
**Title V Renewable Operating Permit –
Renewal/Amendment Application
and Technical Support
Document - Update**

Prepared For:

FCA US LLC
WARREN TRUCK ASSEMBLY PLANT

21500 Mound Road
Warren, Michigan 48091
Macomb County

Prepared by:



GZA GeoEnvironmental, Inc.
19500 Victor Parkway, Suite 300
Livonia, Michigan 48152

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TABLE OF CONTENTS

1.0 PROJECT BACKGROUND	1
2.0 RENEWABLE OPERATING PERMIT - RENEWAL APPLICATION	2
2.1 <i>INSIGNIFICANT AND EXEMPT EMISSION UNITS</i>	2
2.2 <i>MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) STANDARDS</i>	2
2.3 <i>COMPLIANCE ASSURANCE MONITORING</i>	3
2.4 <i>PROPOSED CHANGES TO EMISSION UNITS/FLEXIBLE GROUPS</i>	3
3.0 CONCLUSION	4

Appendix A: ROP Renewal Application Forms

Appendix B: Marked-up Copy of Current ROP

1.0 PROJECT BACKGROUND

FCA US LLC owns and operates the Warren Truck Assembly Plant (WTAP) located at 21500 Mound Road, Warren, Macomb County, Michigan. The facility consists of an automobile and light duty truck manufacturing complex which operates pursuant to the conditions of Renewable Operating Permit (ROP) No. MI-ROP-B2767-2016 issued on December 6, 2016.

Pursuant to State of Michigan Rule 336.1210(7), a stationary source that renews its Title V permit must submit an administratively complete application not more than 18 months, but not less than 6 months, before the expiration date of the current ROP. WTAP's current ROP expired on December 6, 2021. An ROP renewal application was submitted to the Michigan Department of Energy, Great Lakes and Environment-Air Quality Division (EGLE-AQD) on May 12, 2021 and the application was deemed administratively complete on May 17, 2021. This application serves to update and revise that application in accordance with AQD requests.

At the time of issuance of the current ROP, activities at WTAP consisted of a body shop, paint shop, and trim/chassis/final department to produce saleable automobiles for FCA. In 2020 WTAP commenced construction and operation of an additional paint shop that, in combination with the ongoing modernization of the existing paint shop, allows the facility to accommodate production of multiple full-size light duty truck models. PTI 13-19A was issued in August of 2019 for the modernization of the existing paint shop (east paint shop) and the new paint shop (west paint shop). Minor revisions to the PTI were applied for and the final PTI 13-19B was issued on June 23, 2021.

This ROP renewal application seeks to incorporate PTI 13-19B into the ROP as an administrative permit amendment (in accordance with R336.1216(1)(a)(v)), addressing certain existing flexible groups that are in both the ROP and PTI, and streamlining the renewal/amendment process.

2.0 RENEWABLE OPERATING PERMIT – RENEWAL/AMENDMENT APPLICATION

This ROP renewal and administrative amendment application was created using the EGLE-AQD’s Renewable Operating Permit Renewal Application Form. The application was designed to renew the current ROP and incorporate PTI 13-19B into the ROP. The sections below provide details regarding the intent of the application in creating a streamlined ROP for the facility while incorporating the necessary application elements.

2.1 Insignificant and Exempt Emission Units

A complete Title V ROP application must identify significant air emission units/groups at a facility that are subject to regulatory requirements, including a classification of the specific applicable requirement (i.e., permit terms, consent orders, consent judgments, state or federal rule) as it applies to the emission source. Insignificant emission units may also need to be included in a complete application, depending upon the activity.

Insignificant emission units exempt from inclusion in the application are defined in MI Rules 336.1212(2), 212(3) or 212(4). Emission units defined in Rule 212(2) do not need to be included in the ROP application. Emission units defined in Rule 212(3) need not be included in a complete Title V ROP application unless the process or process equipment is subject to applicable requirements that include a process-specific emission limitation or standard. Emission units defined in Rule 212(4) are exempt from the requirement to obtain a PTI, however the emission units still need to be included in an administratively complete application. Part D of the ROP Renewal Application form is designed to identify emission units at WTAP that are considered exempt but must be identified within the ROP Application pursuant to Rule 212(4). There are no such emission units at WTAP, as indicated in Section D.1.

2.2 Maximum Achievable Control Technology (MACT) Standards

Pursuant to 40 CFR 63, sources that are considered either major or areas sources of hazardous air pollutants (HAPs) may be subject to National Emission Standards for Hazardous Air Pollutants (NESHAP), commonly referred to as MACT (Maximum Achievable Control Technology) standards.

WTAP is considered a major source of HAPs because actual emissions exceed the major source thresholds. The current ROP incorporates provisions specific to 40 CFR Subpart IIII (Surface Coating of Automobile and Light Duty Trucks, “Auto MACT”), 40 CFR 63 EEEE (Organic Liquid Distribution, “OLD” MACT), 40 CFR 63 Subpart ZZZZ, (NESHAP for Reciprocating Internal Combustion Engines “RICE MACT”), and 40 CFR 63 DDDDD (NESHAP for Industrial, Commercial and Institutional Boilers “Boiler MACT”).

The PTI recently issued (PTI 13-19B) contains requirements specific to Auto MACT, RICE MACT and Boiler MACT, some of which have been updated in the AQD’s ROP templates since issuance of the PTI. This application, as demonstrated in the attached redlined ROP, was developed to combine the applicable emission units subject to these three MACT standards into flexible groups addressing emission units from both the east and west paint shops and any other subject emission units.

2.3 Compliance Assurance Monitoring

A stationary source may be subject to the Compliance Assurance Monitoring (CAM) Rule (40 CFR Part 64) if the source is required to obtain an ROP and has emission units for which the following conditions are met:

- The emission unit is subject to a pollutant-specific emission limitation or standard.
- The emission unit uses a control device to achieve compliance with the pollutant-specific emission limitation or standard.
- The emission unit has potential pre-control emissions which are over 100 percent of the major source threshold amount (at a level considered to be major under the ROP Program) for the applicable pollutant.

WTAP currently relies on VOC emission control devices that operate in accordance with the CAM requirements contained within the current ROP. An updated CAM plan which addresses both the east and west paint shop control devices has been included as part of this submittal. Based on a review of the pollutants emitted and the CAM triggering conditions, the facility is not subject to CAM for any other pollutant.

2.4 Proposed Changes to Emission Units/Flexible Groups

As a result of incorporating PTI 13-19B, there are many changes to the current ROP that will be addressed by essentially a wholesale replacement of the terms and conditions in the current ROP. There are also a few sections of the ROP that will remain unchanged, as the changes associated with PTI 13-19B did not address every existing emission unit or flexible group (e.g., general assembly gas fill). There were other updates that have been included in the official redlined version of the ROP, including updates to AQD templates. The following templates have been updated by AQD since the last renewal and were reviewed and included, as appropriate, in the ROP renewal application.

- FGBOILERMACT5D > 10MMBtu
- FGBOILERMACT5D < 10MMBtu
- FGRULE287(2)(c)
- FGRULE290

Proposed changes to PTI 13-19B are included in the redline markup of the ROP, included in Appendix B. Such proposed changes include:

- Deletion of emission limits no longer applicable due to completion of new construction
- Deletion of notification and testing conditions already satisfied
- Deletion of conditions related to equipment that has been shut down
- Miscellaneous grammatical edits

In addition, there are certain clarifications that FCA is requesting at this time as noted below:

- Clarification that observation and flash areas are not equipped with water wash system but rely on dry filtration to control particulate matter. This is consistent with the PTI application, as no credit for particulate removal was taken in the original PTI application.
- Clarification as to which coating booth zones are abated and which are not, consistent with the original PTI application, as follows:
 - Topcoat West: Basecoat heated flash is abated and ambient flash is exhausted with observation. PTI modeled airflow rates are consistent with design/built rates.
 - Topcoat East: Basecoat flash occurs in the extended length of the booth, which is abated. There is no ambient flash in basecoat.

3.0 CONCLUSION

The ROP renewal/amendment application has appropriately identified the current applicable requirements for emission sources at WTAP. These applicable requirements are based upon the sources included in the recent PTI 13-19B and in the current ROP. This Title V ROP renewal/amendment application and update for WTAP has been submitted to the EGLE-AQD in accordance with the application submittal schedule as agreed upon with AQD staff.

APPENDIX A

ROP Renewal Application Forms
(Including copies of required PTIs, plans, etc.)



RENEWABLE OPERATING PERMIT RENEWAL APPLICATION FORM

This information is required by Article II, Chapter 1, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Refer to instructions for additional information to complete the Renewable Operating Permit Renewal Application Form.

GENERAL INSTRUCTIONS

This application form should be submitted as part of an administratively complete application package for renewal of a Renewable Operating Permit (ROP). This application form consists of nine parts. Parts A – H must be completed for all applications and must also be completed for each section of a sectioned ROP. Answer all questions in all parts of the form unless directed otherwise. Detailed instructions for this application form can be found at <http://michigan.gov/air> (select the Permits Tab, “Renewable Operating Permits (ROP)/Title V”, then “ROP Forms & Templates”).

PART A: GENERAL INFORMATION

Enter information about the source, owner, contact person and the responsible official.

SOURCE INFORMATION

SRN B2767	SIC Code 3711	NAICS Code	Existing ROP Number MI-ROP-B2767-2016	Section Number (if applicable)
Source Name FCA US LLC – Warren Truck Assembly Plant				
Street Address 21500 Mound Road				
City Warren	State MI	ZIP Code 48091	County Macomb	
Section/Town/Range (if address not available)				
Source Description Automobile and light duty truck assembly operation consisting of a body shop; paint shops; and general assembly departments.				
<input type="checkbox"/> Check here if any of the above information is different than what appears in the existing ROP. Identify any changes on the marked-up copy of your existing ROP.				

OWNER INFORMATION

Owner Name FCA US LLC	Section Number (if applicable)			
Mailing address (<input type="checkbox"/> check if same as source address) 800 Chrysler Drive				
City Auburn Hills	State MI	ZIP Code 48326	County Oakland	Country USA

Check here if any information in this ROP renewal application is confidential. Confidential information should be identified on an Additional Information (AI-001) Form.

PART A: GENERAL INFORMATION (continued)

At least one contact and responsible official must be identified. Additional contacts and responsible officials may be included if necessary.

CONTACT INFORMATION

Contact 1 Name Bradley Wagnier		Title EHS Specialist		
Company Name & Mailing address (<input checked="" type="checkbox"/> check if same as source address)				
City	State	ZIP Code	County	Country
Phone number 248-944-5263		E-mail address Bradley.wagnier@stellantis.com		

Contact 2 Name (optional) Laura Hall		Title Environmental Lead		
Company Name & Mailing address (<input checked="" type="checkbox"/> check if same as source address)				
City	State	ZIP Code	County	Country
Phone number 248-512-3236		E-mail address Laura.hall@stellantis.com		

RESPONSIBLE OFFICIAL INFORMATION

Responsible Official 1 Name Andrew Ragalyi		Title Plant Manager		
Company Name & Mailing address (<input checked="" type="checkbox"/> check if same as source address)				
City	State	ZIP Code	County	Country
Phone number 586-497-3954		E-mail address Andrew.ragalyi@stellantis.com		

Responsible Official 2 Name (optional)		Title		
Company Name & Mailing address (<input type="checkbox"/> check if same as source address)				
City	State	ZIP Code	County	Country
Phone number		E-mail address		

<input type="checkbox"/> Check here if an AI-001 Form is attached to provide more information for Part A. Enter AI-001 Form ID:

PART B: APPLICATION SUBMITTAL and CERTIFICATION by Responsible Official

Identify the items that are included as part of your administratively complete application in the checklist below. For your application to be complete, it must include information necessary to evaluate the source and to determine all applicable requirements. Answer the compliance statements as they pertain to all the applicable requirements to which the source is subject. The source's Responsible Official must sign and date this form.

Listing of ROP Application Contents. Check the box for the items included with your application.	
<input checked="" type="checkbox"/> Completed ROP Renewal Application Form (and any AI-001 Forms) (required)	<input checked="" type="checkbox"/> Compliance Plan/Schedule of Compliance
<input checked="" type="checkbox"/> Mark-up copy of existing ROP using official version from the AQD website (required)	<input checked="" type="checkbox"/> Stack information
<input checked="" type="checkbox"/> Copies of all Permit(s) to Install (PTIs) that have not been incorporated into existing ROP (required)	<input type="checkbox"/> Acid Rain Permit Initial/Renewal Application
<input checked="" type="checkbox"/> Criteria Pollutant/Hazardous Air Pollutant (HAP) Potential to Emit Calculations	<input type="checkbox"/> Cross-State Air Pollution Rule (CSAPR) Information
<input type="checkbox"/> MAERS Forms (to report emissions not previously submitted)	<input type="checkbox"/> Confidential Information
<input type="checkbox"/> Copies of all Consent Order/Consent Judgments that have not been incorporated into existing ROP	<input checked="" type="checkbox"/> Paper copy of all documentation provided (required)
<input checked="" type="checkbox"/> Compliance Assurance Monitoring (CAM) Plan	<input checked="" type="checkbox"/> Electronic documents provided (optional)
<input checked="" type="checkbox"/> Other Plans (e.g., Malfunction Abatement, Fugitive Dust, Operation and Maintenance, etc.)	<input type="checkbox"/> Other, explain:

Compliance Statement

This source is in compliance with **all** of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP. Yes No

This source will continue to be in compliance with all of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP. Yes No

This source will meet in a timely manner applicable requirements that become effective during the permit term. Yes No

The method(s) used to determine compliance for each applicable requirement is/are the method(s) specified in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and all other applicable requirements not currently contained in the existing ROP.

If any of the above are checked No, identify the emission unit(s) or flexible group(s) affected and the specific condition number(s) or applicable requirement for which the source is or will be out of compliance at the time of issuance of the ROP renewal on an AI-001 Form. Provide a compliance plan and schedule of compliance on an AI-001 Form.

Name and Title of the Responsible Official (Print or Type)

Andrew Ragalyi, Plant Manager

As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.


Signature of Responsible Official

1/31/22
Date

PART C: SOURCE REQUIREMENT INFORMATION

Answer the questions below for specific requirements or programs to which the source may be subject.

C1.	Actual emissions and associated data from all emission units with applicable requirements (including those identified in the existing ROP, Permits to Install and other equipment that have not yet been incorporated into the ROP) are required to be reported in MAERS. Are there any emissions and associated data that have not been reported in MAERS for the most recent emissions reporting year? If Yes , identify the emission unit(s) that was/were not reported in MAERS on an AI-001 Form. Applicable MAERS form(s) for unreported emission units must be included with this application.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
C2.	Is this source subject to the federal regulations on ozone-depleting substances? (40 CFR Part 82)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C3.	Is this source subject to the federal Chemical Accident Prevention Provisions? (Section 112(r) of the Clean Air Act Amendments, 40 CFR Part 68) If Yes , a Risk Management Plan (RMP) and periodic updates must be submitted to the USEPA. Has an updated RMP been submitted to the USEPA?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
C4.	Has this stationary source added or modified equipment since the last ROP renewal that changes the potential to emit (PTE) for criteria pollutant (CO, NO _x , PM ₁₀ , PM _{2.5} , SO ₂ , VOC, lead) emissions? If Yes , include potential emission calculations (or the PTI and/or ROP revision application numbers, or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form. If No , criteria pollutant potential emission calculations do not need to be included.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C5.	Has this stationary source added or modified equipment since the last ROP renewal that changes the PTE for hazardous air pollutants (HAPs) regulated by Section 112 of the federal Clean Air Act? If Yes , include potential emission calculations (or the PTI and/or ROP revision application numbers or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form. Fugitive emissions must be included in HAP emission calculations. If No , HAP potential emission calculations do not need to be included.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C6.	Are any emission units subject to the Cross-State Air Pollution Rule (CSAPR)? If Yes , identify the specific emission unit(s) subject to CSAPR on an AI-001 Form.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
C7.	Are any emission units subject to the federal Acid Rain Program? If Yes , identify the specific emission unit(s) subject to the federal Acid Rain Program on an AI-001 Form. Is an Acid Rain Permit Renewal Application included with this application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
C8.	Are any emission units identified in the existing ROP subject to compliance assurance monitoring (CAM)? If Yes , identify the specific emission unit(s) subject to CAM on an AI-001 Form. If a CAM plan has not been previously submitted to EGLE, one must be included with the ROP renewal application on an AI-001 Form. If the CAM Plan has been updated, include an updated copy. Is a CAM plan included with this application? If a CAM Plan is included, check the type of proposed monitoring included in the Plan: 1. Monitoring proposed by the source based on performance of the control device, or 2. Presumptively Acceptable Monitoring, if eligible	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <input type="checkbox"/>
C9.	Does the source have any plans such as a malfunction abatement plan, fugitive dust plan, operation/maintenance plan, or any other monitoring plan that is referenced in an existing ROP, Permit to Install requirement, or any other applicable requirement? If Yes , then a copy must be submitted as part of the ROP renewal application.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C10.	Are there any specific requirements that the source proposes to be identified in the ROP as non-applicable? If Yes , then a description of the requirement and justification must be submitted as part of the ROP renewal application on an AI-001 Form.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/>	Check here if an AI-001 Form is attached to provide more information for Part C. Enter AI-001 Form ID: AI- PTE AI- CAM, AI-MAP, AI-WPP	

PART E: EXISTING ROP INFORMATION

Review all emission units and applicable requirements (including any source wide requirements) in the existing ROP and answer the questions below as they pertain to all emission units and all applicable requirements in the existing ROP.

