II. MATERIAL LIMIT(S)**

For the compliant materials option, the permittee shall meet the material limits specified in the following table.

<b>Material</b>	<b>Limit</b>	<b>Time Period/Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring/ Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. Each Thinner and/or Additive	No Organic HAP *	Continuous	Each Coating Operation using Compliant Material Option	SC VI.1, VI.2, & VI.4	<b>40 CFR 63.3891(a)</b>
2. Each Cleaning Material	No Organic HAP *	Continuous	Each Coating Operation using Compliant Material Option	SC VI.1, VI.2, & VI.4	<b>40 CFR 63.3891(a)</b>

\* Determined according to 40 CFR 63.3941(a).

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. At all times, the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.3893)**
2. For any coating operation(s) using the emission rate with add-on controls option, the permittee must develop and implement a work practice plan, to minimize the organic HAP emissions from the storage, mixing and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation(s). The work practice plan must specify practices and procedures to ensure, at a minimum, the following elements are implemented:
  - a. All organic HAP containing coatings, thinners and/or additives, cleaning materials, and waste materials must be stored in closed containers. **(40 CFR 63.3893(b)(1))**
  - b. Spills of organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized. **(40 CFR 63.3893(b)(2))**
  - c. Organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes. **(40 CFR 63.3893(b)(3))**
  - d. Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents. **(40 CFR 63.3893(b)(4))**
  - e. Emissions of organic HAP must be minimized during cleaning of storage, mixing and conveying equipment. **(40 CFR 63.3893(b)(5))**
3. The coating operation(s) must be in compliance with the operating limits for emission capture systems and add-on control devices required by 40 CFR 63.3892 at all times, except for solvent recovery systems which conduct liquid-liquid material balances according to 40 CFR 63.3961(j). **(40 CFR 63.3900(a)(2)(ii))**
4. Any coating operation(s) using the emission rate with add-on controls option must be in compliance with the work practice standards in 40 CFR 63.3893 at all times. **(40 CFR 63.3900(a)(2)(iii))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall meet the operating limits specified in Table 1 of 40 CFR Part 63, Subpart M as identified below. The permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3967. The permittee must meet the operating limits at all times after established. **(40 CFR 63.3892(b), 40 CFR Part 63, Subpart M, Table 1)**

Add-on Control Device	Operating Limit
Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3967(a).
Emission capture system that is a PTE according to 40 CFR 63.3965(a).	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all-natural draft openings in the enclosure must be at least 200 feet per minute; or c. The pressure drop across the enclosure must be at least 0.007 inches H <sub>2</sub> O, as established in Method 204 of Appendix M of 40 CFR Part 51.

**V. TESTING/SAMPLING**

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

1. The permittee shall determine the mass fraction of organic HAP for each material used, the mass fraction of coating solids for each coating, and the density of each material used in accordance with 40 CFR 63.3941, 40 CFR 63.3951, and/or 40 CFR 63.3961. **(40 CFR 63.3941, 40 CFR 63.3951, 40 CFR 63.3961)**
2. For any coating operation(s) using the emission rate with add-on controls option, the permittee must conduct each performance test required by 40 CFR 63.3960 according to the requirements in 40 CFR 63.3964(a)(1) and (2). The permittee must conduct each performance test of an emission capture system according to the requirements in 40 CFR 63.3965. The permittee must conduct each performance test of an add-on control device according to the requirements in 40 CFR 63.3966. 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. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2002, R 336.2003, 40 CFR 63.3964(a) and (b))**

**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 all records required by 40 CFR 63.3930 in the format and timeframes outlined in 40 CFR 63.3931. **(40 CFR 63.3942(d), 40 CFR 63.3952(d), 40 CFR 63.3963(j))**
2. The permittee shall maintain, at a minimum, the following records for each compliance period:
  - a. A copy of each notification and report that is submitted to comply with Subpart M, and the documentation supporting each notification and report. **(40 CFR 63.3930(a))**
  - b. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density of each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. **(40 CFR 63.3930(b))**
  - c. A list of the coating operations on which each compliance option was used, and the beginning and ending dates and times for each compliance option used. **(40 CFR 63.3930(c)(1))**
  - d. For the compliant materials option, the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.3941. **(40 CFR 63.3930(c)(2))**