<p>E1. Does the source propose to make any additions, changes or deletions to terms, conditions and underlying applicable requirements as they appear in the existing ROP? If <u>Yes</u>, identify changes and additions on Part F, Part G and/or Part H.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>E2. For each emission unit(s) identified in the existing ROP, <u>all</u> stacks with applicable requirements are to be reported in MAERS. Are there any stacks with applicable requirements for emission unit(s) identified in the existing ROP that were <u>not</u> reported in the most recent MAERS reporting year? If <u>Yes</u>, identify the stack(s) that was/were not reported on applicable MAERS form(s).</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>E3. Have any emission units identified in the existing ROP been modified or reconstructed that required a PTI? If <u>Yes</u>, complete Part F with the appropriate information.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>E4. Have any emission units identified in the existing ROP been dismantled? If <u>Yes</u>, identify the emission unit(s) and the dismantle date in the comment area below or on an AI-001 Form.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments:</p> <p>The following EUs have been dismantled and/or are no longer operational:</p> <ul style="list-style-type: none"> • EU-MECH-WASHER; removed Jan 2020 • EU-BLACKOUT BOOTH; no longer operational as of Oct 2008 • EU-TUTONE; removed Jan 2020 • EU-TEMPBOILER1; removed Feb 2019 • EU-TEMPBOILER2; removed Feb 2019 	
<p><input type="checkbox"/> Check here if an AI-001 Form is attached to provide more information for Part E. Enter AI-001 Form ID: AI-</p>	

PART F: PERMIT TO INSTALL (PTI) INFORMATION

Review all emission units and applicable requirements at the source and answer the following questions as they pertain to **all** emission units with PTIs. Any PTI(s) identified below must be attached to the application.

<p>F1. Has the source obtained any PTIs where the applicable requirements from the PTI have not been incorporated into the existing ROP? If <u>Yes</u>, complete the following table. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If <u>No</u>, go to Part G.</p>			
Permit to Install Number	Emission Units/Flexible Group ID(s)	Description (Include Process Equipment, Control Devices and Monitoring Devices)	Date Emission Unit was Installed/ Modified/ Reconstructed
13-19B	Multiple	Process equipment and control devices in 13-19B which are not included in the existing ROP. See attached	Constructed – 2019 Operation – 2/2021
<p>F2. Do any of the PTIs listed above change, add, or delete terms/conditions to established emission units in the existing ROP? If <u>Yes</u>, identify the emission unit(s) or flexible group(s) affected in the comments area below or on an AI-001 Form and identify all changes, additions, and deletions in a mark-up of the existing ROP. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>F3. Do any of the PTIs listed above identify new emission units that need to be incorporated into the ROP? If <u>Yes</u>, submit the PTIs as part of the ROP renewal application on an AI-001 Form, and include the new emission unit(s) or flexible group(s) in the mark-up of the existing ROP. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>F4. Are there any stacks with applicable requirements for emission unit(s) identified in the PTIs listed above that were <u>not</u> reported in MAERS for the most recent emissions reporting year? If <u>Yes</u>, identify the stack(s) that were not reported on the applicable MAERS form(s). <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>F5. Are there any proposed administrative changes to any of the emission unit names, descriptions or control devices in the PTIs listed above for any emission units not already incorporated into the ROP? If <u>Yes</u>, describe the changes on an AI-001 Form. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>Comments: PTI 13-19B is included herein as AI-PTI13-19B</p>			
<p><input checked="" type="checkbox"/> Check here if an AI-001 Form is attached to provide more information for Part F. Enter AI-001 Form ID: AI-PTI13-19B</p>			

PART G: EMISSION UNITS MEETING THE CRITERIA OF RULES 281(2)(h), 285(2)(r)(iv), 287(2)(c), OR 290

Review all emission units and applicable requirements at the source and answer the following questions.

G1. Does the source have any new and/or existing emission units which do not already appear in the existing ROP and which meet the criteria of Rules 281(2)(h), 285(2)(r)(iv), 287(2)(c), or 290.
 If Yes, identify the emission units in the table below. If No, go to Part H. Yes No
Note: If several emission units were installed under the same rule above, provide a description of each and an installation/modification/reconstruction date for each.

Origin of Applicable Requirements	Emission Unit Description – <i>Provide Emission Unit ID and a description of Process Equipment, Control Devices and Monitoring Devices</i>	Date Emission Unit was Installed/ Modified/ Reconstructed
<input type="checkbox"/> Rule 281(2)(h) or 285(2)(r)(iv) cleaning operation		
<input type="checkbox"/> Rule 287(2)(c) surface coating line		
<input type="checkbox"/> Rule 290 process with limited emissions		

Comments:

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

PART H: REQUIREMENTS FOR ADDITION OR CHANGE

Complete this part of the application form for all proposed additions, changes or deletions to the existing ROP. This includes state or federal regulations that the source is subject to and that must be incorporated into the ROP or other proposed changes to the existing ROP. **Do not include additions or changes that have already been identified in Parts F or G of this application form.** If additional space is needed copy and complete an additional Part H.

Complete a separate Part H for each emission unit with proposed additions and/or changes.

H1. Are there changes that need to be incorporated into the ROP that have not been identified in Parts F and G? If <u>Yes</u> , answer the questions below.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
H2. Are there any proposed administrative changes to any of the existing emission unit names, descriptions or control devices in the ROP? If <u>Yes</u> , describe the changes in questions H8 – H16 below and in the affected Emission Unit Table(s) in the mark-up of the ROP.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H3. Does the source propose to add a new emission unit or flexible group to the ROP not previously identified in Parts F or G? If <u>Yes</u> , identify and describe the emission unit name, process description, control device(s), monitoring device(s) and applicable requirements in questions H8 – H16 below and in a new Emission Unit Table in the mark-up of the ROP. See instructions on how to incorporate a new emission unit/flexible group into the ROP.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H4. Does the source propose to add new state or federal regulations to the existing ROP? If <u>Yes</u> , on an AI-001 Form, identify each emission unit/flexible group that the new regulation applies to and identify <u>each</u> state or federal regulation that should be added. Also, describe the new requirements in questions H8 – H16 below and add the specific requirements to existing emission units/flexible groups in the mark-up of the ROP, create a new Emission Unit/Flexible Group Table, or add an AQD template table for the specific state or federal requirement.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H5. Has a Consent Order/Consent Judgment (CO/CJ) been issued where the requirements were not incorporated into the existing ROP? If <u>Yes</u> , list the CO/CJ number(s) below and add or change the conditions and underlying applicable requirements in the appropriate Emission Unit/Flexible Group Tables in the mark-up of the ROP.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H6. Does the source propose to add, change and/or delete source-wide requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H7. Are you proposing to streamline any requirements? If <u>Yes</u> , identify the streamlined and subsumed requirements and the EU ID, and provide a justification for streamlining the applicable requirement below.	<input type="checkbox"/> Yes <input type="checkbox"/> No

PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

H8. Does the source propose to add, change and/or delete emission limit requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H9. Does the source propose to add, change and/or delete material limit requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H10. Does the source propose to add, change and/or delete process/operational restriction requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H11. Does the source propose to add, change and/or delete design/equipment parameter requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H12. Does the source propose to add, change and/or delete testing/sampling requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H13. Does the source propose to add, change and/or delete monitoring/recordkeeping requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No
H14. Does the source propose to add, change and/or delete reporting requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	<input type="checkbox"/> Yes <input type="checkbox"/> No

PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

H15. Does the source propose to add, change and/or delete **stack/vent restrictions**? If Yes, identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below. Yes No

H16. Does the source propose to add, change and/or delete any **other** requirements? If Yes, identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below. Yes No

H17. Does the source propose to add terms and conditions for an alternative operating scenario or intra-facility trading of emissions? If Yes, identify the proposed conditions in a mark-up of the corresponding section of the ROP and provide a justification below. Yes No

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



RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

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

SRN: B2757

Section Number (if applicable):

1. Additional Information ID
AI-CAM

Additional Information

2. Is This Information Confidential?

Yes No

Attached is the updated CAM plan for the WTAP facility, including the control equipment located in both the east and west paint shops.

FCA US, LLC Warren Truck Assembly Plant Compliance Assurance Monitoring (CAM)/O&M Plan

I. BACKGROUND

FCA US LLC Warren Truck Assembly Plant (“WTAP”) is located at 21500 Mound Road, Warren, Macomb County, Michigan. The facility consists of a truck manufacturing plant. WTAP is considered a major source of VOCs and currently relies on VOC emission control devices that operate in accordance with the CAM requirements contained within the current ROP. This CAM/O&M Plan has been updated to include the new VOC control equipment currently contained in a PTI and anticipated to be subject to the CAM Plan upon incorporation of the emission units into the ROP (anticipated 2022). CAM requirements are/will be applicable to two Regenerative Thermal Oxidizers (“RTOs”), two thermal oxidizers (“TOs”) and four concentrators.

A. Emission Units

Description: There are two topcoat processes, one each located in the “East” and “West” paint shops. Both topcoat systems apply coating to the vehicle bodies via an electrodeposition (“Ecoat”) dip tank process, and then spray application of basecoat and clearcoat (“Topcoat”). The West paint shop applies a liquid primer coating, while the East paint shop applies a powder primer. The Ecoat, West Primer and Topcoat application processes are followed by drying ovens.

B. Applicable Regulations, Emission Limit, Monitoring Requirements

Permit Number(s): MI-ROP-B2767-2016 and PTI 13-19B

Emission Limits

ROP & PTI*:

Electrodeposition (Ecoat)				
Pollutant	Limit	Time Period / Operating Scenario	Equipment	Underlying Applicable Requirements
VOC	0.04 lb/GACS	Calendar Day Average	EUECOATWEST	R 336.1205, R 336.1702(a), R 336.1908, 40 CFR 60 Subpart MM
VOC	1.1 tpy	12-month rolling time period as determined at the end of each calendar month	EUECOATWEST	R 336.1205, R 336.1702(a), R 336.1908
VOC	2.01 tpy (PTI 13-19B)	12-month rolling time period as determined at the end of each calendar month	EUECOATEAST	R 336.1205, R 336.1702(a), R 336.1908

**FCA US, LLC Warren Truck Assembly Plant
Compliance Assurance Monitoring (CAM)/O&M Plan**

Topcoat				
Pollutant	Limit	Time Period / Operating Scenario	Equipment	Underlying Applicable Requirements
VOC	2.92 lb/GACS	Calendar Day Averaging	EUPRIMERWEST	R 336.1205, R 336.1702(a), R 336.1908, 40 CFR 60 Subpart MM
VOC	21.4 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRIMERWEST	R 336.1205, R 336.1702, R 336.1908
VOC	3.53 lb/GACS	Calendar Day Averaging	EUTOPCOATWEST	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
VOC	75.3 tpy	12-month rolling time period as determined at the end of each calendar month	EUTOPCOATWEST	R 336.1205, R 336.1702(a), R 336.2908
VOC	12.3 lbs/GACS	Calendar month average	FGTOPCOATEAST	R 336.1702(a) 40 CFR 60 Subpart MM
VOC	6.8 pph	Per hour operated in a calendar month	Bake Ovens of each topcoat line (EU-COLOR-ONE)	R 336.2902
VOC	15.67 tpy	12-month rolling time period as determined at the end of each calendar month	Bake Ovens of each topcoat line (EU-COLOR-ONE)	R 336.2902
VOC	2.3 pph	Per hour operated in a calendar month	High Bake Repair bake oven (EU-REPROCESS)	R 336.2902
VOC	5.22 tpy	12-month rolling time period as determined at the end of each calendar month	High Bake Repair bake oven (EU-REPROCESS)	R 336.2902
VOC	3.53 lbs/GACS	Calendar month average	EU-COLOR-ONE (booths and oven combined)	R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
VOC	201.6 tpy	12-month rolling time period as determined at the end of each calendar month	EU-COLOR-ONE (booths and oven combined)	R 336.1702(a), R 336.2908

* - Limits are presented as final values for each subject emission unit, post all construction noted in PTI 13-19B, which will be incorporated into the ROP.

FCA US, LLC Warren Truck Assembly Plant Compliance Assurance Monitoring (CAM)/O&M Plan

Monitoring Requirements:

- RTOs and TOs combustion chambers' temperatures and concentrator desorb gas inlet temperature are monitored.

C. Control Technology

The VOC control equipment used in each paint shop is as follows:

EAST PAINT

- East concentrators and the east RTO ("RTOEast") are used for the control of VOC emissions from EU-COLOR-ONE spray booth.
- RTOEast is also used for control of VOC emissions from the east concentrators, EU-ECOATEAST tank and curing oven.
- A thermal oxidizer is used for control of VOC emissions from the EU COLOR-ONE cure oven.
- A thermal oxidizer is used for control of VOC emissions from the EU REPROCESS cure oven.

WEST PAINT

- West concentrators and the west RTO ("RTOWest") are used for control of VOC emissions from EUPRIMERWEST spray booth and ambient flash-off areas (complete in Feb 2022), and EUTOPCOATWEST spray booth and heated flash-off area.
- RTOWest is also used for control of VOC emissions from the west concentrator, EUECOATWEST tank and curing oven, EUPRIMERWEST curing oven, and EUTOPCOATWEST curing oven.

RTOEast is a new installation and the destruction efficiency ("DE") was tested in September 2021, demonstrating an average 97.1% DE.

Two current TOs control the emissions from EU-COLOR-ONE oven and EUREPROCESS oven respectively. The latest destruction efficiency performance test of the COLOR-ONE oven TO was in September 2018 and demonstrated a 99.6% DE. The latest destruction efficiency performance test of the REPROCESS oven TO was in September 2018 and demonstrated a 96.8% DE.

RTOWest will be tested during the winter of 2022 after representative vehicle production volumes are realized.

**FCA US, LLC Warren Truck Assembly Plant
Compliance Assurance Monitoring (CAM)/O&M Plan**

II. Monitoring Approach

	Concentrator Temperature	RTO/TO Temperature
A. Indicator	The concentrator desorption gas inlet temperature is measured with one thermocouple, which is used for compliance with the minimum temperature required by the permit. The temperatures are monitored continuously and recorded at equally spaced intervals at least once every 15 minutes.	For both the East and West RTOs, the RTO combustion temperature is measured with thermocouples, two per combustion chamber. The average of the thermocouple readings is used for compliance with the minimum temperature required by the permit. The temperatures are monitored continuously and recorded at equally spaced intervals at least once every 15 minutes.
B. Indicator Range	The concentrator desorption gas inlet temperature shall be at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 deg F of the most recent acceptable performance test, based on a three hour avg.	For RTOEast, the temperature shall be a minimum of 1500°F. For TO COLOR 1, the temperature shall be a minimum of 1291°F. For TO REPROCESS, the temperature shall be a minimum of 1291°F. For RTOWest, temperature shall be set at the manufacture's recommended temperature (a minimum of 1450°F) until an acceptable performance test has been performed.
C. Bypass System Detection	The ROP emission unit EU-UNIPRIME special condition VI.3 and the flexible group, FG-TOPCOAT, special condition no. VI.10 requires bypass monitoring, during production, for each bypass valve such that the valve or closure mechanism cannot be opened without creating an alarm condition for which a record shall be made. The PTI flexible groups, FGTOPCOATEAST special condition no. VI.12 and FGCONTROLS special condition VI.6 requires bypass monitoring, during production, for each bypass valve such that the valve or closure mechanism cannot be opened without creating an alarm condition for which a record shall be made.	

**FCA US, LLC Warren Truck Assembly Plant
Compliance Assurance Monitoring (CAM)/O&M Plan**

III. Performance Criteria

	Concentrator Temperature	RTO/TO Temperature
A. Data Representativeness	There is one thermocouple located in each concentrator	All of the RTOs and TOs have multiple chambers/towers that are designed to accommodate the air flows from the multiple sources. There is a thermocouple located in each combustion chamber.
B. Verification of Operation Status	Testing of newly installed equipment will be conducted when full production commences.	Testing of the existing TO's is performed at a five-year frequency, or as noted in the permit. Testing of newly installed equipment will be conducted when full production commences.
C. QA/QC Practices and Criteria	Validation of thermocouple accuracy or recalibration of each thermocouple a minimum will occur once every 12 months. The thermocouple may be replaced in lieu of validation.	Validate the accuracy of, or recalibrate, the thermocouples in the oxidizers a minimum of once every 12 months. In lieu of validation or recalibration, new, calibrated thermocouples can be installed.
D. Monitoring Frequency	Continuous, and recorded at equally spaced intervals at least once every 15 minutes.	Continuous, and recorded at equally spaced intervals at least once every 15 minutes.
E. Data Collection Procedures and Averaging Period; and excursion determination	<p>FCA collects the temperature records on its Factory Information System ("FIS") from the average of the multiple thermocouples (as applicable).</p> <p>Further, the FIS system calculates three-hour averages of the combustion temperatures, and is available for reference, including when the data point falls below the minimum required temperature, per FGCONTROLS, SC III.1.</p> <p>Excursions are defined as the following:</p> <ol style="list-style-type: none"> a. A temperature excursion is defined as a confirmed three-hour period during which the average fails to meet the specified temperature requirements of FGCONTROLS, SC. III.1 b. A monitoring excursion is defined as a failure to properly monitor as required per FGCONTROLS, SC. VI.1 and VI.2 (i.e., bypass and temperature recordings). c. A monitoring excursion is defined as a failure to properly implement and/or maintain requirements in FGCONTROLS SC VI.11. 	

FCA US, LLC Warren Truck Assembly Plant Compliance Assurance Monitoring (CAM)/O&M Plan

IV. Justification

A. Rational for Selection of Performance Indicators

The average RTO combustion chamber temperature was selected because it is indicative of the VOC destruction occurring within an RTO (&TOs) and is a widely accepted method of monitoring. If the chamber temperature decreases significantly, then complete combustion may not occur, reducing the destruction efficiency. Therefore, the requirement to monitor temperature and maintain appropriate records is a justification for assuring VOC destruction efficiency. If the inlet desorption temperature decreases significantly, then proper VOC removal cannot take place, reducing removal efficiency. Therefore, the requirement to monitor temperature and maintain appropriate records is a justification for assuring VOC removal efficiency. Temperature monitoring is specifically identified in the monitoring/recordkeeping requirements under the current ROP flexible group FG-TOPCOAT-SC VI.1.

B. Rational for Selection of Indicator Ranges

The selected indicator for the two RTOs (RTOEast and RTOWest) is the minimum average combustion chamber temperature recommended by the manufacturer, (until compliance testing is performed) which are required to meet 95% destruction efficiency. The selected indicator for the TOs is the minimum average combustion chamber temperature that meets 95% destruction efficiency. The selected indicator of the concentrator is the desorption gas inlet temperature, and maintain the minimum average temperature within 15 degrees of that from the most recent acceptable performance test.

C. Performance Test

The latest destruction efficiency performance test of the COLOR-ONE Thermal Oxidizer was in September 2018 and demonstrated a 99.6% DE. The latest destruction efficiency performance test of the REPROCESS Thermal Oxidizer was in September 2018 and demonstrated a 96.8% DE. These tests demonstrated compliance with the permit required minimum of 95% DE.

The West Paint Shop is all new equipment and the destruction efficiency of the controls will be tested during winter 2022 after we reach vehicle representative production volumes. The new East Paint Shop RTO was tested in September 2021, demonstrating an average 97.1% DE.



RENEWABLE OPERATING PERMIT APPLICATION

AI-001: ADDITIONAL INFORMATION

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SRN: B2757

Section Number (if applicable):

1. Additional Information ID
AI- WTAP-Compliance Plan and SOC-1

Additional Information

2. Is This Information Confidential?

 Yes No

FCA US LLC, Warren Truck Assembly Plant ("WTAP") was issued a Violation Notice ("VN") by the AQD dated November 1, 2021, alleging noncompliance with PTI 13-19B, Special Condition IV.1 of EUPRIMERWEST, regarding the ducting of EUPRIMERWEST ambient flash-off zones' emissions to the concentrator and regenerative thermal oxidizer ("RTO") control. A response to the VN was submitted on November 22, 2021, in which the planned corrective actions and schedule were communicated. The corrective action plan includes the installation of ducting and equipment, which will be connected to the existing RTO upstream of the concentrator. The project will require electrical work, new controllers and associated equipment. The current ducting from the EUPRIMERWEST ambient flash zones will be disconnected from the existing exhaust stack and connected to the new ducting. Following installation, the ducting will direct the primer ambient flash VOC emissions to the concentrator and then to the RTO.

FCA has begun the engineering and procurement of critical long lead equipment necessary to operate the system. It is anticipated that the installation will be complete by the end of February 2022. The AQD will be regularly appraised as to the status of the project.



RENEWABLE OPERATING PERMIT APPLICATION

AI-001: ADDITIONAL INFORMATION

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SRN: B2757	Section Number (if applicable):
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1. Additional Information ID
AI- WTAP-Compliance Plan and SOC-2

Additional Information

2. Is This Information Confidential? Yes No

During recent stack testing of WTAP's East RTO for purposes of establishing the unit's destruction efficiency, the testing team measured and determined the exhaust velocity, stack diameter and volumetric flow rate. During this exercise, the velocity was determined to be consistent with anticipated flows, however the diameter was measured at approximately 70 inches, which is greater than the permit condition of 60 inches. While the larger diameter results in greater dispersion, the permit needs to be updated to reflect the larger diameter.

FCA will develop and submit a PTI modification application to amend PTI 13-19B and the East RTO stack diameter. The application will include the data and information required to support the proposed changes. FCA anticipates submitting the PTI modification application May 2022.



RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

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SRN: B2757

Section Number (if applicable):

1. Additional Information ID
AI-MAP

Additional Information

2. Is This Information Confidential?

Yes No

Attached is the Malfunction Abatement Plan for the WTAP facility.

FCA US LLC
Warren Truck Assembly Plant

Permit No.: PTI 13-19B

2022

Malfunction Abatement Plan

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 Purpose and Use	1
2.0 Applicability and Control Device List	1
3.0 Preventive Maintenance Program	3
3.1 Preventive Maintenance Activities	3
3.2 Preventive Maintenance Responsible Personnel	3
4.0 Operating Parameters and Malfunction Detection	6
5.0 Malfunction Operating Scenarios	7

1.0 Purpose and Use

This Malfunction Abatement Plan was developed in accordance with Permit to Install #13-19B for the regenerative thermal oxidizers, thermal oxidizers, concentrators, water wash systems and dry particulate control devices used to control emissions from the spray booths, flash areas, curing ovens and sanding/repair areas at FCA's Warren Truck Assembly Plant (WTAP). The purpose of the malfunction and abatement plan is to prevent, detect and correct malfunctions or equipment failures that may result in volatile organic compound (VOC) or particulate matter (PM) emissions exceeding any applicable emission limitation.

This plan includes a description of the following elements, consistent with the requirements established in state regulations (Michigan Air Pollution Control Rules, R336.1911) for malfunction abatement plans:

- The preventive maintenance program for the pollution control equipment;
- The operating variables that are monitored to detect a malfunction; and
- A description of corrective maintenance procedures and/or operational changes to be made in the event of a malfunction.

2.0 Applicability and Control Device List

This plan applies to the regenerative thermal oxidizers (RTOs), thermal oxidizers (TOs), concentrators, water wash system, and dry particulate filter systems at WTAP. The sources and applicable Air Pollution Control Equipment are defined in Table 1 and Table 2 for the West Paint Shop and East Paint Shop, respectively.

Table 1
West Paint Shop List of Sources and Air Pollution Control Equipment

Emission Unit	Applicable Air Pollutant Control Equipment
Electrocoat Tank and Oven	RTO
Primer Prep & heavy repair Booths	Dry Filters
Primer Spray booth	Dry Filters, Water Wash System, Concentrator and RTO
Primer Oven	Dry Filters and RTO
Topcoat Booth	Dry Filters, Water Wash System, Concentrator and RTO

Emission Unit	Applicable Air Pollutant Control Equipment
Topcoat Oven	Dry Filters and RTO
Topcoat Observation Zone	Dry Filters
Purge clean	Concentrator and RTO
Spot Repair Booth	Dry Filters
Spot Prime Booth	Dry Filters

**Table 2
East Paint Shop List of Sources and Air Pollution Control Equipment**

Emission Unit	Applicable Air Pollutant Control Equipment
Electrocoat Tank and Oven	RTO
Powder Anti-chip application	Dry Filters
Purge clean	Concentrator and RTO
Spot Repair	Dry Filters
Final Repair	Dry Filters
Topcoat Color 1 booth	Water wash system, Concentrator and RTO
Topcoat Oven	Thermal Oxidizer
Spot Repair Booth	Dry Filters
Reprocess booth	Water wash system
Reprocess oven	Thermal Oxidizer
Spot Prime Booth	Dry Filters

3.0 Preventive Maintenance Program

This section describes the procedures for maintaining the regenerative thermal oxidizers and thermal oxidizers, concentrators, dry filter system and auxiliary equipment: the frequency of inspection, the activities undertaken, and the personnel responsible for overseeing inspection, maintenance and repair of this equipment.

3.1 Preventive Maintenance Activities

The preventive maintenance activities for the regenerative thermal oxidizer were originally established using the manufacturer’s recommended general and preventive maintenance procedures, and have since been refined based on operational and maintenance experience with the regenerative thermal oxidizer as well as sound engineering practice in accordance with industry standards. The maintenance and inspection activities records are maintained electronically in the plant’s Total Maintenance System (TMS). Table 3 summarizes the preventive maintenance activities and associated frequencies.

A list of replacement parts for the regenerative thermal oxidizer and thermal oxidizer that are inventoried, used and periodically re-stocked is provided in Table 4. WTAP maintains an inventory of dry filters used in the particulate matter control systems in the facility.

3.2 Preventive Maintenance Responsible Personnel

The following personnel share responsibility for ensuring that the inspection and maintenance activities for the regenerative thermal oxidizer, thermal oxidizer, and filter systems are completed:

- Paint Shop Maintenance Manager
- Maintenance Area Manager
- Facility Engineers
- Millwrights, Pipefitters and Electricians

Table 3
Summary of Preventive Maintenance Activities

Frequency	Preventive Maintenance Activity
Regenerative Thermal Oxidizer & Concentrators	
Weekly	<ul style="list-style-type: none">● Abatement fan temperature and vibration check● Exhaust fans variable-frequency drive (VFDs) inspection

Frequency	Preventive Maintenance Activity
Monthly	<ul style="list-style-type: none"> • Inspect burner concentrator heater • Inspect valve proving device • Combustion air filter cleaning and replacement • Flushing fan drive inspection • RTO burner inspection • Damper flange bearing inspection
Every 2 Months	<ul style="list-style-type: none"> • Fan shaft inspection
Semi-Annually	<ul style="list-style-type: none"> • Inspect fan vibration switch • Fan shaft coupling inspection • Hydraulic power unit air breather replacement • Hydraulic power unit oil inspection
Annually	<ul style="list-style-type: none"> • Differential pressure switch replacement • Replace valve motor actuator • Replace gas motor regulator • Replace pilot solenoid valve • Replace Hi-Lo limit assembly • Recalibration and/or replacement of each thermocouple • Replace butterfly valve • Blocking valve replacement • Perform an inspection of the valve seals condition and verify valve timing/synchronization (min every 18 months) • Lubricate fan bearing • Inspect fan bearing RTD • Replace grease cartridge • Concentrator gearbox oil lubrication • Flushing fan belt replacement • Pressure transmitter service • Hydraulic power unit reservoir inspection
Every Two Years	<ul style="list-style-type: none"> • Replace concentrator drive belt
Every Four Years	<ul style="list-style-type: none"> • Replace damper proximity switch • Damper gland packing replacement
Every Five Years	<ul style="list-style-type: none"> • Flushing fan bushing replacement

Frequency	Preventive Maintenance Activity
As Needed	<ul style="list-style-type: none"> • Replace burner transformer • Replace fan motor • Replace concentrator drive and motor • Replace damper actuator • Replace limit switch • Can damper seal replacement • Burner air pressure switch replacement • Hydraulic power unit heater replacement • Hydraulic power unit level switch replacement • Engaging tower degrade mode (test) • Damper hydraulic flow control replacement
Dry Particulate Filters	
Weekly	<ul style="list-style-type: none"> • Inspection of Dry Particulate Filters (replaced as necessary)
Water Wash Systems	
Weekly	<ul style="list-style-type: none"> • Inspection of Water Wash System
Annually	<ul style="list-style-type: none"> • Water Wash Replacement

**Table 4
Major RTO/TO Replacement Parts**

Pressure Transmitter
Fan Bearing Temperature Thermocouples
Flushing Fan belts
Ignitors
Gaskets
Flushing Fan Motor
Thermocouples

**Table 5
Major Concentrator Replacement Parts**

Pressure gauges
Limit Switch
Rotation Drive Motor
Rotor Seals
Thermocouples
Drive Belt
Pulsation Damper

4.0 Operating Parameters and Malfunction Detection

Dry Filters, Regenerative Thermal Oxidizer /TO, Concentrator Performance Monitoring and Malfunction Detection

RTOs, Concentrators, and Thermal Oxidizers are pollution control devices used for E-Coat Tank and Ovens and Spray booths and their Ovens, and normal operating conditions are defined in terms of the following parameters:

- The operating temperature is established during recent regulatory testing for Destruction Efficiency (DE). The east paint shop RTO combustion temperature operates at 1500 F. Currently, since WTAP has not yet conducted a DE test on the new west shop RTO, manufacturer's recommended operating combustion temp of 1450 F is utilized. Thermal Oxidizers operate at 1291 F. Concentrators in both the East and West paint shops have not yet conducted a capture efficiency test and therefore, operate at manufacturer's recommended operating temperature of 370 F.
- The oxidizers' and concentrators' operating temperature is electronically recorded at least every 15mins in WTAP FIS.
- No by-pass valve or stack dampers are open to the atmosphere during production. The open/closed status of the bypass valve is recorded in the FIS.
- In the event WTAP FIS data logger goes offline, the operator manually records the data every 15 minutes as a backup record.
- If the RTO/TO/concentrator operating temperature drops below the set point, the conveyor system leading into the paint spray booths or Ecoat system are interlocked (i.e., stopped) thus preventing vehicles from being introduced into the emission source.
- If the interlock is engaged due to temperature drops, the Spray booths, Ovens and Ecoat system are stripped of vehicles that were already in the system prior to the incident.
- The Dry Filter system is inspected on a weekly basis by an outside contracted company and the system components/filters are replaced by the contracted company as required.

5.0 Malfunction Operating Scenarios

Permit conditions require the RTOs, concentrators and TOs be operated at certain temperatures during production hours. A reportable malfunction occurs when the RTO/TO/concentrator malfunction results in excess emissions, as defined in the permit and Michigan Air Pollution Control rules.

In the event the RTO/TO operating temperature or the concentrator desorb inlet temperature fall below the set point during production or just prior to production startup, the production stop interlock is activated in the various entrance stage of the processes as listed below:

- Prior to tack off zone for all Spray booths and Ovens
- Phosphate Pre-cleaning stage for the Ecoat system and Oven

Vehicles stranded within the process prior to the incident are stripped out and production does not resume until the RTO/TO/concentrator operating temperature is back to the appropriate set point.

The Paint Maintenance manager, through each shift's Paint Maintenance Supervisor, is responsible for maintaining the RTO/TO/concentrator in accordance with all Federal and Michigan State rules and permit conditions.

It is the responsibility of the Paint Maintenance Manager and Paint Maintenance Supervisors to notify the EH&S Environmental Specialist if the RTO/TO/concentrator drops below normal operating temperature or if the interlock is engaged. During any incident of control equipment malfunction, the Paint Maintenance Manager, Paint Maintenance Supervisors and EHS staff will coordinate efforts to minimize emissions.

Any misplacement of, or problems with, the particulate matter dry filter systems will be identified by the third party during their weekly inspections and be expeditiously reported to the area supervisor.

EHS staff is responsible for evaluating emissions during a malfunction to determine if emissions were in excess of any permit limit.

The Environmental Specialist will notify the Michigan Department of Environment, Great Lakes and Energy, Air Quality Division of a reportable malfunction of an RTO/TO/concentrator, as required pursuant to Michigan Rule R336.1912 and PTI #13-19B.



RENEWABLE OPERATING PERMIT APPLICATION

AI-001: ADDITIONAL INFORMATION

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SRN: B2757

Section Number (if applicable):

1. Additional Information ID
AI-WPP

Additional Information

2. Is This Information Confidential?

Yes No

Attached is the Auto MACT Work Practice Plan for the WTAP facility.

Warren Truck Assembly Plant Auto MACT Work Plan

Steps For Minimizing Hazardous Air Pollutants (HAPs) Emissions from Storage, Mixing and Conveying of Cleaners and Coatings:



Operational Controls



- I. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
- II. The risk of spills of organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be minimized.
- III. Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.
- IV. Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
- V. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.

Benefits of Improved Performance:

Reduce waste generation and air pollution

Warren Truck Assembly Plant Auto MACT Work Plan

Steps For Minimizing HAP Emissions from Cleaning and Purging Operations, WTAP will use the following techniques:



Operational Controls



- I. Vehicle Body Wipe Operations – Using Pre-Moistened Solvent Wipes.
- II. Purging of Coating Lines – Review of the Purge Recovery Records Monthly.
- III. Flushing of Coating Systems – Keeping all solvent tanks closed when not in use.
- IV. Cleaning of Spray Booth Grates – Rinsing grates with high-pressure water offline.
- V. Cleaning of Spray Booth Walls – Using Spray-On Masking for Booth Walls
- VI. Cleaning of Spray Booth Equipment – Using covers on equipment (disposable or reusable). Using parts cleaners for the off-line submersion cleaning.
- VII. Cleaning of External Spray Booth Areas – Using manual and/or mechanical scrubbers, rags or wipes instead of spray cleaning.
- VIII. Other Related Housekeeping Measures – Storing new and used solvents in closed containers.

Benefits of Improved Performance:

Reduce waste generation and air pollution



RENEWABLE OPERATING PERMIT APPLICATION

AI-001: ADDITIONAL INFORMATION

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SRN: B2757

Section Number (if applicable):

1. Additional Information ID

AI-PTE

Additional Information

2. Is This Information Confidential?

Yes No

WTAP is considered a major source of criteria and hazardous air pollutants based upon actual emissions. Therefore, the PTE of the facility does not impact its applicability under Title V.