- e. For the emission rate without add-on controls option, the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or additives, and cleaning materials used each month using Equations 1, 1A through 1C and 2 of 40 CFR 63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of 40 CFR 63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.3951. **(40 CFR 63.3930(c)(3))**
  - f. For the emission rate with add-on controls option, the calculations specified in 40 CFR 63.3930(c)(4)(i) through (v). **(40 CFR 63.3930(c)(4))**
  - g. The name and mass or volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the compliant material option is used for all coatings at the affected source, the permittee may maintain purchase records for each material used rather than a record of the volume used. **(40 CFR 63.3930(d))**
  - h. The mass fraction of organic HAP for each coating, thinner and/or additive, and cleaning material used during each compliance period unless the material is tracked by weight. **(40 CFR 63.3930(e))**
  - i. The volume fraction of coating solids for each coating used during each compliance period. **(40 CFR 63.3930(f))**
  - j. For either the emission rate without add-on controls or with add-on controls option, the density of for each coating, thinner and/or other additive, and cleaning material used during each compliance period. **(40 CFR 63.3930(g))**
  - k. The information specified in 40 CFR 63.3930(h)(1) through (3), if an allowance is used in Equation 1 of 40 CFR 63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.3951(e)(4). **(40 CFR 63.3930(h))**
  - l. The date, time, and duration of each deviation. **(40 CFR 63.3930(j))**
  - m. For the emission rate with add-on controls option, records specified in 40 CFR 63.3930(k)(1) through 40 CFR 63.3930(k)(8). **(40 CFR 63.3930(k))**
3. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall demonstrate continuous compliance with the operating limits specified in Table 1 of 40 CFR Part 63, Subpart M using the applicable method(s) described below: **(40 CFR 63.3963(c))**

Add-on Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3967(a).	i. Collect the combustion temperature data according to 40 CFR 63.3968(c) ii. Reduce the data to 3-hour block averages; and iii. Maintain the 3-hour average combustion temperature at or above the temperature limit.
Emission capture system that is a PTE according to 40 CFR 63.3965(a).	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all-natural draft openings in the enclosure must be at least 200 feet per minute; or c. The pressure drop across the enclosure must be at least 0.007-inch H <sub>2</sub> O, as established in Method 204 of Appendix M of 40 CFR Part 51.	i. Collect the direction of air flow, either the facial velocity of air through all-natural draft openings according to 40 CFR 63.3968(g)(1) or the pressure drop across the enclosure according to 40 CFR 63.3968(g)(2); and ii. Maintain the facial velocity of air flow through all-natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit and maintain the direction of air flow into the enclosure at all times.

4. For each coating used for the compliant coating option, the permittee shall demonstrate continuous compliance with the emission limit in 40 CFR 63.3890, for each compliance period, using Equation 2 of 40 CFR 63.3941. For each thinner and cleaning material used, the permittee shall determine continuous compliance according to 40 CFR 63.3941(a). **(40 CFR 63.3942)**
5. For any coating operation or group of coating operations using the emission rate without add-on controls option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.3890, for each compliance period, according to 40 CFR 63.3951(a) through (g). **(40 CFR 63.3952)**
6. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.3890, for each compliance period, according to the procedures in 40 CFR 63.3961. **(40 CFR 63.3963)**
7. During the performance test required by 40 CFR 63.3960, the permittee shall perform the applicable monitoring and recordkeeping in accordance with 40 CFR 63.3967 to establish the emission capture system and add-on control device operating limits required by 40 CFR 63.3892. **(40 CFR 63.3967)**
8. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall install, operate, and maintain each Continuous Parameter Monitoring System (CPMS) according to the requirements of 40 CFR 63.3968(a). If the capture system contains a bypass line, the permittee shall comply with the requirements of 40 CFR 63.3968(b). **(40 CFR 63.3968)**

## **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 the compliant material option, the permittee shall report a deviation, as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(5), if any coating used for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890; or any thinner or cleaning material used contains any organic HAP. **(40 CFR 63.3942(b))**
5. For the emission rate without add-on controls, the permittee shall report a deviation, as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(6), if the organic HAP emission rate for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890. **(40 CFR 63.3952(b))**
6. For the emission rate with add-on controls option, the permittee shall report the following as deviations as specified in 40 CFR 63.3910(c)(6) and 40 CFR 63.3920(a)(7):
  - a. The organic HAP emission rate for any 12-month compliance period exceeds the applicable emission limit specified in 40 CFR 63.3890; **(40 CFR 63.3963(b))**
  - b. An operating parameter is out of the allowed range; **(40 CFR 63.3963(c)(1))**
  - c. Any control system by-pass line, for which liquid-liquid material balances are not carried out, is opened; **(40 CFR 63.3963(d))**
  - d. Deviations from work practice standards occur. **(40 CFR 63.3963(e))**