The PTE for criteria pollutants for WTAP is based upon the limit within PTI 13-19B as follows:

NOx: 150.65 TPY
 CO: 161.7 TPY
 PM: 29.96 TPY
 PM10: 20.55 TPY
 PM2.5: 18.05 TPY
 VOC: 728.45 TPY



RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

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SRN: B2757

Section Number (if applicable):

1. Additional Information ID
AI-PTI 13-19B

Additional Information

2. Is This Information Confidential?

Yes No

Copy of PTI 13-19B

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

June 23, 2021

PERMIT TO INSTALL
13-19B

ISSUED TO
FCA US LLC

LOCATED AT
21500 MOUND ROAD
WARREN, MICHIGAN 48091

IN THE COUNTY OF
MACOMB

STATE REGISTRATION NUMBER
B2767

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: April 22, 2021	
DATE PERMIT TO INSTALL APPROVED: June 23, 2021	SIGNATURE: 
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS	3
POLLUTANT / MEASUREMENT ABBREVIATIONS.....	4
GENERAL CONDITIONS	5
EMISSION UNIT SPECIAL CONDITIONS.....	7
EMISSION UNIT SUMMARY TABLE	7
EUPRETREATWEST.....	12
EUECOATWEST	14
EUPRIMERWEST.....	17
EUTOPCOATWEST	22
EUPURGECLEANWEST	27
EUBODYWIPEWEST	30
EUSPOTREPAIRWEST.....	32
EUECOATEAST	35
EUPWDRPRMEAST	39
EUPURGECLEANEAST	42
EUSPOTREPAIREAST.....	45
EUSEALERS	48
EUFINALREPAIR.....	51
EUFLUIDFILL	54
EUTRIMBOILER	56
FLEXIBLE GROUP SPECIAL CONDITIONS.....	58
FLEXIBLE GROUP SUMMARY TABLE	58
FGTOPCOATEAST	61
FGCONTROLS	72
FGSPOTPRIMEWEST.....	75
FGRTOWEST	78
FGRTOEAST	81
FGBOILERS	84
FGAUTOMACT.....	86
FGBOILERMACTHWG	90
FGNGWEST	97
FGNEWNGEAST.....	100
FGTANKS.....	102

FG-OLDMACT	104
FGNGEMENG	106
FGPSWEST/NEWEAST	111
FGFACILITY CONDITIONS.....	113
APPENDIX 7.	116
Appendix 7. Emission Calculations	116

COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

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

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO _{2e}	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install 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 this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit 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 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. 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 Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

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
EUPRETREATWEST	A series of dip tanks and rinses for the surface treatment of automobiles.	TBD	FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST
EUECOATWEST	An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a primer prep booth (light sanding) for repairs of surface blemishes. Emissions from the E-coat tanks are directed to the curing oven and then to the new west RTO for control.	TBD	FGCONTROLS, FGAUTOMACT, FGRTOWEST, FGNGWEST, FGPSWEST/NEWEAST
EUPRIMERWEST	A prep tunnel, two (2) automatic primer booths, one for solvent borne main primer and one for solvent borne tintone coloring primer, a primer observation zone, an ambient flash-off area, a natural gas-fired primer curing oven, and a cooling tunnel, followed by two booths (color prep booth and heavy reprocess sand) for repair of surface blemishes.	TBD	FGCONTROLS, FGAUTOMACT, FGRTOWEST, FGNGWEST, FGPSWEST/NEWEAST
EUTOPCOATWEST	An automatic topcoat spray application process consisting of a water borne basecoat coating booth, a basecoat observation zone, a basecoat ambient flash-off area, a basecoat heated flash-off area, a solvent borne clearcoat coating booth, a clearcoat observation zone, a clearcoat ambient flash-off area, and a natural gas-fired curing oven. Approximately 85% of the air from the spray zones is recirculated back into the process and 15% is exhausted to the concentrator and RTO.	TBD	FGCONTROLS, FGAUTOMACT, FGRTOWEST, FGNGWEST, FGPSWEST/NEWEAST
EUPURGE CLEANWEST	Various cleaning solvents and purge solvents used in the west paint shop. VOC emissions from the solvent-based purge materials used within EUPRIMERWEST and the clearcoat booth portion of EUTOPCOATWEST are controlled by the west concentrator and west RTO except when collected in the purge collection system.	TBD	FGCONTROLS, FGAUTOMACT, FGRTOWEST, FGPSWEST/NEWEAST
EUBODYWIPEWEST	Body wipes used throughout the west paint shop.	TBD	FGAUTOMACT, FGPSWEST/NEWEAST

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUSPOTREPAIRWEST	Rapid reprocess repair booth after the west paint shop topcoat process.	TBD	FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST
EUECOATEAST	Formerly EU-UNIPRIME. An electro-deposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, and a cooling tunnel. The curing oven is currently controlled by an existing RTO, which will be replaced by the new east RTO, which will control both the tank and curing oven portions of EUECOATEAST.	7/31/1984, Date of PTI	FGCONTROLS, FGAUTOMACT, FGRTOEAST, FGNEWNGEAST, FGPSWEST/NEWEAST
EUPWDRPRMEAST	A powder anti-chip coating application process in the east paint shop which is electrostatically applied. The spray booth also includes the application of a colored powder basecoat for tutone applications. The powder spray application is controlled by a particulate filtration system which is vented inside the plant.	01/01/1996, Date of PTI	FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST
EUPURGECELEANEAST	Formerly EU-SOLVENT-WIPE. Emissions from purge solvent, solvent wipes, and body wipe cleaners throughout the body shop, east paint shop, and final assembly portion of the plant. After installation of the east concentrator and east RTO, VOC emissions from the solvent-based purge materials used within the basecoat and clearcoat booths are controlled except when collected in the purge collection system.	7/31/1984 / Date of PTI	FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST
EUSPOTREPAIREAST	Spot repair process in the east paint shop, prior to the topcoat application.	TBD	FGAUTOMACT, FGCONTROLS, FGPSWEST/NEWEAST
EUSEALERS	Formerly EU-SEALERS&ADHESIVES. Various manual and robotic sealer and adhesive application stations/booths. Sealers and adhesives are applied at various decks in both west and east paint shops (some of which are cured in the sealer oven), the body shop, and the final assembly areas of the facility.	7/31/1984, Date of PTI	FGAUTOMACT, FGPSWEST/NEWEAST
EUFINALREPAIR	Formerly EU-FINAL-REPAIR: Final repair operations including a coating area. Prep booths or sanding booths are equipped with side-draft dry filter particulate control systems. Spray booths are equipped with downdraft dry filter particulate control system.	7/22/1996, Date of PTI	FGCONTROLS, FGPSWEST/NEWEAST, FGAUTOMACT
EUFLUIDFILL	Formerly EU-FLUID-FILL: Each vehicle will be filled with various fluids such as gasoline, antifreeze, transmission fluid, power steering fluid, and windshield washer fluid.	7/31/1984, Date of PTI	FGPSWEST/NEWEAST

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-COLOR-ONE	Color1 line (one of two identical topcoat lines) consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Downdraft Water Wash System for particulate control on the spray booths and Thermal Oxidizer for VOC control on the bake oven. After installation of the control equipment, the spray booth portions will be controlled by the east concentrator and east RTO.	07/31/1984, Date of PTI	FGAUTOMACT, FGTOPCOATEAST, FGCONTROLS, FGRTOEAST, FGNEWNGEAST, FGPSWEST/NEWEAST
EU-COLOR-TWO	Color2 line (one of two identical topcoat lines) consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Downdraft Water Wash System for particulate control on the spray booths and Thermal Oxidizer for VOC control of the bake oven.	07/31/1984	FGAUTOMACT, FGTOPCOATEAST
EU-REPROCESS (High-bake)	Reprocess is high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. Water Wash System for particulate control on the spray booths and Thermal Oxidizer for VOC control of the bake oven.	07/31/1984	FGAUTOMACT, FGCONTROLS, FGTOPCOATEAST
EU-BOILER3	152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.	07/11/1998	FG-BOILERS, FG-BOILER-MACT5D
EU-BOILER4	106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98) natural gas only boiler equipped with low NOx burners.	07/11/1998	FG-BOILERS, FG-BOILER-MACT5D
EU-BOILER5	152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.	09/01/1996	FG-BOILERS, FG-BOILER-MACT5D
EU-BOILER6	192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84) natural gas only boiler equipped with oxygen trim system but not low NOx burners.	10/29/1984	FG-BOILERS, FG-BOILER-MACT5D
EU-TRIMBOILER	A 37 million BTU heat input per hour (Cleaver Brooks) natural gas only boiler, equipped with low NOx burners.	TBD	FGBOILERMACTHWG, FGPSWEST/NEWEAST
EUHWG1	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG2	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG3	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUHWG4	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG5	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG6	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG7	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUHWG8	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUDSBCHWG	Hot water generator with a maximum heat input rating of 4 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUDSSBHWG	Hot water generator with a maximum heat input rating of 4 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EUDSCCHWG	Hot water generator with a maximum heat input rating of 4 MMBtu/hr. This unit is equipped with a low NOx burner.	TBD	FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST
EU-UNLEADEDGAS1	TK1 25,000-gallon gasoline storage tank – above-ground storage tank with spill containment.	03/19/2013	FGTANKS
EUMETANK	8,000-gallon bulk storage tank for the storage of windshield washer fluid.	01/01/2014	FGTANKS
EUNEWNGASSEMBLY	Natural gas-fired air supply housing and space heating (51.0 MMBtu/hr capacity) in the assembly portion of the facility added as part of the west paint shop project.	TBD	FGNGWEST, FGCONTROLS, FGPSWEST/NEWEAST
EUNEWNGPSEAST	Natural gas-fired air supply housing (8.3 MMBtu/hr capacity) installed in the east paint shop as part of the west paint shop project.	TBD	FGNEWNGEAST, FGCONTROLS, FGPSWEST/NEWEAST
EUDIESELTANK1	8,000-gallon storage tank for the storage of diesel fuel.	01/01/2014	FGTANKS
EUANTIFREEZETANK	10,000-gallon storage tank for the storage of antifreeze.	01/01/2014	FGTANKS
EUBRAKEFLUIDTANK	8,000-gallon storage tank for the storage of brake fluid.	01/01/2014	FGTANKS
EUAUTOTRANS	8,000-gallon storage tank for the storage of automatic transmission fluid.	01/01/2014	FGTANKS
EUDIESELEXTANK	5,000-gallon storage tank for the storage of diesel exhaust fluid.	01/01/2014	FGTANKS
EUGASTANK2	1,000-gallon storage tank for the storage of gasoline.	01/01/2014	FGTANKS
EUDIESELTANK2	1,000-gallon storage tank for the storage of diesel fuel.	01/01/2014	FGTANKS

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUPURSOLVTANK	8,000-gallon storage tank for the storage of purge solvent.	01/01/2014	FGTANKS
EUDIESELTANK3	1,000-gallon storage tank for the storage of diesel fuel.	01/01/2014	FGTANKS
EUNGEMENG1	An 850-HP natural gas-fired emergency engine.	TBD	FGNGEMENG, FGPSWEST/NEWEAST
EUSPOTPRIMEWEST1	A spot prime repair process in the west paint shop. This process is after the E-coat process and prior to primer application.	TBD	FGAUTOMACT, FGCONTROLS, FGSPOTPRIMEWEST, FGPSWEST/NEWEAST
EUSPOTPRIMEWEST2	A spot prime repair process in the west paint shop. This process is after primer application and prior to topcoat application.	TBD	FGAUTOMACT, FGCONTROLS, FGSPOTPRIMEWEST, FGPSWEST/NEWEAST

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EUPRETREATWEST EMISSION UNIT CONDITIONS
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DESCRIPTION

A series of dip tanks and rinses for the surface treatment of automobiles.

Flexible Group ID: FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. No materials in EUPRETREATWEST shall contain any VOCs or HAPs that are emitted from the process. **(R 336.1702, R 336.2908)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component as used in EUPRETREATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1702, R 336.2908)**
2. The permittee shall keep a record, acceptable to the AQD district supervisor, demonstrating that any VOC and/or HAP compounds contained in the EUPRETREATWEST materials will not be emitted at the representative operating conditions. **(R 336.1225, R 336.1702, R 336.2908)**

VII. REPORTING

NA

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. SVENTRYAIRSEAL	18	113	40 CFR 52.21(c) & (d)
2. SVSTAGE2B	26	113	40 CFR 52.21(c) & (d)
3. SVSTAGE5	30	75	40 CFR 52.21(c) & (d)
4. SVSTAGE9	20	113	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUECOATWEST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a primer prep booth (light sanding) for repairs of surface blemishes. Emissions from the E-coat tanks are directed to the curing oven and then to the new west RTO for control.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

The west RTO for VOC control from the tank and oven. Dry filters for particulate control from the prep booth.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	0.04 lb/GACS	Monthly Average	EUECOATWEST	SC VI.5	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
2. VOC	1.1 tpy	12-month rolling time period as determined at the end of each calendar month	EUECOATWEST	SC VI.5	R 336.1205, R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the electrodeposition tank and curing oven portions of EUECOATWEST unless the west RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the RTO combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.1910, R 336.2908)**
2. The permittee shall not operate the prep booth portion of EUECOATWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EUECOATWEST tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EUECOATWEST tank shall be verified by testing using federal Reference Test Method 24. **(R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the dip tank and oven portions of EUECOATWEST, by testing at owner's expense, in accordance with Department requirements and 40 CFR 51 Appendix M. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
3. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the destruction efficiency of the west RTO in EUECOATWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUECOATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

4. The permittee shall install, maintain, and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the west RTO in EU ECOATWEST to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**
5. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EU ECOATWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) The monthly usage rate of each material or coating (in gallons - with water).
 - b) For each coating or material:
 - i. The pounds of VOC per gallon as applied (with water).
 - ii. The solids volume fraction.
 - c) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - d) The calculated VOC emission rate in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)

2. The primer prep booth shall not be directly discharged to the ambient air at any time. **(R 336.1225, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EU ECOATWEST. **(40 CFR Part 63, Subparts A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EU ECOATWEST. **(40 CFR 60.390)**

Footnotes:

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

**EUPRIMERWEST
EMISSION UNIT CONDITIONS**

DESCRIPTION

A prep tunnel, two (2) automatic primer booths, one for solvent borne main primer and one for solvent borne tutone coloring primer, a primer observation zone, an ambient flash-off area, a natural gas-fired primer curing oven, and a cooling tunnel, followed by two booths (color prep booth and heavy reprocess sand) for repair of surface blemishes.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the prep booth and reprocess heavy sand booth where the air is recirculated and not exhausted into the ambient air. Coating booth overspray is controlled by a waterwash particulate control system. A portion of the primer coating booth exhaust will be filtered and recirculated to the booth air make-up system. The primer coating booth and flash-off area emissions are exhausted through a bank of particulate filters prior to venting to the west concentrator and the west RTO. Oven emissions are exhausted through a bank of filters and then to the west RTO. Emissions from the observation zone are controlled by a particulate control system and exhausted to the ambient air.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	2.92 lb/GACS	Calendar Day Averaging	EUPRIMERWEST	SC VI.6	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
2. VOC	21.4 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRIMERWEST	SC VI.6	R 336.1205, R 336.1702, R 336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUPRIMERWEST (observation zone)	SC V.5	R336.1331
4. PM10	0.143 pph	Hourly	EUPRIMERWEST (observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
5. PM2.5	0.143 pph	Hourly	EUPRIMERWEST (observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, or curing oven portions of EUPRIMERWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature established during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.2908)**
2. The permittee shall not operate the primer spray booth, flash-off area, and observation zone portions of EUPRIMERWEST unless the waterwash systems are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the spray booth, flash-off area, and curing oven portions of EUPRIMERWEST unless the pre-concentrator/oxidizer particulate control systems are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the primer prep booth, and heavy sand booth portions of EUPRIMERWEST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash and dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUPRIMERWEST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EUPRIMERWEST, by testing at owner's expense, in accordance with Department requirements, 40 CFR 51 Appendix M, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
3. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the concentrator and destruction efficiency of the RTO in EUPRIMERWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete

test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

4. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the overall transfer efficiency of EUPRIMERWEST, by testing at owner's expense, in accordance with Department requirements and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
5. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from the observation zone portion of EUPRIMERWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUPRIMERWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

4. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the Air Quality Division. All temperature data shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R336.1910, 40 CFR 52.21, 40 CFR 60.390, 40 CFR 64.6(c)(1)(i & ii))**
5. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the west concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPRIMERWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(R 336.1702(a), R 336.1910, R 336.2908)**
6. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUPRIMERWEST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) The daily and monthly number of jobs produced.
 - b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c) The monthly usage rate of each material (in gallons – with water).
 - d) For each coating material:
 - i. The calculated monthly analytical VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation VOC content in pounds of VOC per gallon as applied.
 - iii. The calculated monthly formulation volume solids content as applied.
 - e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
 - f) The total gallons of solids deposited on a daily basis.
 - g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**

VII. REPORTING

NA

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. SVPRMOBSWEST	44	113	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBTHCONCWEST	68	113	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)

4. The exhaust gases from the prep booth and the reprocess heavy sand booth portions of EUPRIMERWEST shall not be directly discharged to the ambient air at any time. **(R 336.1225, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUPRIMERWEST. **(40 CFR Part 63, Subpart A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUPRIMERWEST. **(40 CFR 60.390)**

Footnotes:

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

EUTOPCOATWEST EMISSION UNIT CONDITIONS

DESCRIPTION

An automatic topcoat spray application process consisting of a water borne basecoat coating booth, a basecoat observation zone, a basecoat ambient flash-off area, a basecoat heated flash-off area, a solvent borne clearcoat coating booth, a clearcoat observation zone, a clearcoat ambient flash-off area, and a natural gas-fired curing oven. Approximately 85% of the air from the spray zones is recirculated back into the process and 15% is exhausted to the concentrator.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Booth overspray will be controlled by a waterwash particulate control system. A portion of the basecoat and clearcoat exhaust will be filtered and recirculated to the booth air make up system. The coating booth and flash-off area emissions are exhausted through a bank of particulate filters prior to venting to the west concentrator and the west RTO. Oven emissions are exhausted through a bank of particulate filters and then to the RTO. Solvent-based robots (clearcoat) will capture and recover coatings and cleaning solvents in a purge collection system. Emissions from the observation zones are controlled by a particulate control system and exhausted to atmosphere.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	3.53 lb/GACS	Calendar Day Averaging	EUTOPCOATWEST	SC VI.6	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
2. VOC	75.3 tpy	12-month rolling time period as determined at the end of each calendar month	EUTOPCOATWEST	SC VI.6	R 336.1205, R 336.1702(a), R 336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUTOPCOATWEST (base coat observation zone)	SC V.5	R 336.1331
4. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUTOPCOATWEST (clear coat observation zone)	SC V.5	R 336.1331
5. PM10	0.103 pph	Hourly	EUTOPCOATWEST (base coat observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
6. PM10	0.153 pph	Hourly	EUTOPCOATWEST (clear coat observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
7. PM2.5	0.103 pph	Hourly	EUTOPCOATWEST (base coat observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
8. PM2.5	0.153 pph	Hourly	EUTOPCOATWEST (clear coat observation zone)	SC V.5	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, or curing oven portions of EUTOPCOATWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature established during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.2908)**
2. The permittee shall not operate the spray booth, flash-off area, and observation zone portions of EUTOPCOATWEST unless the water wash system is installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the spray booth, flash-off areas, observation zone, and curing oven portions of EUTOPCOATWEST unless the particulate control systems prior to the west concentrator and west RTO are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash and dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUTOPCOATWEST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EUTOPCOATWEST, by testing at owner's expense, in accordance with Department requirements, 40 CFR 51 Appendix M, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

3. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the concentrator and destruction efficiency of the RTO in EUTOPCOATWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
4. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the overall transfer efficiency VOC loading of EUTOPCOATWEST, by testing at owner's expense, in accordance with Department requirements and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
5. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from the observation zones, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUTOPCOATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the Air Quality Division. All temperature data shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 60.390)**
5. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the west concentrator desorption gas inlet temperature on a continuous basis, during operation of EUTOPCOATWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(R 336.1702(a), R 336.1910, R 336.2908)**
6. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUTOPCOATWEST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) The daily and monthly number of jobs produced.
 - b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c) The monthly usage rate of each material (in gallons – with water).
 - d) For each coating material:
 - i. The calculated monthly analytical VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation VOC content in pounds of VOC per gallon as applied.
 - iii. The calculated monthly formulation volume solids content as applied.
 - e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
 - f) The total gallons of solids deposited on a daily basis.
 - g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**

VII. REPORTING

NA

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. SVBCOBSWEST (BC Observation Zone)	36	113	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVCCOBSWEST (CC Observation Zone)	40	113	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVBTHCONCWEST	68	113	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUTOPCOATWEST. **(40 CFR Part 63, Subparts A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUTOPCOATWEST. **(40 CFR 60.390)**

Footnotes:

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

**EUPURGECLEANWEST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Various cleaning solvents and purge solvents used in the west paint shop. VOC emissions from the solvent-based purge materials used within EUPRIMERWEST and the clearcoat booth portion of EUTOPCOATWEST are controlled by the west concentrator and west RTO except when collected in the purge collection system.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Solvent-Based robots (EUPRIMERWEST and the clearcoat portion of EUTOPCOATWEST) will capture and recover coatings and cleaning solvents in a purge collection system. Water borne basecoat purge is not controlled. Primer and clearcoat purge solvents not captured in the collection system will be controlled by the west concentrator and west RTO.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	69.3 tpy	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANWEST	SC VI.5	R 336.1205, R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not process solvent borne purge materials in the coating booth portions of EUPRIMER and the clearcoat coating booth portions of EUTOPCOATWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.2908(3))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUPURGECLEANWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.2908)**
3. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**
4. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPURGECLEANWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. All records shall be kept on file and made available to the Department upon request. **(R 336.1702(a), R 336.1910, R 336.2908)**
5. The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUPURGECLEANWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) For each material used:
 - i. A description of the material, its purpose and its VOC content in pounds per gallon.
 - ii. The total amount of purge and clean-up solvent used.
 - iii. The amount used in the automatic zones of EUPRIMERWEST and EUTOPCOATWEST, both in gallons.
 - iv. The amount in gallons reclaimed, where applicable.
 - b) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month. In performing these calculations, the actual tested control efficiency over EUPRIMERWEST and EUTOPCOATWEST, shall be applied to the materials used in the controlled automatic zones.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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. SVBTHCONCWEST	68	113	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUBODYWIPEWEST
EMISSION UNIT CONDITIONS**

DESCRIPTION

Body wipes used throughout the west paint shop.

Flexible Group ID: FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	17.1 tpy	12-month rolling time period as determined at the end of each calendar month	EUBODYWIPEWEST	SC VI.3	R 336.1205, R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUBODYWIPEWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.2908)**

3. The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUBODYWIPEWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:
- a) For each material used:
 - i. A description of the material, its purpose, and its VOC content in pounds per gallon.
 - ii. The total amount of body wipe solvent used.
 - iii. The amount in gallons reclaimed, where applicable.
 - b) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUSPOTREPAIRWEST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Rapid reprocess repair booth after the west paint shop topcoat process.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls are exhausted to the atmosphere.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	4.8 lb/gal (minus water), as applied	Daily volume weighted average	EUSPOTREPAIRWEST	SC VI.4	R 336.1702(a), R336.2908
2. VOC	0.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUSPOTREPAIRWEST	SC VI.4	R 336.1702(a), R336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1331
4. PM10	0.026 pph	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1205(1)(a) & (b), 40 CFR 52.21 (c) & (d)
5. PM2.5	0.026 pph	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1205(1)(a) & (b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EUSPOTREPAIRWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative booth in EUSPOTREPAIRWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUSPOTREPAIRWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSPOTREPAIRWEST. The records shall be kept in a format acceptable to the AQD District Supervisor, and at a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) The VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.

- e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

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. SVRPDRPCS	56	75	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUSPOTREPAIRWEST. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

**EUECOATEAST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Formerly EU-UNIPRIME. An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, and a cooling tunnel. The curing oven is currently controlled by an existing RTO, which will be replaced by the new east RTO, which will control both the tank and curing oven portions of EUECOATEAST.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNEWNGEAST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

An existing RTO for VOC control from the curing oven. The east RTO will control VOC emissions from the tank and curing oven portions after installation.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	14.5 pph ^{β,C}	Hour	EUECOATEAST (dip tank)	SC V.1, SC VI.4	R 336.2902 (formerly, R 336.1220)
2. VOC	31.23 tpy ^C	12-month rolling time period	EUECOATEAST (dip tank)	SC V.1, SC VI.4	R 336.2902 (formerly, R 336.1220)
3. VOC	8.2 pph ^{β,C}	Hour	EUECOATEAST (oven)	SC V.1, SC VI.4	R 336.2902 (formerly, R 336.1220)
4. VOC	17.66 tpy ^C	12-month rolling time period	EUECOATEAST (oven)	SC V.1, SC VI.4	R 336.2902 (formerly, R 336.1220)
5. VOC	1.34 lb/GACS ^C	Monthly average	EUECOATEAST (dip tank and oven)	SC V.1, SC VI.4	40 CFR 60.392, Subpart MM
6. VOC	0.04 lb/GACS ^B	Monthly Average	EUECOATEAST (dip tank and oven)	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
7. VOC	2.01 tpy ^B	12-month rolling time period as determined at the end of each calendar month	EUECOATEAST (dip tank and oven)	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908

^βBased upon monthly values using methods acceptable to the AQD.

^BThis emission limit shall become applicable when the requirements in FGPSWEST/NEWEAST SC IX.2 are met.

^CThis emission limit is applicable until the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.6 and SC I.7 become applicable.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Until installation of the east RTO, the permittee shall not operate EU-ECOATEAST unless the associated existing RTO for the bake ovens is installed and operating properly. Proper operation of the RTO includes maintaining a minimum 3-hour average combustion chamber temperature at the average combustion chamber temperature during the most recent acceptable performance test that demonstrated the equivalent destruction efficiency and has been accepted by the AQD District Supervisor. **(R 336.1910)**
2. Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall not operate the electrodeposition tank and curing oven portions of EU-ECOATEAST unless the east RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.1910, R 336.2908)**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EU-ECOATEAST tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EU-ECOATEAST tank shall be verified by testing using federal Reference Test Method 24. **(R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days of beginning control of the tank and oven portions of EU-ECOATEAST and exhausting to the east RTO, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the dip tank and oven portions of EU-ECOATEAST, by testing at owner's expense, in accordance with Department requirements, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**
3. Within 365 days of beginning control of the tank and oven portions of EU-ECOATEAST and exhausting to the new RTO, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify destruction efficiency of the east RTO by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete

test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUECOATEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall install, maintain, and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the east RTO in EUECOATEAST to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**
4. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUECOATEAST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:
 - a) The monthly usage rate of each material or coating (in gallons - with water).
 - b) For each coating or material:
 - i. The pounds of VOC per gallon as applied (with water).
 - ii. The solids volume fraction.
 - c) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - d) The calculated VOC emission rate in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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. SVRTOEAST	60	114	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVSMB-B-05-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVSMB-B-05-02	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVSMB-B-13-01	NA	46	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVSMB-B-22-02	NA	46	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVSMB-C-02-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVSMB-C-08-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVSMB-C-08-02	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVSMB-C-08-03	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVSMB-C-09-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVSMB-C-10-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVSMB-C-10-02	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVSMB-C-10-03	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
14. SVSMB-C-11-01	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
15. SVSMB-C-11-02	NA	42	R 336.1225, 40 CFR 52.21(c) & (d)
16. SV-UNIPRIMERTO	NA	NA	R 336.1225, 40 CFR 52.21(c) & (d)
Stacks listed in SC VIII.2 through SC VIII.16 shall be replaced by SVRTOEAST after the requirements in FGPSWEST/NEWEAST SC IX.2 have been met.			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUECOATEAST. **(40 CFR Part 63, Subparts A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUECOATEAST. **(40 CFR 60.390)**

Footnotes:

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

**EUPWDRPRMEAST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

A powder anti-chip coating application process in the east paint shop which is electrostatically applied. The spray booth also includes the application of a colored powder basecoat for tutone applications. The powder spray application is controlled by a particulate filtration system which is vented inside the plant.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the powder application booth.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	0.05 lb/GACS	Calendar Day Averaging	EUPWDRPRMEAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
2. VOC	3.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUPWDRPRMEAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908

3. There shall be no visible emissions from the anti-chip curing oven stacks listed in SC VIII.1 and VIII.2 (R 336.1301, 40 CFR 52.21 (c) & (d))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUPWDRPRMEAST unless the dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3 and exhausting the particulate control system within the in-plant environment. (R 336.1224, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUPWDRPRMEAST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUPWDRPRMEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUPWDRPRMEAST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following (as applicable to powder coatings):
 - a) The daily and monthly number of jobs produced.
 - b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c) The monthly usage rate of each material (in gallons).
 - d) For each coating material:
 - i. The calculated monthly VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation volume solids content as applied.
 - e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
 - f) The total gallons of solids deposited on a daily basis.
 - g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**

VII. REPORTING

NA

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. SVDSANTIOVEN1	54	90	R 336.1225, 40 CFR 52.21 (c) & (d)
2. SVDSANTIOVEN2	54	90	R 336.1225, 40 CFR 52.21 (c) & (d)

3. There shall be no external exhaust from EUPWDRPRMEAST other than the anti-chip cure ovens listed in SC VIII.1 and VIII.2. **(R 336.1225, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUPWDRPRMEAST. **(40 CFR Part 63, Subpart A and Subpart IIII)**
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUPWDRPRMEAST. **(40 CFR 60.390)**

Footnotes:

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

**EUPURGECLEANEAST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Formerly EU-SOLVENT-WIPE. Emissions from purge solvent, solvent wipes, and body wipe cleaners throughout the body shop, east paint shop, and final assembly portions of the plant. After installation of the east concentrator and east RTO, VOC emissions from the solvent-based purge materials used within the basecoat and clearcoat booths are controlled except when collected in the purge collection system.

Flexible Group ID: FGACTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

After installation of the east concentrator and east RTO, VOC emissions from the solvent-based purge materials used within the basecoat and clearcoat booths are controlled except when collected in the purge collection system.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	488.6 pph ^{β,D}	Per hour operated in a calendar month	EUPURGECLEANEAST	SC VI.5	R 336.2902 (formerly R 336.1220)
2. VOC	1502.58 tpy ^D	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANEAST	SC VI.5	R 336.2902 (formerly R 336.1220)
3. VOC	440.0 pph ^{β,C}	Per hour operated in a calendar month	EUPURGECLEANEAST	SC VI.5	R 336.2908
4. VOC	555.0 tpy ^C	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANEAST	SC VI.5	R 336.2908
5. VOC	245.1 tpy ^E	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANEAST	SC VI.6	R 336.2908

^β Based upon monthly values using methods acceptable to the AQD.

^C This emission limit shall become applicable based on the requirements in SC IX.1, unless the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.5 is applicable.

^D These emission limits are applicable until the requirements in SC IX.1 are met and SCs I.3 and I.4 become applicable, unless the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.5 is applicable.

^E This emission limit shall become applicable when the requirements in FGPSWEST/NEWEAST SC IX.2 are met.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall not process solvent borne purge materials in the coating booth portions of EU-COLOR-ONE unless the east concentrator and east RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.2908(3))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.2908)**
3. Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall monitor and record the combustion chamber temperature in the east RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**
4. Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPURGECLEANEAST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(R 336.1702(a), R 336.1910, R 336.2908)**
5. Until the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall keep the following records/calculations using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. **(R 336.2902, R 336.2908)**
 - a) The plant production hours, monthly records.
 - b) The quantity of materials used, monthly records.
 - c) The material identification.
 - d) Material VOC content; in pounds per unit quantity.
 - e) Calculations showing the VOC mass emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.2902, R 336.2908)**

6. Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUPURGECLEANEAST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:
 - a) For each material used:
 - i. A description of the material, its purpose, and its VOC content in pounds per gallon.
 - ii. The total amount used, and the amount used in the automatic zones of EU-COLOR-ONE, both in gallons.
 - iii. The amount in gallons reclaimed, where applicable.
 - b) The total amount of purge solvent used in gallons per month and gallons per 12-month rolling time period as determined at the end of each calendar month.
 - c) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month. In performing these calculations, the actual tested control efficiency over EU-COLOR-ONE, shall be applied to the materials used in the controlled automatic zones.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1702(a), R 336.2908)**

VII. REPORTING

1. Quarterly reporting of VOC emissions and solvent/coating usage data (the usage data need not be submitted but shall be kept on file) within 30 days following the end of the quarter in which the data were collected. **(R 336.1201(3))**
2. The permittee shall send written notification to the AQD District Supervisor within 30 days of the startup of the automotive assembly line associated with PTI #14-19A for FCA USA LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A. **(R 336.1201(7))**

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. SVBTHCONCEAST	60	106	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVRTOEAST	60	114	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. EUPURGECLEANEAST shall become subject to the emission limits listed in SC I.3 & SC I.4 and no longer subject to SC I.1 & SC I.2 upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A. **(R 336.2908)**
2. Once the requirements of FGPSWEST/NEWEAST SC IX.2 are met, EUPURGECLEANEAST shall become subject to the emission limit listed in SC I.5 and no longer subject to the emission limits in SC I.1, SC I.2, SC I.3, and SC I.4. **(R 336.2908)**

Footnotes:

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

**EUSPOTREPAIREAST
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Spot repair process in the east paint shop, prior to the topcoat application.

Flexible Group ID: FGAUTOMACT, FGCONTROLS, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the spot repair process, which is then exhausted to the atmosphere.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	4.8 lbs VOC per gallon (minus water), as applied	Calendar Month Average	EUSPOTREPAIREAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908
2. VOC	0.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUSPOTREPAIREAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1331
4. PM10	0.026 pph	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
5. PM2.5	0.026 pph	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EUSPOTREPAIREAST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied in EUSPOTREPAIREAST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative station of EUSPOTREPAIREAST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUSPOTREPAIREAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSPOTREPAIREAST. The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.

- e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

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. SVDS_SPOTEAST	41	106	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUSPOTREPAIREAST. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

**EUSEALERS
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Formerly EU-SEALERS&ADHESIVES. Various manual and robotic sealers and adhesive (including glass bonding) application stations/booths. Sealers and adhesives are applied at various decks in both west and east paint shops (some of which are cured in the sealer oven), the body shop, and the final assembly areas of the facility.

Flexible Group ID: FGACTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	0.25 lbs VOC per gallon (minus water), as applied	Calendar Month Average	EUSEALERS	SC VI.3	R 336.1205, R 336.1702(a), R 336.2908
2. VOC	26.8 tpy	12-month rolling time period as determined at the end of each calendar month	EUSEALERS	SC VI.3	R 336.1205, R 336.1702(a), R 336.2908
3. VOC	11.1 tpy	12-month rolling time period as determined at the end of each calendar month	Sealers and adhesives used in the west Paint Shop portion of EUSEALERS	SC VI.3	R 336.1205, R 336.1702(a), R 336.2908

4. There shall be no visible emissions from SVSLROVENEAST (R 336.1301, 40 CFR 52.21 (c) & (d))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any sealer or adhesive as applied in EUSEALERS, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any sealer, adhesive, or deadener material shall be verified by testing using federal Reference Test Method 24. **(R 336.2004, R 336.2040, R 336.2041, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1702, R 336.2908)**
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 used in EUSEALERS. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSEALERS. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions for materials used in the West Paint Shop portion of EUSEALERS in tons per month and tons per year based on a 12-month rolling time period as determined at the end of each calendar month.
 - e) VOC emission calculations determining the total VOC mass emissions in tons per month and tons per year based on a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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. SVSLROVENEAST	48	90	R 336.1225, 40 CFR 52.21(c) & (d)

2. Sealers applied in the west paint shop shall not be directly discharged to the ambient air at any time.¹
(R 336.1225)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and IIII, as they apply to EUSEALERS. **(40 CFR Part 63 Subparts A and IIII)**

Footnotes:

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

**EUFINALREPAIR
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Formerly EU-FINAL-REPAIR: Final repair operations including a coating area. Prep booths or sanding booths are equipped with side-draft dry filter particulate control systems. Spray booths are equipped with downdraft dry filter particulate control system. Emissions are exhausted to the general in-plant environment.

Flexible Group ID: FGACTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Side-draft dry filter particulate controls on sanding booths. Downdraft dry filter particulate control systems on spray booths.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	4.8 lb/gal (minus water), as applied	Daily volume weighted average	EUFINALREPAIR	SC V.1, VI.4	R 336.1702(a), R 336.2908
2. VOC	1.2 tpy	12-month rolling time period as determined at the end of each calendar month	EUFINALREPAIR	SC V,1, VI.4	R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EUFINALREPAIR unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUFINALREPAIR. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUFINALREPAIR. The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.
 - e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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:

1. The exhaust gases from EUFINALREPAIR shall not be directly discharged to the ambient air at any time. **(R 336.1225, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUFINALREPAIR. **(40 CFR Part 63, Subparts A and Subpart IIII)**

Footnotes:

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

**EUFLUIDFILL
EMISSION UNIT CONDITIONS**

DESCRIPTION

Formerly EU-FLUID-FILL: Each vehicle will be filled with various fluids such as gasoline, antifreeze, transmission fluid, power steering fluid, and windshield washer fluid.

Flexible Group ID: FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	2.7 tpy	12-month rolling time period as determined at the end of each calendar month	EUFLUIDFILL	VI.3	R 336.1205, R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not add gasoline to any vehicle without an Onboard Re-fueling Vapor Recovery system. **(R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe. **(R 336.1703(1), R 336.2908)**
2. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a vapor balance system or an equivalent control system approved by the Department. The vapor balance system shall capture displaced gasoline vapor and air via a vaportight collection line and shall be designed to return not less than 90% by weight of the displaced gasoline vapor from the stationary vessel to the delivery vessel. The respective stationary vessels shall be equipped, maintained, or controlled with the following: **(R 336.1703(2), R 336.2908)**
 - a) An interlocking system or procedure to ensure that the vaportight collection line is connected before any gasoline can be loaded.
 - b) A device to ensure that the vaportight collection line shall close upon disconnection so as to prevent release of gasoline vapor.