7. The permittee shall submit the applicable notifications specified in 40 CFR 63.7(b) and (c), 40 CFR 63.8(f)(4), 40 CFR 63.9(b) through (e) and (h), and an initial notification and a notification of compliance status as specified in 40 CFR 63.3910. **(40 CFR 63.3910)**
8. The permittee shall submit all semiannual compliance reports specified in 40 CFR 63.3920(a). Each semiannual compliance report shall identify which coating operation(s) used each compliance option, and if there were no deviations from the emission limitations in 40 CFR 63.3890, include a statement that the coating operations were in compliance. **(40 CFR 63.3920, 40 CFR 63.3942(c), 40 CFR 63.3952(c), 40 CFR 63.3963(f))**
9. The permittee must submit the following:
  - a. Within 60 days after the date of completing each performance test for emission capture systems and add-on control devices, the results of the performance tests required by 40 CFR Part 63, Subpart Mmmm to the USEPA via the Compliance and Emissions Data Reporting Interface (CEDRI). The CEDRI interface can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). Performance test data must be submitted in the file format generated through use of the USEPA's Electronic Reporting Tool (ERT) (see <https://www.epa.gov/technical-air-pollution-resources>). Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. For data collected using test methods not listed on the ERT Website, the permittee must submit the results of the performance test to the Administrator at the appropriate address listed in 40 CFR 63.13. **(40 CFR 63.3920(b) and (d))**
  - b. Initial notifications required in 40 CFR 63.9(b) and the notification of compliance status required in 40 CFR 63.9(h) and 40 CFR 63.3910(c) to the USEPA via the CEDRI. The CEDRI interface can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The permittee must upload to CEDRI an electronic copy of each applicable notification in portable document format (PDF). The applicable notification must be submitted by the deadline specified in this subpart, regardless of the method in which the reports are submitted. **(40 CFR 63.3920(e))**
  - c. On and after January 5, 2021, or once the reporting template has been available on the CEDRI website for 1-year, whichever date is later, the semiannual compliance report required in 40 CFR 63.3920(a) to the USEPA via the CEDRI. The CEDRI interface can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The permittee must use the appropriate electronic template on the CEDRI website for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>). The date report templates become available will be listed on the CEDRI website. If the reporting form for the semiannual compliance report specific to this subpart is not available in CEDRI at the time that the report is due, the permittee must submit the report to the USEPA at the appropriate addresses listed in 40 CFR 63.13. Once the form has been available in CEDRI for 1 year begin submitting all subsequent reports via CEDRI. **(40 CFR 63.3920(f))**
10. The permittee must report the results of performance tests for emission capture systems and add-on control devices within 60 days after the completion of the performance tests. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office in a format approved by the AQD. **(R 336.2001(5), 40 CFR 63.3920(b))**

See Appendix 8

### **VIII. STACK/VENT RESTRICTION(S)**

NA

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. **(40 CFR Part 63, Subparts A and MMMM)**

**FG-MACT PPPP  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Each new, reconstructed, and existing affected source engaged in the surface coating of plastic parts and products, identified within each of the four subcategories listed in 40 CFR Part 63, Subpart PPPP, 40 CFR 63.4481(a)(2) to (5). Surface coating is defined by 40 CFR 63.4481 as the application of coating to a substrate using, for example, spray guns or dip tanks. Surface coating also includes associated activities, such as surface preparation, cleaning, mixing, and storage if they are directly related to the application of the coating.

**Emission Units:** EU-POWDERCOAT, EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO, EU-DS1, EU-DS2, EU-DS3, EU-DS4, EU-DS5, EU-DS6, EU-CE1, EU-CE2, EU-CE3, EU-CE4, EU-CE5, EU-CE6, EU-CE7, EU-RC, EU-TS1, EU-TS2, EU-TS3, EU-TS4, EU-H1, EU-H2, EU-H3

**POLLUTION CONTROL EQUIPMENT**

Permanent Total Enclosure (PTE) and Regenerative Thermal Oxidizer (RTO)

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.16 lb per lb of coating solids	12-month rolling time period as determined at the end of each calendar month	Existing - General Use Coating	SC V.1, V.2, VI.1 through VI.8	<b>40 CFR 63.4490(b)(1)</b>

2. The permittee shall determine whether the organic HAP emission rate is equal to or less than the applicable emission limits in 40 CFR 63.4490 using at least one of the following three options, which are listed in 40 CFR 63.4491(a) through (c):
  - a. Compliant material option,
  - b. Emission rate without add-on controls option, or
  - c. Emission rate with add-on controls option.

The permittee shall include all coatings, thinners and/or other additives, and cleaning materials used when determining the emission rate. **(40 CFR 63.4491)**
3. Any coating operation(s) using the compliant material option, the emission rate without add-on controls option, or the emission rate with add-on controls option, shall be in compliance with the applicable emission limits in 40 CFR 63.4490 at all times. **(40 CFR 63.4500(a)(1), 40 CFR 63.4500(a)(2)(i))**
4. If the surface coating operation(s) meet the applicability criteria of more than one of the subcategory emission limits specified in 40 CFR 63.4490(a) or (b), the permittee may comply separately with each subcategory emission limit or comply using one of the alternatives in 40 CFR 63.4490(c)(1) or (2). **(40 CFR 63.4490(c))**

**II. MATERIAL LIMIT(S)**

For the compliant materials option, the permittee shall meet the material limits specified in the following table.

Material	Limit	Time Period/Operating Scenario	Equipment	Monitoring/Testing Method	Underlying Applicable Requirements
1. Each Thinner and/or Additive	No Organic HAP *	Continuous	Each Coating Operation using Compliant Material Option	SC VI.1, VI.2, VI.4	<b>40 CFR 63.4491(a)</b>
2. Each Cleaning Material	No Organic HAP *	Continuous	Each Coating Operation using Compliant Material Option	SC VI.1, VI.2, VI.4	<b>40 CFR 63.4491(a)</b>

\* Determined according to 40 CFR 63.4541(a).

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. At all times, the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.4500(b))**
2. For any coating operation(s) using the emission rate with add-on controls option, 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/or other additives, and cleaning materials used in, and waste materials generated by the controlled coating operation(s). The work practice plan shall specify practices and procedures to ensure, at a minimum, the following elements are implemented:
  - a. All organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers. **(40 CFR 63.4493(b)(1))**
  - b. Spills of organic HAP containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized. **(40 CFR 63.4493(b)(2))**
  - c. Organic HAP containing coatings, thinners and/or other additives, cleaning materials and waste materials must be conveyed from one location to another in closed containers or pipes. **(40 CFR 63.4493(b)(3))**
  - d. Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents. **(40 CFR 63.4493(b)(4))**
  - e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment. **(40 CFR 63.4493(b)(5))**
3. Any coating operation(s) using the emission rate with add-on controls option shall be in compliance with the operating limits for emission capture systems and add-on control devices required by 40 CFR 63.4492 at all times except for solvent recovery systems for which the permittee conducts liquid-liquid material balances according to 40 CFR 63.4561(j). **(40 CFR 63.4500(a)(2)(ii))**
4. Any coating operation(s) using the emission rate with add-on controls option shall be in compliance with the work practice standards in 40 CFR 63.4493 at all times. **(40 CFR 63.4500(a)(2)(iii))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall meet the operating limits specified in Table 1 of 40 CFR Part 63, Subpart PPPP as identified below. The permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.4567. The permittee must meet the operating limits at all times after established. **(40 CFR 63.4492(b), 40 CFR Part 63, Subpart PPPP, Table 1)**

Add-on Control Device	Operating Limit
Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.4567(a).
Emission capture system that is a PTE according to 40 CFR 63.4565(a)	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all-natural draft openings in the enclosure must be at least 200 feet per minute; or c. The pressure drop across the enclosure must be at least 0.007 inches H <sub>2</sub> O, as established in Method 204 of Appendix M of 40 CFR Part 51.

**V. TESTING/SAMPLING**

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

1. The permittee shall determine the mass fraction of organic HAP for each material used, the mass fraction of coating solids for each coating, and the organic HAP content of each coating used in accordance with 40 CFR 63.4541, 40 CFR 63.4551, and/or 40 CFR 63.4561. **(40 CFR 63.4541, 40 CFR 63.4551, 40 CFR 63.4561)**
2. For any coating operation(s) using the emission rate with add-on controls option, the permittee must conduct each performance test required by 40 CFR 63.4560 according to the requirements in 40 CFR 63.4564(a)(1) and (2). The permittee shall conduct each performance test of an emission capture system and add-on control device to determine capture efficiency and emission destruction or removal efficiency, according to the requirements in 40 CFR 63.4565 and 40 CFR 63.4566. 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. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2002, R 336.2003, 40 CFR 63.4564(a) and (b))**

**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 all records required by 40 CFR 63.4530 in the format and timeframes outlined in 40 CFR 63.4531. **(40 CFR 63.4542(d), 40 CFR 63.4552(d), 40 CFR 63.4563(j))**
2. The permittee shall maintain, at a minimum, the following records for each compliance period:
  - a. A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart PPPP, and the documentation supporting each notification report. **(40 CFR 63.4530(a))**
  - b. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density of each coating, thinner and/or other additive, and cleaning material, and the mass fraction of coating solids for each coating. **(40 CFR 63.4530(b))**
  - c. A list of the coating operations on which each compliance option was used, and the beginning and ending dates and times for each compliance option used. **(40 CFR 63.4530(c)(1))**
  - d. For the compliant materials option, the calculation of the organic HAP content for each coating, using Equation 1 of 40 CFR 63.4541. **(40 CFR 63.4530(c)(2))**
  - e. For the emission rate without add-on controls option, the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or additives, and cleaning materials used each month using Equations 1, 1A through 1C and 2 of 40 CFR 63.4551; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of 40 CFR 63.4551; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.4551. **(40 CFR 63.4530(c)(3))**