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall keep the following records on a monthly basis using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. **(R 336.1702, R 336.2908)**
 - a) The quantity of materials used.
 - b) The material identification.
 - c) Material VOC content; in pounds per unit quantity.
 - d) Calculations showing the VOC emission rate in tons per month and tons per 12-month rolling time period, as determined at the end of each calendar month.

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUTRIMBOILER EMISSION UNIT CONDITIONS

DESCRIPTION

A 37 million BTU heat input per hour (Cleaver Brooks) natural gas only boiler, equipped with low NO_x burners.

Flexible Group ID: FGBOILERMACTHWG, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Low NO_x burner

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only natural gas in EUTRIMBOILER. . (R 336.1225, R 336.1702(a))

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum design heat input capacity for EUTRIMBOILER shall not exceed 37 MMBTU/hr on a fuel heat input basis. (R 336.1225, 40 CFR 52.21(c) & (d))
2. The permittee shall not operate EUTRIMBOILER unless low NO_x burners are installed, maintained, and operated in a satisfactory manner. (R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

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. (R 336.1205(1)(a) & (b), R 336.1225, R 336.1702)
2. The permittee shall keep monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis, and a 12-month rolling time period basis. The records must indicate the total amount of natural gas used in EUTRIMBOILER. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(1)(a) & (b), 40 CFR 60.48c(g))
3. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions. This information shall include, but shall not be limited to the following:
 - a) Monitoring data.
 - b) Verification of heat input capacity required to show compliance with SC IV.1.
 - c) Identification, type, and the amounts of fuel combusted in EUTRIMBOILER on a calendar month basis.
 - d) All records required by 40 CFR 60.7 and 40 CFR 60.48c.

All of the above information shall be stored in a format acceptable to the AQD and shall be consistent with the requirements of 40 CFR 60.7(f). **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 60.7(f))**

VII. REPORTING

1. The permittee shall provide written notification of the date construction commences and actual startup of EUTRIMBOILER, in accordance with 40 CFR 60.7 and 40 CFR 60.48c. The notification shall include the design heat input, an identification of the fuels to be combusted and the annual capacity factor for EUTRIMBOILER. The permittee shall submit this notification to the AQD District Supervisor within the time frames specified in 40 CFR 60.7. **(40 CFR 60.7, 40 CFR 60.48c)**

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. SVTRMBOIL	32	65	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to EUTRIMBOILER. **(40 CFR Part 60, Subparts A & Dc)**

Footnotes:

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

FLEXIBLE GROUP SPECIAL CONDITIONS

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
FGTOPCOATEAST	Formerly FG-TOPCOAT: Two topcoat lines (EU-COLOR-ONE & EU-COLOR-TWO) and one high bake-repair operation (EU-REPROCESS), which is a part of the topcoat system. Each topcoat line consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Reprocess is high bake-repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. While Color1 (36 JPH) and Color2 (36 JPH) lines are identical topcoat lines (72 JPH), reprocess line is shorter and slower.	EU-COLOR-ONE, EU-COLOR-TWO, EU-REPROCESS
FGCONTROLS	Concentrators and RTOs used for control of VOC emissions as applicable from the paint spray booths, flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and sanding/repair booths and as pre-filtration to VOC control devices.	EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EU-COLOR-ONE, EU-REPROCESS, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUFINALREPAIR, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2
FGSPOTPRIMEWEST	Two spot prime processes in the west paint shop. One that is placed after the E-coat process and prior to the primer application process, and one that is located after the primer process and prior to topcoat application.	EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2
FGRTOWEST	This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the west paint shop concentrator and west RTO.	EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST
FGRTOEAST	This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the east paint shop concentrator and RTO associated with EUECOATEAST, EUPURGECLEANEAST, and the refurbished spray booth portion of EU-COLOR-ONE	EUECOATEAST, EU-COLOR-ONE, EU-PURGECLEANEAST
FGBOILERS	Four (4) natural gas fired boilers to produce steam and heat located in the powerhouse. Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.	EUBOILER3, EUBOILER4, EUBOILER5, EUBOILER6

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-OLDMACT	<p>FG-OLDMACT: The affected source is each new, reconstructed, or existing Organic Liquid Distribution (OLD) (non-gasoline) operation that is located at, or is part of a major source of hazardous air pollutant (HAP) emissions. The affected source is comprised of storage tanks, transfer racks, equipment leak components associated with storage tanks, transfer racks and pipelines, transport vehicles, and all containers while loading or unloading at transfer racks subject to this subpart. Equipment that is part of an affected source under another NESHAP is excluded from the affected source. (40 CFR 63.2338(c))</p> <p>These conditions specifically cover existing (construction pre dates April 2, 2002) liquid storage tanks which hold more than 5,000 gallons but less than 50,000 gallons and/or new liquid storage tanks which hold more than 5,000 gallons but less than 10,000 gallons of methanol/windshield washer fill solvents that are dispensed to newly assembled vehicles.</p>	EUMETANK
FGNGEMENG	Emergency engines subject to 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines greater than 500 HP constructed on or after January 1, 2009.	EUNGGEN1
FGPSWEST/NEWEAST	All process equipment associated with the installation of the west paint shop and modernization of the east paint shop, body shop, and final assembly.	EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSEALERS, EUSPOTREPAIREAST, EUFINALREPAIR, EUFLUIDFILL, EU-COLOR-ONE, EU-REPROCESS, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUDSBCHWG, EUDSSBHWG, EUDSSCHWG, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUNGGEN1, EU-TRIMBOILER

**FGTOPCOATEAST
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Formerly FG-TOPCOAT: Two topcoat lines (EU-COLOR-ONE & EU-COLOR-TWO) and one high bake-repair operation (EU-REPROCESS), which is a part of the topcoat system. Each topcoat line consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Reprocess is high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. While Color1 (36 JPH) and Color2 (36 JPH) lines are identical topcoat lines (72 JPH), reprocess line is shorter and slower.

Emission Unit: EU-COLOR-ONE, EU-COLOR-TWO, EU-REPROCESS

POLLUTION CONTROL EQUIPMENT

Downdraft water wash system for the spray booths of EU-COLOR-ONE. A thermal oxidizer for bake oven of EU-COLOR-ONE. Downdraft water wash system for the spray booths of EU-COLOR-TWO. A thermal oxidizer for bake oven of EU-COLOR-TWO. Downdraft water wash system for the spray booths of EU-REPROCESS. A thermal oxidizer for bake oven of EU-REPROCESS. The east concentrator and east RTO control the spray booth portions of EU-COLOR-ONE after installation.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	1.47 ^θ kg per liter of applied coating solids (12.3 lb/GACS)	Calendar month average	FGTOPCOATEAST	SC V.2, SC VI.3, SC VI.5	R 336.1702(a) 40 CFR 60 Subpart MM
2. VOCs	270.2 pph ^{β,D}	Per hour operated in a calendar month	Spray booths of EU-COLOR-ONE	SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
3. VOCs	582.11 tpy ^D	12-month rolling time period as determined at the end of each calendar month	Spray booths of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO)	SC VI.5	R 336.2902 (formerly, R 336.1220)
4. VOCs	6.8 pph ^β	Per hour operated in a calendar month	Bake Ovens of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO)	SC V.3, SC V.4, SC VI.3, SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
5. VOCs	15.67 tpy	12-month rolling time period as determined at the end of each calendar month	Bake Ovens of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO)	SC VI.5	R 336.2902 (formerly, R 336.1220)
6. VOCs	89.9 pph ^{β,D}	Per hour operated in a calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
7. VOCs	193.74 tpy ^D	12-month rolling time period as determined at the end of each calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC VI.5	R 336.2902 (formerly, R 336.1220)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
8. VOCs	2.3 pph ^β	Per hour operated in a calendar month	High Bake Repair bake oven (EU-REPROCESS)	SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
9. VOCs	5.22 tpy	12-month rolling time period as determined at the end of each calendar month	High Bake Repair bake oven (EU-REPROCESS)	SC VI.5	R 336.2902 (formerly, R 336.1220)
10. VOCs	45.0 pph ^{β,C}	Per hour operated in a calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC VI.3, SC VI.4, SC VI.5	R 336.2908
11. VOCs	40.0 tpy ^C	12-month rolling time period as determined at the end of each calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC V.1, SC VI.7	R 336.2908
12. VOCs	193.0 tpy ^C	12-month rolling time period as determined at the end of each calendar month	Spray booths of EU-COLOR-ONE	SC VI.5	R 336.2908
13. VOCs	270.2 pph ^{β,E}	Per hour operated in a calendar month	Spray booths of EU-COLOR-TWO	SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
14. VOCs	430.0 tpy ^F	12-month rolling time period as determined at the end of each calendar month	Spray booths of EU-COLOR-TWO	SC VI.5	R 336.2908
15. VOCs	3.53 lb/GACS ^{θ,H}	Calendar month average	EU-COLOR-ONE (spray booths and oven)	SC VI.3, SC VI.5	R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
16. VOCs	201.6 tpy ^H	12-month rolling time period as determined at the end of each calendar month	EU-COLOR-ONE (spray booths and oven)	SC VI.5	R 336.1702(a), R 336.2908
17. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^{G,I}	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1331
18. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^{G,I}	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1331
19. PM10	0.218 pph ^I	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
20. PM10	0.173 pph ^I	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
21. PM2.5	0.218 pph ^I	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
22. PM2.5	0.173 pph ^I	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
<p>^BPer the EPA Protocol (VI(4) & (5))</p> <p>^BBased upon monthly values using methods acceptable to AQD.</p> <p>^CThis emission limit shall become applicable based on the requirements in SC IX.2.</p> <p>^DThis emission limit shall be applicable until the requirements in SC IX.3 are met and SCs I.10, I.11, I.12, I.14 become applicable.</p> <p>^EThis emission limit shall be applicable until the permanent shut down of EU-COLOR-TWO as required by SC IX.5.</p> <p>^FThis emission limit shall become applicable based on the requirements in SC IX.2 and shall be applicable until the permanent shut down of EU-COLOR-TWO as required by SC IX.5.</p> <p>^GCalculated on a wet gas basis.</p> <p>^HThis emission limit shall be applicable upon startup of any emission unit in the West Paint Shop.</p> <p>^IThis emission limit shall be applicable upon startup of the refurbished EU-COLOR-ONE after control equipment has been installed.</p>					

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the bake oven portions of FGTOPCOATEAST unless the respective associated thermal oxidizer is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer(s) includes maintaining a minimum oxidizer combustion chamber temperature at the temperature determined during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1910)**
2. The permittee shall not operate FGTOPCOATEAST unless the associated water wash systems are installed and operating properly. Satisfactory operation of the water wash system includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1910)**
3. Upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack, the permittee shall not operate the spray booth portions of EU-COLOR-ONE unless the east concentrator and east RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer’s recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer’s recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.2908(3))**

V. TESTING/SAMPLING

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

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

Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.2004, R 336.2040, R 336.2041)**

2. Verification of the Transfer Efficiency (TE) rates of each topcoat line (TE test on one of the identical lines is sufficient if the permittee can demonstrate that the topcoat lines are identical) by testing, at owners' expense, is required according to the following schedule:
 - a) Within 180 days of issuance of the permit, if an acceptable Transfer Efficiency (TE) test has not been conducted within five years prior to the issuance of the permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.
 - b) Within 180 days of making any changes in operating conditions which necessitate reevaluation of the transfer efficiency, as required by the EPA Protocol.

Verification of the Transfer Efficiency (TE) rate includes the submittal (within 60 calendar days following the last date of the sampling to both the AQD District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than 30 days prior to testing, a complete testing plan must be submitted to AQD. The final plan must be approved by AQD prior to testing. Not less than seven days before any test are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. **(R 336.2001(3))**

3. Verification of Oven Exhaust Control Device VOC Loading rates of each Topcoat line (OECD loading test on one of the identical lines is sufficient if the permittee can demonstrate that the topcoat lines are identical) and high bake repair operation by testing, at owner expense, is required according to the following schedule:
 - a) Within 180 days of issuance of the permit, if an Oven Exhaust Control Device VOC Loading test has not been conducted within five years prior to the issuance of the permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.
 - b) Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Oven Exhaust Control Device VOC Loading rates.

Verification of Oven Exhaust Control Device VOC Loading rates includes the submittal (within 60 calendar days following the last date of the sampling to both the AQD District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. **(R 336.2001(3))**

4. Verification of Destruction Efficiency (DE) of the Thermal Oxidizer for the associated oven of each topcoat line and high bake repair operation by testing, at owner expense, is required according to the following schedule:
 - a) Within 180 days of issuance of the permit, if Destruction Efficiency (DE) test of the Thermal Oxidizer for the oven has not been conducted within five years prior to the issuance of the permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.
 - b) Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Destruction Efficiency (DE) of the Thermal Oxidizer.

Verification of Destruction Efficiency (DE) of the Thermal Oxidizer for the oven includes the submittal (within 60 calendar days following the last date of the sampling to both the AQD District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. **(R 336.2001(3))**

5. Within 365 days of commencing operation of control equipment, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EU-COLOR-ONE to the east concentrator and east RTO, by testing at owner's expense, in accordance with Department requirements, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an

approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

6. Within 365 days of commencing operation of control equipment, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the east concentrator and destruction efficiency of the east RTO in the spray booth portion of EU-COLOR-ONE by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in FGTOPCOATEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall install, calibrate (in accordance with manufacturer's recommendation), and maintain measurement and recording devices to monitor each thermal oxidizer temperature. A temperature measurement device shall have an accuracy of greater than ± 0.75 percent of the temperature being measured expressed in degree Celsius or ± 2.5 °C. The temperature measurement device shall be equipped with recording device so that permanent, continuous record of the thermal oxidizer temperature is produced. **(R 336.1201(3) & 40 CFR Part 60 Subpart MM 60.394)**
5. Records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in accordance with the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended (The EPA Protocol): **(R 336.2902, R 336.2908)**
 - a) For each type of coating used during the calendar month:
 - i. Coating identification.
 - ii. Analytical VOC content as determined by EPA Reference Test Method 24.
 - iii. Formulation VOC and volume solids content.
 - iv. Coating usage (daily or monthly), including withdrawals.
 - v. Dilution solvent usage and density.

- b) Number of vehicles coated per production day by body style, coating color, and square footage coated (or equivalent unit), unless daily coating records are kept.
 - c) Transfer Efficiency (TE):
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) from most recent test.
 - iii. Annual review of operating conditions to demonstrate that the transfer efficiency remains valid.
 - d) Oven exhaust control device VOC loading (booth/oven split):
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) from most recent test.
 - iii. Annual review of operating conditions to demonstrated that the oven exhaust control device VOC loading remains valid.
 - e) Destruction Efficiency (DE)of the control devices:
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) derived from most recent test.
6. Plant production hours: Monthly records. **(R 336.2902, R 336.2908)**
 7. Records of the VOC mass emission rates (pounds per hour, tons per month, and tons per 12-month rolling time period) shall be calculated according to the method in Appendix 7 or an alternative method that is acceptable to AQD. **(R 336.2902, R 336.2908)**
 8. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for the RTO in the spray booth portions of EU-COLOR-ONE, and the thermal oxidizer in the bake oven portions of EU-COLOR-ONE, EU-COLOR-TWO, and EU-REPROCESS, to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910, R 336.2908(3))**
 9. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, temperature monitoring devices for the concentrator in the spray booth portions of EU-COLOR-ONE to monitor and record the desorption gas inlet temperature on a continuous basis during operation. Gas temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910, R 336.2908(3))**
 10. The permittee shall maintain records of maintenance and repair activities for FGTOPCOATEAST. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**
 11. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 52.21(c) and (d))**
 12. For the RTO and concentrator portions of EU-COLOR-ONE, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. **(R 336.1702, R 336.1910, R 336.2908)**
 13. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the concentrator and RTO control devices used to demonstrate compliance with the applicable VOC emission limits: **(R 336.1910, R 336.1911)**
 - a. Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation. (Both RTO and concentrator).

- b. Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months for the RTO.
- c. Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months for the RTO.
- d. Perform quarterly pressure drop readings across the concentrator.