- f. For the emission rate with add-on controls option, the calculations specified in 40 CFR 63.4530(c)(4)(i) through (v). **(40 CFR 63.4530(c)(4))**
  - g. The name and mass or volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the compliant material option is used for all coatings at the affected source, the permittee may maintain purchase records for each material used rather than a record of the mass used. **(40 CFR 63.4530(d))**
  - h. The mass fraction of organic HAP for each coating, thinner and/or additive, and cleaning material used during each compliance period. **(40 CFR 63.4530(e))**
  - i. The mass fraction of coating solids for each coating used during each compliance period. **(40 CFR 63.4530(f))**
  - j. The information specified in 40 CFR 63.4530(g)(1) through (3), if an allowance is used in Equation 1 of 40 CFR 63.4551 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.4551(e)(4). **(40 CFR 63.4530(g))**
  - k. For each deviation from an emission limitation reported under 40 CFR 63.4520(a)(5) through (7), a record of the information specified in 40 CFR 63.4530(h)(1) through (4), as applicable. **(40 CFR 63.4530(h))**
  - l. For the emission rate with add-on controls option, records specified in 40 CFR 63.4530(i)(1) through (8). **(40 CFR 63.4530(i))**
3. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall demonstrate continuous compliance with the operating limits specified in Table 1 to 40 CFR Part 63, Subpart PPPP using the applicable method(s) described below: **(40 CFR 63.4563(c))**

Add-on Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.4567(a).	i. Collect the combustion temperature data according to 40 CFR 63.4568(c); ii. Reduce the data to 3-hour block averages; and iii. Maintain the 3-hour average combustion temperature at or above the temperature limit.
Emission capture system that is a PTE according to 40 CFR 63.4565(a)	a. The direction of the air flow at all times must be into the enclosure; and either b. The average facial velocity of air through all-natural draft openings in the enclosure must be at least 200 feet per minute; or c. The pressure drop across the enclosure must be at least 0.007 inches H <sub>2</sub> O, as established in Method 204 of Appendix M of 40 CFR Part 51.	i. Collect the direction of air flow, and either the facial velocity of air through all-natural draft openings according to 40 CFR 63.4568(g)(1) or the pressure drop across the enclosure according to 40 CFR 63.4568(g)(2); and ii. Maintain the facial velocity of air flow through all-natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit and maintain the direction of air flow into the enclosure at all times.

- 4. For each coating used for the compliant coating option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.4490, for each compliance period, using Equation 1 of 40 CFR 63.4541. For each thinner and cleaning material used, the permittee shall determine continuous compliance according to 40 CFR 63.4541(a). **(40 CFR 63.4542(a))**
- 5. For any coating operation or group of coating operations using the emission rate without add-on controls option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.4490, for each compliance period, according to 40 CFR 63.4551(a) through (g). **(40 CFR 63.4552(a))**

6. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall demonstrate continuous compliance with the applicable organic HAP emission limit in 40 CFR 63.4490, for each compliance period, according to the procedures in 40 CFR 63.4561. **(40 CFR 63.4563(a))**
7. During the performance test required by 40 CFR 63.4560, the permittee shall perform the applicable monitoring and recordkeeping in accordance with 40 CFR 63.4567 to establish the emission capture system and add-on control device operating limits required by 40 CFR 63.4492. **(40 CFR 63.4567)**
8. For any coating operation(s) using the emission rate with add-on controls option, the permittee shall install, operate, and maintain each Continuous Parameter Monitoring System (CPMS) according to the requirements of 40 CFR 63.4568(a). If the capture system contains a bypass line, the permittee shall comply with the requirements of 40 CFR 63.4568(b). **(40 CFR 63.4568)**

## **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 the compliant material option, the permittee shall report a deviation, as specified in 40 CFR 63.4510(c)(6) and 40 CFR 63.4520(a)(5), for the use of any coating, thinner or cleaning material which does not meet the criteria specified in 40 CFR 63.4542(a). **(40 CFR 63.4542(b))**
5. For the emission rate without add-on controls, the permittee shall report a deviation, as specified in 40 CFR 63.4510(c)(6) and 40 CFR 63.4520(a)(6), if the organic HAP emission rate for any compliance period exceeds the applicable emission limit specified in 40 CFR 63.4490. **(40 CFR 63.4552(b))**
6. For the emission rate with add-on controls option, the permittee shall report the following as deviations as specified in 40 CFR 63.4510(c)(6) and 40 CFR 63.4520(a)(7):
  - a. The organic HAP emission rate for any compliance period exceeds the applicable emission limit specified in 40 CFR 63.4490; **(40 CFR 63.4563(b))**
  - b. An operating parameter is out of the allowed range; **(40 CFR 63.4563(c)(1))**
  - c. Any control system by-pass line, for which liquid-liquid material balances are not carried out, is opened; **(40 CFR 63.4563(d))**
  - d. Deviations from work practice standards occur. **(40 CFR 63.4563(e))**
7. The permittee shall submit the 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), an initial notification and a notification of compliance status as specified in 40 CFR 63.4510. **(40 CFR Part 63, Subparts A and PPPP)**
8. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.4520(a). Each semiannual compliance report shall identify which coating operation(s) used each compliance option, and if there were no deviations from the emission limitations in 40 CFR 63.4490, include a statement that the coating operations were in compliance. **(40 CFR 63.4520(a), 40 CFR 63.4542(c), 40 CFR 63.4552(c), 40 CFR 63.4563(f))**

9. The permittee must submit the following:
- a. Within 60 days after the date of completing each performance test for emission capture systems and add-on control devices, the results of the performance tests required by 40 CFR Part 63, Subpart PPPP to the USEPA via the Compliance and Emissions Data Reporting Interface (CEDRI). The CEDRI interface can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). Performance test data must be submitted in the file format generated through use of the USEPA's Electronic Reporting Tool (ERT) (see <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>). Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. For data collected using test methods not listed on the ERT Website, the permittee must submit the results of the performance test to the USEPA at the appropriate address listed in 40 CFR 63.13. **(40 CFR 63.4520(b) and (d))**
  - b. Initial notifications required in 40 CFR 63.9(b) and the notification of compliance status required in 40 CFR 63.9(h) and 40 CFR 63.4510(c) to the USEPA via the CEDRI. The CEDRI interface can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The permittee must upload to CEDRI an electronic copy of each applicable notification in portable document format (PDF). The applicable notification must be submitted by the deadline specified in this subpart, regardless of the method in which the reports are submitted. **(40 CFR 63.4520(e))**
  - c. On and after January 5, 2021, or once the reporting template has been available on the CEDRI website for 1-year, whichever date is later, the semiannual compliance report required in 40 CFR 63.4520(a) to the USEPA via the CEDRI. The CEDRI interface can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The permittee must use the appropriate electronic template on the CEDRI website for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>). The date report templates become available will be listed on the CEDRI website. If the reporting form for the semiannual compliance report specific to this subpart is not available in CEDRI at the time that the report is due, the permittee must submit the report to the USEPA at the appropriate addresses listed in 40 CFR 63.13. Once the form has been available in CEDRI for 1 year begin submitting all subsequent reports via CEDRI. **(40 CFR 63.4520(f))**
10. The permittee must report the results of performance tests for emission capture systems and add-on control devices within 60 days after the completion of the performance tests. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office in a format approved by the AQD. **(R 336.2001(5), 40 CFR 63.4520(b))**

See Appendix 8

### **VIII. STACK/VENT RESTRICTION(S)**

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 PPPP for Surface Coating of Plastic Parts and Products. **(40 CFR Part 63, Subparts A and PPPP)**

**FG-MACT DDDDD**  
**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

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

Three (3) natural gas-fired watertube boilers associated with the phosphate lines. Each boiler is rated at 3.3 MMBTU/hr, is considered to be a new gas 1 fuel subcategory boiler at a major source of HAPs and provides process steam heat to the phosphate lines.

**Emission Units:**

Equal to or less than 5 MMBTU/hr and only burns gaseous or light liquid fuels	Three steam boiler portion of FG-PHOSPHATELINES (EU-PHOSPHATE1, EU-PHOSPHATE2, EU-PHOSPHATE3, EU-PHOS-PROTO)
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**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

NA

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee must, for boilers or process heaters with a heat input capacity of less than or equal to 5 MMBTU/hr, conduct a 5-year tune-up according to 40 CFR 63.7540(a)(12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The burner inspection may be delayed until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. **(40 CFR 63.7500(d) or (e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(12), 40 CFR Part 63, Subpart DDDDD, Table 3.1)**
2. The permittee must conduct a tune-up of each boiler or process heater as specified in the following: **(40 CFR 63.7540(a)(11) or (12))**
  - a. As applicable, inspect the burner and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune-up or may delay the burner inspection until the next scheduled unit shutdown. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
  - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**
  - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The permittee may delay the inspection until the next scheduled unit shutdown. **(40 CFR 63.7540(a)(10)(iii))**

- d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
  - e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**
3. If the unit is not operated on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
  4. At all times, the permittee must operate and maintain each affected small 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

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

#### **VII. REPORTING**

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

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must submit boiler or process heater tune-up compliance reports to the appropriate AQD District Office and must be postmarked or submitted by March 15<sup>th</sup> of the year following the applicable 5-year period starting from January 1 of the year following the previous tune-up to December 31 (of the latest tune-up year). Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to EPA Region 5. **(40 CFR 63.7550(b), 40 CFR 63.7550(h)(3))**
5. The permittee must include the following information in the compliance report. **(40 CFR 63.7550(c)(1))**
  - a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
  - b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
  - c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
  - d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done biennially or on a 5-year period 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))**