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

VII. REPORTING

1. Quarterly reporting of the emissions data with an acceptable format to AQD. Due within 30 days of the end of the quarter in which the data were collected. **(NSPS 40 CFR, Part 60 Subparts A & MM)**
2. The permittee shall send written notification to the AQD District Supervisor within 30 days of the start of production of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. **(R 336.1201(7))**
3. The permittee shall send written notification to the AQD District Supervisor within 30 days of temporarily shutting down EU-COLOR-ONE for repair operations and installation of control equipment. **(R 336.1201(7))**
4. The permittee shall send written notification to the AQD District Supervisor within 30 days of commencing operation of control equipment on EU-COLOR-ONE. **(R 336.1201(7))**
5. The permittee shall send written notification to the AQD District Supervisor within 30 days of permanently shutting down EU-COLOR-TWO. **(R 336.1201(7))**

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. SVBC1OBEAST1	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBC1OBEAST2	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVBC1OBEAST3	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVCC1OBEAST1	34	106	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVCC1OBEAST2	33	106	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVBTHCONCEAST	60	106	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVRTOEAST	60	114	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVEXC1INC	36	95	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVHIBKTO	36	90	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVHIBKBTH	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVSMB-G-03-01 ^C	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVSMB-G-03-01 ^C	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVSMB-G-03-01 ^C	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
14. SVSMB-G-03-01 ^C	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
15. SVSMB-G-10-01 ^C	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
16. SVSMB-G-12-01 ^C	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
17. SVSMB-G-13-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
18. SVSMB-G-13-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
19. SVSMB-G-13-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
20. SVSMB-G-13-C1-04 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
21. SVSMB-G-14-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
22. SVSMB-G-14-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
23. SVSMB-G-14-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
24. SVSMB-G-14-C1-04 ^D	NA	105 ¹	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
25. SVSMB-G-15-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
26. SVSMB-G-15-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
27. SVSMB-G-15-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
28. SVSMB-G-15-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
29. SVSMB-G-16-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
30. SVSMB-G-16-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
31. SVSMB-G-16-C1-04 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
32. SVSMB-G-17-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
33. SVSMB-G-17-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
34. SVSMB-G-17-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
35. SVSMB-G-17-C1-04 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
36. SVSMB-G-18-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
37. SVSMB-G-18-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
38. SVSMB-G-18-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
39. SVSMB-G-19-C1-01 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
40. SVSMB-G-19-C1-02 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
41. SVSMB-G-19-C1-03 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
42. SVSMB-G-19-C1-04 ^D	NA	105 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
43. SVSMB-H-02-01 ^E	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
44. SVSMB-H-03-01 ^E	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
45. SVSMB-H-03-02 ^E	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
46. SVSMB-H-08-02 ^E	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
47. SVSMB-H-10-02 ^E	NA	42 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
48. SVSMB-H-12-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
49. SVSMB-H-14-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
50. SVSMB-H-14-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
51. SVSMB-H-14-C2-03 ^E	NA	90 ¹	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
52. SVSMB-H-14-C2-04 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
53. SVSMB-H-15-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
54. SVSMB-H-15-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
55. SVSMB-H-15-C2-03 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
56. SVSMB-H-16-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
57. SVSMB-H-16-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
58. SVSMB-H-16-C2-03 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
59. SVSMB-H-16-C2-04 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
60. SVSMB-H-17-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
61. SVSMB-H-17-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
62. SVSMB-H-17-C2-03 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
63. SVSMB-H-17-C2-04 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
64. SVSMB-H-18-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
65. SVSMB-H-18-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
66. SVSMB-H-18-C2-03 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
67. SVSMB-H-19-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
68. SVSMB-H-19-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
69. SVSMB-H-19-C2-03 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
70. SVSMB-H-19-C2-04 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
71. SVSMB-H-20-C2-01 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)
72. SVSMB-H-20-C2-02 ^E	NA	90 ¹	R 336.1225, 40 CFR 52.21(c) & (d)

^CThese stacks are existing stacks for the EU-COLOR-ONE oven and incinerator and will be replaced with SVEXC1INC upon completion of construction.

^DThese stacks are existing EU-COLOR-ONE spray booth stack. These stacks will be replaced by SVBC1OBEAST, SVCC1OBEAST, SVBTHCONCEAST, and SVRTOEAST upon completion of construction on EU-COLOR-ONE.

^EThese stacks are existing EU-COLOR-TWO stacks and will no longer be in use after permanent shutdown of EU-COLOR-TWO as required in SC IX.5.

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart MM (Standards of Performance for Automobile and Truck Surface Coating Operations) and Subpart A (General Provisions). **(40 CFR Part 60 Subpart MM)**
2. The following Emission Limits in FGTOPCOATEAST shall become applicable upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A: **(R 336.2908)**
 - a. SC I.10 and SC I.11 for EU-REPROCESS.
 - b. SC I.12 for EU-COLOR-ONE.
 - c. SC I.14 for EU-COLOR-TWO.
3. The following Emission Limits in FGTOPCOATEAST shall no longer be applicable upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A: **(R 336.2908)**
 - a. SC I.3 for EU-COLOR-ONE and EU-COLOR-TWO.
 - b. SC I.6 and SC I.7 for EU-REPROCESS.
4. The permittee shall temporarily shut down EU-COLOR-ONE on or before July 31, 2020, for repair operations and installation of a concentrator and RTO. Thereafter, EU-COLOR-ONE shall not be operated unless the control equipment is operating in a satisfactory manner. **(R 336.2908)**
5. The permittee shall permanently shut down EU-COLOR-TWO on or before September 30, 2021. **(R 336.2908)**

Footnotes:

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

FGCONTROLS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Concentrators and RTOs used for control of VOC emissions as applicable from the paint spray booths, flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and sanding/repair booths and as pre-filtration to VOC control devices.

Emission Units: EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EU-COLOR-ONE, EU-REPROCESS, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUFINALREPAIR, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2

POLLUTION CONTROL EQUIPMENT

The west concentrator and west RTO used for control of VOC emissions from EUPRIMERWEST spray booth and flash-off areas, EUTOPCOATWEST spray booth and flash-off areas, and solvent borne purge materials from west primer and west clearcoat booths not captured in the purge collection system. The west RTO only used for control of VOC emissions from the EUECOATWEST tank and curing oven, EUPRIMERWEST curing oven, and EUTOPCOATWEST curing oven. The east concentrator and east RTO used for control of VOC emissions from EU-COLOR-ONE spray booth and flash-off areas. The east RTO only used for control of VOC emissions from EUECOATEAST tank and curing oven. A thermal oxidizer used for control of VOC emissions from the EU-COLOR-ONE cure oven. A thermal oxidizer used for control of VOC emissions from the EU-REPROCESS. Waterwash particulate control systems on all paint spray booths and observation zones. Dry filter particulate control systems on all sanding and repair booths and all flash-off areas. Dry filter particulate control systems on all air supply housing (ASH), air handling units (AHU), space heating units, and all curing ovens in the E-coat, primer, and topcoat operations.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District

Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1205, R 336.1225, R 336.1702, R 336.1910, R 336.1911, R 336.2908, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for the thermal oxidizers in FGCONTROLS to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910, R 336.2908(3))**
2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, temperature monitoring devices for the concentrators in FGCONTROLS to determine the concentrator inlet and outlet temperatures on a continuous basis during operation. Gas temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**
3. The permittee shall maintain records of maintenance and repair activities for FGCONTROLS. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**
4. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 52.21(c) and (d))**
5. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of +/- 5 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 °C. **(R 336.1910, 40 CFR 60.394(b))**
6. For the thermal oxidizers, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. **(R 336.1702, R 336.1910, R 336.2908)**
7. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the thermal oxidizer control device(s) used to demonstrate compliance with the applicable VOC emission limits: **(R 336.1910, R 336.1911)**
 - a) Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
 - b) Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.

- c) Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.
- d) Perform quarterly pressure drop readings across the concentrator.

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGSPOTPRIMEWEST
EMISSION UNIT CONDITIONS**

DESCRIPTION

Two spot prime processes in the west paint shop. One that is placed after the E-coat process and prior to the primer application process, and one that is located after the primer process and prior to topcoat application

Emission Unit IDs: EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the west spot prime booths 1 and 2 are exhausted to the atmosphere.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	1.0 ton per month	Calendar Month	Each emission unit in FGSPOTPRIMEWEST	SC VI.3	R 336.1702(d), R336.2908
2. VOC	1.36 tpy	12-month rolling time period as determined at the end of each calendar month	FGSPOTREPAIRWEST	SC VI.3	R 336.1702(a), R336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTPRIMEWEST1	SC V.2	R 336.1331
4. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTPRIMEWEST2	SC V.2	R 336.1331
5. PM10	0.026 pph	Hourly	Each emission unit in FGSPOTPRIMEWEST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
6. PM2.5	0.026 pph	Hourly	Each emission unit in FGSPOTPRIMEWEST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate any emission unit in FGSPOTPRIMEWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)**
2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative emission unit in FGSPOTPRIMEWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in FGSPOTPRIMEWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in FGSPOTPRIMEWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.

- d) The VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

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. SVSPOTPRMWEST1	26	75	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVSPOTPRMWEST2	44	113	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to FGSPOTPRIMEWEST. **(40 CFR Part 63, Subparts A and Subpart IIII)**

Footnotes:

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

**FGRTOWEST
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the west paint shop concentrator and west RTO.

Emission Unit: EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST

POLLUTION CONTROL EQUIPMENT

EUPRIMERWEST coating booth overspray is controlled by a waterwash particulate control system. A portion of the EUPRIMERWEST coating booth exhaust will be filtered and recirculated to the booth air make-up system. EUPRIMERWEST coating booth and flash-off area emissions are exhausted through a bank of particulate filters, the west concentrator, and the west RTO. EUPRIMERWEST oven emissions are exhausted through a bank of filters and directly to the west RTO. EUTOPCOATWEST booth and flash-off exhausts are routed through a bank of particulate filters, the west concentrator, and the west RTO. EUTOPCOATWEST oven emissions are exhausted directly to the west RTO. Dry filter particulate control systems on all direct-fire air supply housing (ASH), air handling units (AHU), and curing ovens in EUECOATWEST, EUPRIMERWEST, and EUTOPCOATWEST.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.0032 lbs per 1,000 lbs of exhaust gas ^a	Hourly	RTO portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)
2. PM10	0.518 pph	Hourly	RTO portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
3. PM2.5	0.518 pph	Hourly	RTO portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
4. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	Concentrator portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)
5. PM10	0.123 pph	Hourly	Concentrator portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
6. PM2.5	0.123 pph	Hourly	Concentrator portion of FGRTOWEST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
7. NOx	3.29 pph	Hourly	Concentrator and RTO portions of FGRTOWEST, combined	SC V.2	40 CFR 52.21 (c) & (d)

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM_{2.5}, PM₁₀, and PM emission rates of the concentrator and RTO portions of FGRTOWEST, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM ₁₀ /PM _{2.5}	40 CFR Part 51, Appendix M

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the combined NO_x emission rate from the west concentrator and the west RTO portion of FGRTOWEST, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

NA

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. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBTHCONCWEST	68	113	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGRTOEAST
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the east paint shop concentrator and RTO associated with EUECOATEAST, EUPURGECLEANEAST, and the refurbished spray booth portion of EU-COLOR-ONE

Emission Unit: EUECOATEAST, EU-COLOR-ONE, EU-PURGECLEANEAST

POLLUTION CONTROL EQUIPMENT

EU-COLOR-ONE coating booth overspray is controlled by a waterwash particulate control system. A portion of the EU-COLOR-ONE coating booth exhaust is filtered and recirculated to the booth air make-up system. EU-COLOR-ONE coating booth and flash-off area emissions are exhausted through a bank of particulate filters, the east concentrator, and the east RTO. Dry filter particulate control systems on all direct-fire air supply housing (ASH) and air handling units (AHU) in EUECOATEAST and EU-COLOR-ONE.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.0032 lbs per 1,000 lbs of exhaust gas ^a	Hourly	RTO portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)
2. PM10	0.518 pph	Hourly	RTO portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
3. PM2.5	0.518 pph	Hourly	RTO portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
4. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	Concentrator portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)
5. PM10	0.148 pph	Hourly	Concentrator portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
6. PM2.5	0.148 pph	Hourly	Concentrator portion of FGRTOEAST	SC V.1	R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)
7. NOx	6.39 pph	Hourly	Concentrator and RTO portions of FGRTOEAST, combined	SC V.2	40 CFR 52.21 (c) & (d)

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM_{2.5}, PM₁₀, and PM emission rates of the concentrator and RTO portions of FGRTOEAST, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM ₁₀ /PM _{2.5}	40 CFR Part 51, Appendix M

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the combined NO_x emission rate from the east concentrator and the east RTO portion, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

NA

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. SVBTHCONCEAST	60	106	40 CFR 52.21(c) & (d)
2. SVRTOEAST	60	114	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGBOILERS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Four (4) natural gas fired boilers to produce steam and heat located in the powerhouse. Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.

Emission Unit:

1. EU-BOILER3: 152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.
2. EU-BOILER4: 106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98) natural gas only boiler equipped with low NOx burners.
3. EU-BOILER5: 152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.
4. EU-BOILER6: 192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84) natural gas only boiler equipped with oxygen trim system but not low NOx burners.

POLLUTION CONTROL EQUIPMENT

Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	119.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC V.1	R 336.1201(3)
2. NOx ^A	5.43 pph	Hourly	EU-BOILER3	SC V.1	40 CFR 52.21 (c) & (d)
3. NOx ^A	6.61 pph	Hourly	EU-BOILER4	SC V.1	40 CFR 52.21 (c) & (d)
4. NOx ^A	9.59 pph	Hourly	EU-BOILER5	SC V.1	40 CFR 52.21 (c) & (d)
5. NOx ^A	27.86 pph	Hourly	EU-BOILER6	SC V.1	40 CFR 52.21 (c) & (d)

^AThis emission limit becomes applicable upon startup of the west paint shop.

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	1,305 Million (MM) standard cubic feet per year	12-month rolling time period	FGBOILERS	SC VI.1	R 336.1201(3)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only burn pipeline quality sweet natural gas in FG-BOILERS. **(R 336.1201(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production from the west paint shop, the permittee shall conduct initial testing, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify NOx emission rates from each boiler in FGBOILERS by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas usage for FGBOILERS on a monthly basis. **(R 336.1201(3))**
2. The permittee shall conduct and record routine and scheduled preventative maintenance programs for FGBOILERS. **(R 336.1910)**

VII. REPORTING

NA

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. SVPH-C-08-B-03	71	74	40 CFR 52.21 (c) & (d)
2. SVPH-C-11-B-04	71	74	40 CFR 52.21 (c) & (d)
3. SVPH-C-13-B-05	71	74	40 CFR 52.21 (c) & (d)
4. SVPH-C-15-B-06	48	73	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGAUTOMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

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

Emission Unit: EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUSEALERS, EUFINALREPAIR, EU-COLOR-ONE, EU-COLOR-TWO, EU-REPROCESS, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.30 lb per GACS	Calendar Month	New/Reconstructed —FGAUTOMACT with EUECOATWEST and EUECOATEAST	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(a)
2. Organic HAP*	0.5 lb per GACS	Calendar Month	New/Reconstructed —FGAUTOMACT	SC III.3, SC V.1, SC VI.3	40 CFR 63.3091(b)
3. Organic HAP	0.01 lb per lb of coating	Calendar Month	New/Reconstructed —SEALERS & ADHESIVES	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 lb per lb of coating	Calendar Month	New/Reconstructed —Deadener Materials	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(d) or 63.3091(d)
<ul style="list-style-type: none"> • FGAUTOMACT includes Primer, Topcoat, Final Repair, Glass Bonding Primer, and Glass Bonding Adhesive operations plus all coatings and thinners, except for deadener materials and adhesive and sealers not part of glass bonding systems. • FGAUTOMACT WITH EUECOATWEST and EUECOATEAST also includes all Electrocoat operations in addition to all of the operations of FGAUTOMACT. • SEALERS & ADHESIVES include only adhesives and sealers that are not part of glass bonding systems. 					
* Permittee may choose to comply with this limit if the requirements of Condition No. I.5 is met.					

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

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

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

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee shall perform the applicable performance tests and compliance demonstrations in accordance with 40 CFR 63.3150-3152, 40 CFR 63.3160-3161, 40 CFR 63.3163-3168, 40 CFR 63.3170-3171, and 40 CFR 63.3173. **(40 CFR Part 63, Subpart IIII)**
2. The permittee may rely upon the results of capture, destruction or transfer efficiency tests that have been previously conducted upon written approval from the AQD District Supervisor. Any such previous tests must meet the criteria identified in 40 CFR 63.3160(c)(1) through (3). **(40 CFR 63.3160)**
3. The permittee shall determine the mass fraction of each organic HAP for each material used according to the procedures established under 40 CFR 63.3151(a)(1) through (5). The permittee may use USEPA Method ALT-017 as an alternative for any material used, after demonstrating that its use as an alternative test methodology for that material, has been approved by the USEPA pursuant to the requirements of 40 CFR 63.3151(a)(3) and 40 CFR 63.7. **(40 CFR 63.7, 40 CFR 63.3151)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, and 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month. **(40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))**
2. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131. **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**
3. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
 - a) A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart IIII and the documentation supporting each notification and report. **(40 CFR 63.3130(a))**
 - b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating. **(40 CFR 63.3130(b))**
 - c) For each coating or thinner used in FGAUTOMACT or FGAUTOMACT with EUECOATWEST and EUECOATEAST, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. **(40 CFR 63.3130(c))**
 - d) For each material used in EUSEALERS, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**
 - e) Calculations of the organic HAP emission rate for FGAUTOMACT or FGAUTOMACT with EUECOATWEST and EUECOATEAST in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat systems. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**
 - f) Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EUSEALERS. **(40 CFR 63.3130(c), 40 CFR 63.3152)**
 - g) The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) - (f))**

- h) Any additional records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Conditions I.1 through I.4 depends, pursuant to 40 CFR 63.3130(g) through (o). **(40 CFR 63.3130(g) – (o))**
- i) Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Conditions I.1 through I.4 depends must be maintained on-site for the life of the equipment in a location readily available to plant operators and inspectors. **(40 CFR 63.3130(o))**

VII. REPORTING

- 1. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.3120(a). The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever comes first. These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30. **(40 CFR 63.3120(a))**
- 2. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110. **(40 CFR 63, Subparts A and IIII)**

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

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

**FGBOILERMACTHWG
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This FG is for the 11 hot water generators and the Trim Boiler associated with the installation of the west paint shop and modernization of the east paint shop. Gas 1 Fuel Subcategory requirements for new Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These new boilers or process heaters must comply with the applicable provisions of this subpart upon startup.