**See Appendix 8**

**VIII. STACK/VENT RESTRICTION(S)**

NA

**IX. OTHER REQUIREMENT(S)**

1. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(40 CFR Part 63, Subparts A and DDDDD)**

**FG-MACT T  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Each individual batch vapor cleaning machine with a solvent/air interface that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform or any combination of these halogenated HAP solvents in a total concentration greater than 5% by weight as a cleaning and/or drying agent as specified in 40 CFR Part 63, Subpart T, 40 CFR 63.460(a).

**Emission Unit:** EU-DEGREASER

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Halogenated HAP Solvent	150 kilograms/square meters/month <sup>A</sup>	3-month rolling average	New and Existing Batch Vapor Solvent Cleaning Machine (SCM)	SC V.1, VI.1	40 CFR 63.464(a)(1)(ii)

<sup>A</sup> Alternative to meeting the requirements of 40 CFR 63.463.

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. If the cleaning machine has a solvent/air interface, as defined in 40 CFR 63.461, the permittee shall maintain a log of solvent additions and deletions for each solvent cleaning machine. **(40 CFR 63.464(a)(1)(i))**

**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. If the permittee is using testing to determine the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste (SSR), the tests shall be conducted using EPA Reference Method 25d. **(40 CFR 63.465(c)(2)(i))**

**VI. MONITORING/RECORDKEEPING**

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

1. For each batch vapor or in-line solvent cleaning machine, the permittee shall comply with the requirements as specified in the following table:

Machine Type	Requirements
Batch vapor, in-line vapor, and in-line cold machines using <u>overall</u> emission limits specified in 40 CFR 63.464	<p>a. On the first operating day of every month, ensure that the machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions. <b>(40 CFR 63.465(b))</b></p> <p>b. On the first operating day of every month, using the records of all solvent additions and deletions for the previous monthly reporting period required under 40 CFR 63.464(a), determine solvent emissions (E<sub>i</sub>) using equation 2 in 40 CFR 63.465(c)(1) for cleaning machines with a solvent/air interface. <b>(40 CFR 63.465(c)(1))</b></p> <p>c. On the first operating day of every month, determine the total amount of halogenated HAP solvent removed in solid waste using the method specified in 40 CFR 63.465(c)(2)(i) or (ii). <b>(40 CFR 63.465(c)(2))</b></p> <p>d. On the first operating day of every month, determine the monthly rolling average for the 3-month period ending with the most recent reporting period using Equation 4 in 40 CFR 63.465(c)(3). <b>(40 CFR 63.465(c)(3))</b></p>

2. For each batch vapor or in-line cleaning machine, the permittee shall maintain the following records either in electronic or written form for a period of 5 years: **(40 CFR 63.467(c))**

Machine Type	Record
Batch vapor and in-line cleaning machines using overall emission limits specified in 40 CFR 63.464	<p>a. The dates and amounts of solvent added to the solvent cleaning machine. <b>(40 CFR 63.467(c)(1))</b></p> <p>b. The solvent composition of wastes removed from cleaning machines as determined using the procedure described in 40 CFR 63.465(c)(2). <b>(40 CFR 63.467(c)(2))</b></p> <p>c. Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations. <b>(40 CFR 63.467(c)(3))</b></p>

**VII. REPORTING**

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

4. The permittee shall submit a solvent emission report every year containing the following: **(40 CFR 63.468(g))**

Machine Type	Requirements
Batch vapor, in-line vapor and in-line cold using overall emission limits to comply	a. The size and type of each unit subject to Subpart T (solvent/air interface area or cleaning capacity). <b>(40 CFR 63.468(g)(1))</b> b. The average monthly solvent consumption for the solvent cleaning machine in kilograms per month. <b>(40 CFR 63.468(g)(2))</b> c. The 3-month monthly rolling average solvent emission estimates calculated each month using the method as described in 40 CFR 63.465(c). <b>(40 CFR 63.468(g)(3))</b>

5. The permittee shall submit an exceedance report to the AQD District Supervisor semiannually except when, determined on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under 40 CFR 63.468(i) is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information as follows: **(40 CFR 63.468(h))**

- a. If an exceedance has occurred, the reason for the exceedance and a description of the actions taken. **(40 CFR 63.468(h)(2))**
- b. If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report. **(40 CFR 63.468(h)(3))**

See Appendix 8

**VIII. STACK/VENT RESTRICTION(S)**

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 T for Halogenated Solvent Cleaning. **(40 CFR Part 63, Subparts A and T)**

**FG-RULE287(2)(c)  
 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 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:** EU-DS6

**Emission Units installed prior to December 20, 2016:** EU-DS4, EU-DS5, EU-DS7, EU-TS1, EU-TS2

**POLLUTION CONTROL EQUIPMENT**

NA

**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 in FG-RULE287(2)(c)	<b>R 336.1287(2)(c)(i)</b>

**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, as applicable. **(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)**

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 <sub>2</sub> e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
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 <sub>2</sub> 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 <sub>x</sub>	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 <sub>2</sub>	Sulfur Dioxide
SDS	Safety Data Sheet	TAC	Toxic Air Contaminant
SNCR	Selective Non-Catalytic Reduction	Temp	Temperature
SRN	State Registration Number	THC	Total Hydrocarbons
TEQ	Toxicity Equivalence Quotient	tpy	Tons per year
USEPA/EPA	United States Environmental Protection Agency	µg	Microgram
VE	Visible Emissions	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**

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

**Appendix 4. Recordkeeping**

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

**Appendix 5. Testing Procedures**

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

**Appendix 6. Permits to Install**

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-N7256-2017. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (\*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-N7256-2017b is being reissued as Source-Wide PTI No. MI-PTI-N7256-2024.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
NA	201700158 / January 18, 2018	A State-Only Modification was requested to change, in Flexible Group FG-FACILITY, regarding SC VI.3, the referenced files to be kept for FG-FACILITY, to include the entire facility instead of listing specific Flexible Groups the Condition applied to.	FG-FACILITY
NA	201700159 / January 18, 2018	An Administrative Amendment pursuant to R 336.1216(1)(a)(i) was requested to clarify: the correct exempt tumble spray (TS) lines in the emission unit summary tables; clarify the Conditions that were mistakenly indicated as federally enforceable Conditions, but were actually state-only enforceable, established pursuant to Rule 201(1)(b); and remove a non-existent Condition referenced in SC VII.4.  The Company had requested to change SC VII.4 so that only calculation records were required to be submitted to the AQD, however, AQD informed the	EU-DS1 EU-DS2 EU-DS3 EU-H1 EU-H2 EU-H3 EU-CE2 EU-CE3 EU-CE4 FG-FACILITY FG-MACT MMMM FG-MACT PPPP FG-RULE287(c)

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
		Company that a PTI would be necessary for that change, and therefore the additional changes requested for SC VII.4 were not completed at this time through the Administrative Amendment.	
146-19	202000125 / November 23, 2020	<p>A Minor Modification pursuant to R 336.1216(2) was requested to incorporate PTI No. 146-19 into the ROP, which was to install two new coating lines: one spindle line with two automatic spray booths (EU-CE6) and one tumble spray line (EU-TS5). The two lines are to be constructed with a Permanent Total Enclosure (PTE) and exhausted to the existing Regenerative Thermal Oxidizer (RTO) for control. The new emission units (EU-CE6 and EU-TS5) are subject 40 CFR Part 63, Subpart MMMM for Surface Coating of Miscellaneous Metal Parts and Products and 40 CFR Part 63, Subpart PPPP for Surface Coating of Plastic Parts and Products.</p> <p>The two new lines were incorporated into the existing 49.7 tpy limit for VOCs, acetone and methyl acetate combined and 4.6 tpy Methyl isobutyl ketone (MIBK) limit already placed on FG-RTO. The changes also increase the ethylbenzene limit in the Source-Wide Conditions to less than 8.9 tpy based on the increased capacity. During this Modification, the FG-FACILITY Conditions were moved to Part B of the ROP as Source-Wide Conditions, to clarify the ethylbenzene limit includes all processes and equipment source-wide.</p>	<p>Source-Wide Conditions          EU-CE6          EU-TS5          FG-MACT MMMM          FG-MACT PPPP</p>
184-20*		<p>Incorporate PTI No. 184-20 into the ROP which was to install one new spindle coating line (EU-CE7). The new line is to be constructed with a Permanent Total Enclosure (PTE) and exhausted to the existing Regenerative Thermal Oxidizer (RTO) for control. EU-CE7 is subject 40 CFR Part 63, Subpart MMMM for Surface Coating of Miscellaneous Metal Parts and Products and 40 CFR Part 63, Subpart PPPP for Surface Coating of Plastic Parts and Products.</p> <p>EU-CE7 was incorporated into the existing 49.7 tpy limit for VOCs, acetone and methyl acetate combined and 4.6 tpy Methyl isobutyl ketone (MIBK) limit already placed on FG-RTO.</p>	<p>EU-CE7          FG-RTO          FG-MACT MMMM          FG-MACT PPPP</p>

## Appendix 7. Emission Calculations

There are no specific emission calculations to be used for this ROP. 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.