Emission Units:

Less than 5 MMBtu/hr	NA
Equal to or greater than 5 MMBtu/hr and less than 10 MMBtu/hr	EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUDSBCHWG, EUDSSBHWG, EUDSCCHWG
Equal to or greater than 10 MMBtu/hr	EU-TRIMBOILER

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must meet the applicable requirements in paragraphs (a)(1) and (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) and (e) of 40 CFR 63.7500, stated in SC III.2 and SC III.3. The permittee must meet these requirements at all times the affected unit is operating. **(40 CFR 63.7500(a))**
 - a) The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source. **(40 CFR 63.7500(a)(1))**
 - b) At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490, stated in SC IX.1), 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))**
2. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards. **(40 CFR 63.7500(b))**
3. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 of 40 CFR Part 63, Subpart DDDDD, or the operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD. Boilers and process heaters in the units designed to burn gas 1 fuel subcategory with a heat input capacity: **(40 CFR 63.7500(e))**

- a) Of less than or equal to 5 MMBtu per hour must complete a tune-up every five years as specified in 40 CFR 63.7540, stated in SC IX.8. **(40 CFR 63.7500(e))**
 - b) Greater than 5 MMBtu per hour and less than 10 MMBtu per hour must complete a tune-up every two years as specified in 40 CFR 63.7540, stated in SC IX.8. **(40 CFR 63.7500(e))**
4. The permittee must demonstrate initial compliance with the applicable work practice standards in Table 3 to 40 CFR Part 63, Subpart DDDDD within the applicable annual, biennial, or 5-year schedule as specified in 40 CFR 63.7515(d), stated in SC III.5, following the initial compliance date specified in 40 CFR 63.7495(a), stated in SC IX.4. Thereafter, you are required to complete the applicable annual, biennial, or 5-year tune-up as specified in 40 CFR 63.7515(d), stated in SC III.5. **(40 CFR 63.7510(g))**
5. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must:
- a) Conduct the first annual tune-up no later than 13-months after the initial startup of the new or reconstructed boiler or process heater, the first biennial tune-up no later than 25-months after the initial startup of the new or reconstructed boiler or process heater, or the first 5-year tune-up no later than 61-months after the initial startup of the new or reconstructed boiler or process heater.
 - b) Conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a; biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b; or 5-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13-months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25-months after the previous tune-up. Each 5-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61-months after the previous tune-up. **(40 CFR 63.7515(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The heat input capacity of each hot water generator in FGBOILERMACT shall not exceed a maximum of 10 MMBtu per hour. **(40 CFR Part 63, Subpart DDDDD)**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(a))**
 - a) A copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.7555(a)(1))**
 - b) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.7555(a)(2))**
2. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 60 or Parts 61, Part 63, or Part 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. **(40 CFR 63.7555(h))**
3. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**
4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**

5. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining three years. **(40 CFR 63.7560(c))**

VII. REPORTING

1. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.6 through SC VII.8, and in Subpart A of 40 CFR Part 63. **(40 CFR 63.7495(d))**
2. The permittee must report each instance in which they did not meet each emission limit and operating limit in Tables 1 through 4 to this subpart that applies. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.7550, cited in SC VII.9. **(40 CFR 63.7540(b))**
3. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. **(40 CFR 63.7545(a))**
4. As specified in 40 CFR 63.9(b)(2), if the permittee starts up the affected source before January 31, 2013, the permittee must submit an Initial Notification not later than 120 days after January 31, 2013. **(40 CFR 63.7545(b))**
5. As specified in 40 CFR 63.9(b)(4) and (5), if the permittee starts up the new or reconstructed affected source on or after January 31, 2013, the permittee must submit an Initial Notification not later than 15-days after the actual date of startup of the affected source. **(40 CFR 63.7545(c))**
6. If the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545, as listed below. **(40 CFR 63.7545(f))**
 - a) Company name and address. **(40 CFR 63.7545(f)(1))**
 - b) Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
 - c) Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. **(40 CFR 63.7545(f)(3))**
 - d) Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
 - e) Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**
7. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify: **(40 CFR 63.7545(g))**
 - a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice. **(40 CFR 63.7545(g)(1))**
 - b) The currently applicable subcategories under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(g)(2))**
 - c) The date on which the permittee became subject to the currently applicable emission limits. **(40 CFR 63.7545(g)(3))**
 - d) The date upon which the permittee will commence combusting solid waste. **(40 CFR 63.7545(g)(4))**
8. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30-days of the switch/change. The notification must identify: **(40 CFR 63.7545(h))**

- a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**
 - b) The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**
 - c) The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**
9. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. **(40 CFR 63.7550(a))**
10. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, stated in SC VII.12, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. For units that are subject only to a requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c, and not subject to emission limits or operating limits, the permittee may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below, instead of a semi-annual compliance report. **(40 CFR 63.7550(b))**
- a) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3, and ending on December 31 after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. When submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within 1, 2, or 5-years, as applicable, after the compliance date that is specified in 40 CFR 63.7495. **(40 CFR 63.7550(b)(1))**
 - b) The first semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(2), 40 CFR 63.7550(b)(5))**
 - c) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1, 2, or 5-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**
 - d) Each subsequent semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), 40 CFR 63.7550(b)(5))**
11. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule. **(40 CFR 63.7550(c))**
- a) If the facility is subject to the requirements of a tune up the permittee must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(1))**
 - b) 40 CFR 63.7550(c)(5) is as follows:
 - i. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
 - ii. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - iii. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Include the date of the most recent burner inspection if it was not done annually, 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))**
 - v. 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))**

12. The permittee must submit the reports according to the procedures specified in paragraph (h)(3) of 40 CFR 63.7550, as listed below. **(40 CFR 63.7550(h))**
- a) The permittee must submit all reports required by Table 9 of 40 CFR Part 63, Subpart DDDDD electronically to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's CDX.) The permittee must use the appropriate electronic report in CEDRI for 40 CFR Part 63, Subpart DDDDD. Instead of using the electronic report in CEDRI for 40 CFR Part 63, Subpart DDDDD, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to 40 CFR Part 63, Subpart DDDDD is not available in CEDRI at the time that the report is due, the permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The permittee must begin submitting reports via CEDRI no later than 90-days after the form becomes available in CEDRI. **(40 CFR 63.7550(h)(3))**

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. 40 CFR Part 63, Subpart DDDDD applies to new or reconstructed affected sources as described in paragraph (a)(2) of 40 CFR 63.7490, as listed below. **(40 CFR 63.7490(a))**
- a) The affected source of 40 CFR Part 63, Subpart DDDDD is each new or reconstructed industrial, commercial, or institutional boiler or process heater, as defined in 40 CFR 63.7575, located at a major source. **(40 CFR 63.7490(a)(2))**
2. A boiler or process heater is:
- a) New if the permittee commences construction of the boiler or process heater after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. **(40 CFR 63.7490(b))**
- b) Reconstructed if the permittee meets the reconstruction criteria as defined in 40 CFR 63.2, the permittee commences reconstruction after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commence reconstruction. **(40 CFR 63.7490(c))**
3. If the permittee has a new or reconstructed boiler or process heater, the permittee must comply with 40 CFR Part 63, Subpart DDDDD by April 1, 2013, or upon startup of each boiler or process heater, whichever is later. **(40 CFR 63.7495(a))**
4. If the permittee has an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, paragraph (c)(2) of 40 CFR 63.7495, as listed below, applies to the permittee. **(40 CFR 63.7495(c))**
- a. Any new or reconstructed boiler or process heater at the existing source must be in compliance with this subpart upon startup. **(40 CFR 63.7495(c)(1))**
5. The permittee must be in compliance with the work practice standards of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7505(a))**
6. For affected sources, as defined in 40 CFR 63.7490, that switch subcategory consistent with 40 CFR 63.7545(h), stated in SC VII.8, after the initial compliance date, the permittee must demonstrate compliance within 60 days of the effective date of the switch, unless the compliance demonstration for this subcategory has been conducted within the previous 12 months. **(40 CFR 63.7510(k))**
7. For affected sources (as defined in 40 CFR 63.7490, stated in SC IX.1) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.8.a, and the schedule described in

40 CFR 63.7540(a)(13), stated in SC IX.8.d, for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**

8. The permittee must demonstrate continuous compliance with the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in paragraphs (a)(10) through (13) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a))**
- a) If the boiler or process heater has a heat input capacity of 10 MMBtu per hour or greater, the permittee must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. The tune-up must be conducted while burning the type of fuel or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. **(40 CFR 63.7540(a)(10))**
- i. 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 delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36-months from the previous inspection. 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))**
 - ii. 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))**
 - iii. 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). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36-months from the previous inspection. **(40 CFR 63.7540(a)(10)(iii))**
 - iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
 - v. 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))**
 - vi. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a)(10)(vi))**
 - (1) The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
 - (2) A description of any corrective actions taken as a part of the tune-up. **40 CFR 63.7540(a)(10)(vi)(B))**
 - (3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**
- b) If the boiler or process heater has a heat input capacity of less than 10 MMBtu per hour (except as specified in paragraph (a)(12) of 40 CFR 63.7540), the permittee must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. **(40 CFR 63.7540(a)(11))**
- c) If the boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 MMBtu per hour and the unit is in the units designed to burn gas 1 subcategory, the permittee must conduct a tune-up of the boiler or process heater every five years as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. The permittee may delay the burner inspection specified in paragraph (a)(10)(i) of 40 CFR 63.7540 until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every five years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. **(40 CFR 63.7540(a)(12))**

- d) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
- 9. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 applies to the permittee. **(40 CFR 63.7565)**

Footnotes:

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

FGNGWEST FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All natural gas-fired equipment associated with the installation of west paint shop portion of the Warren Truck Assembly Plant, except the emergency generators, including eight hot water generators, air supply houses, space heaters, heated flash, cure ovens, the carbon concentrator, and the RTO. In addition, this FG includes new air supply houses and space heating in the assembly area.

Emission Unit: EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUNEWNGASSEMBLY, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all equipment; RTO for VOC control of spray booths and curing ovens in EUECOAT, EUPRIMER, and EUTOPCOAT; dry filter particulate controls on direct-fired natural gas equipment.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGWEST (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNGWEST unless Low NOx burners are installed, maintained, and operated in a satisfactory manner. (R 336.1205, 40 CFR 52.21(c) & (d))
2. The permittee shall not operate any air handling units, any air supply houses, and any curing ovens in EUECOATWEST, EUPRIMERWEST, and EUTOPCOATWEST in FGNGWEST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter control system includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. (R 336.1205(1)(a) & (b), R 336.1331, 40 CFR 52.21(c) & (d))
3. All air supply houses, air handling units, and E-coat, primer, and topcoat curing oven(s) in FGNGWEST shall be direct-fired units. (R 336.1205, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall 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. (R 336.2908)

2. Based upon the records of the amount of natural gas burned and the U.S. EPA AP-42 emission factor for VOCs from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total VOC emissions for FGNGWEST. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.2908)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. Within 60 days of start-up, the permittee shall provide information acceptable to the AQD District Supervisor demonstrating the new Hot Water Generators (HWG), the new air supply houses, and the new space heaters are equipped with Low NOx burners. **(R 336.1205(1)(a) & (b))**

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. SVPRMOBSWEST	44	113	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBCOBSWEST (BC Observation Zone)	36	113	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVCCOBSWEST (CC Observation Zone)	40	113	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVBTHCONCWEST	68	113	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVRTOWEST	58	113	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVHWG1	16	86	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVHWG2	16	86	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVHWG3	16	86	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVHWG4*	16	45	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVHWG5*	16	45	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVHWG6*	16	45	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVHWG7	16	55	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVHWG8	16	55	R 336.1225, 40 CFR 52.21(c) & (d)

*This stack exhausts horizontally

IX. OTHER REQUIREMENT(S)

1. Within 30 days of installation, the permittee shall label all natural gas equipment with its respective EU and/or FG name in a manner acceptable to the AQD District Supervisor. **(R 336.1205)**

Footnotes:

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

FGNEWNGEAST FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

All natural new gas-fired equipment associated with the refurbishment of east paint shop portion of the Warren Truck Assembly Plant, except the new trim boiler, including hot water generators, air supply houses, cure ovens, the carbon concentrator, and the RTO.

Emission Unit: EUECOATEAST, EU-COLOR-ONE, EUDSBCHWG, EUDSSBHWG, EUDSCCHWG, EUNEWNGPSEAST

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all equipment. The east concentrator and east RTO for VOC control of spray booths and curing ovens in EUECOATEAST and EU-COLOR-ONE. Dry filter particulate controls on direct-fired natural gas equipment.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality natural gas in FGNEWNGEAST. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNEWNGEAST unless Low NOx burners are installed, maintained, and operated in a satisfactory manner. (R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))
2. The permittee shall not operate the air handling housing in the Basecoat and Clearcoat portions of EU-COLOR-ONE (equal to 34.5 MMBTU/hr) and EUNEWNGPSEAST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter control system includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. (R 336.1205(1)(a) & (b), R 336.1331, 40 CFR 52.21(c) & (d))
3. All air supply houses, air handling units, and E-coat, primer, topcoat, and sealer curing oven(s) in FGNEWNGEAST shall be direct-fired units. (R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall 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. (R 336.2908)

2. Based upon the records of the amount of natural gas burned and the U.S. EPA AP-42 emission factor for VOCs from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total VOC emissions for FGNEWNGEAST. Upon agreement with the AQD District Supervisor alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.2908)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. Within 60 days of start-up, the permittee shall provide information acceptable to the AQD District Supervisor demonstrating the new Hot Water Generators (HWG), the new air supply houses, and the new space heaters are equipped with Low NOx burners. **(R 336.1205(1)(a) & (b))**

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. SVBC1OBEAST1	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBC1OBEAST2	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVBC1OBEAST3	41	106	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVCC1OBEAST1	34	106	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVCC1OBEAST2	33	106	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVBTHCONCEAST	60	106	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVRTOEAST	60	114	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVDS1HWG	21.6	84.7	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. Within 30 days of installation, the permittee shall label all natural gas equipment with its respective EU and/or FG name in a manner acceptable to the AQD District Supervisor. **(R 336.1205)**

Footnotes:

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

FGTANKS FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.

Emission Unit: EU-UNLEADEDGAS1, EUMETANK, EUDIESELTANK1, EUANTIFREEZETANK, EUBRAKEFLUIDTANK, EUAUTOTRANS, EUDIESELEXTANK, EUGASTANK2, EUDIESELTANK2, EUPURSOLVTANK, EUDIESELTANK3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe. **(R 336.1703(1))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of 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. **(R 336.1225, R 336.1702)**

2. The permittee shall keep a record of the following for each storage vessel:
 - a) The identification (name, tank #, etc).
 - b) Location within the plant.
 - c) The capacity of the vessel.
 - d) The date of installation/modification.
 - e) The type of material contained in the vessel.
 - f) The true vapor pressure of the material contained in the vessel at actual storage conditions.
 - g) The applicable requirements.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1703, 40 CFR 60 Subparts K, Ka, Kb)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. Any new gasoline tank (placed into operation on or after 07/01/79) shall comply with the applicable requirements of Rule 703. **(R 336.1703)**
2. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards, 40 CFR Part 60 Subparts A, K, Ka, Kb based upon installation or modification date and applicability and designation of affected facility provisions in 40 CFR 60.110, 60.110a, 60.110b. Construction, reconstruction, or modification dates are as follows: **(40 CFR Part 60 Subparts A, K, Ka, Kb)**
 - a) Subpart K: after June 11, 1973 and prior to May 19, 1978;
 - b) Subpart Ka: after May 18, 1978 and prior to July 23, 1984;
 - c) Subpart Kb: after July 23, 1984.

Footnotes:

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

FG-OLDMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

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

Emission Unit: EUMETANK

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 Organic liquid, that verifies the storage tank is not required to be controlled under this subpart. The documentation shall be kept up-to-date and must be in a format acceptable to AQD. **(63.2343(b)(3))**

VII. REPORTING

1. The permittee shall submit the following information in either the Notification of Compliance Status, according to the schedule in Table 12 to this subpart, or in your first Compliance report according to the schedule in 63.2386(b), whichever occurs first. **(63.2343(b)(1))**
 - a) Company name and address.
 - b) A statement by a responsible official, including the official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - c) Date of report and beginning and ending dates of the reporting period.
 - d) A list of all storage tanks greater than 5,000 gallons that are part of the affected source but not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.
2. The permittee shall submit subsequent compliance reports according to the schedule in 63.2386(b) or in conjunction with the reporting requirements in this permit whenever any of the following events occur as applicable: **(63.2343(b)(2))**
 - a) Any storage tank became subject to control under this subpart EEEE.
 - b) Any storage tank greater than 5,000 gallons became part of the affected source, but is not subject to any emission limitations, operating limits, or work practice standards of this subpart.

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

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

Footnotes:

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

**FGNGEMENG
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Emergency engines subject to 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines greater than 500 HP constructed on or after January 1, 2009.

Emission Unit: EUNGGEN1

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	2.0 g/HP-hr Or 160 ppmvd at 15% O ₂	Hourly	Each EU in FGNGEMENG	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
2. CO	4.0 g/HP-hr OR 540 ppmvd at 15% O ₂	Hourly	Each EU in FGNGEMENG	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
3. VOC	0.50 g/HP-hr ^{C,D}	Hourly	Each EU in FGNGEMENG	SC V.1, SC V.2, SC VI.4	R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 60.4233(e)

^C For compliance purposes, this limit includes formaldehyde for Nonattainment New Source Review, but does not include formaldehyde for the NSPS.
^D This emission limit has subsumed the emission limit required in 40 CFR 60 Subpart JJJJ, Table 1.

II. MATERIAL LIMIT(S)

- The permittee shall burn only pipeline quality natural gas in FGNGEMENG. **(R 336.1205(1)(a), R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), R 336.2908, 40 CFR 60.4233)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate any EU in FGNGEMENG for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the 100 hours as described in SC III.2. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**
- The permittee may operate any EU in FGNGEMENG for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4243(d)(2))**

3. Each EU in FGNGEMENG may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as described in SC III.2. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d)(3))**
4. The permittee shall operate and maintain each EU in FGNGEMENG such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**
5. If any EU in FGNGEMENG is operated as a certified engine, according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for each respective engine:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Meet the requirements as specified in 40 CFR 1068 Subparts A through D, as applicable, including labeling and maintaining certified engines according to the manufacturer's recommendations.
 - c) Only change those engine settings that are permitted by the manufacturer.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and be subject to SC III.6. **(40 CFR 60.4243(b)(1))**

6. If any EU in FGNGEMENG is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee shall keep a maintenance plan for each respective EU and shall, to the extent practicable, maintain, and operate each respective EU in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGNGEMENG with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4237(a))**
2. The nameplate capacity of each EU in FGNGEMENG shall not exceed 574 kW (770 HP), as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4230)**
3. The emergency engines in FGNGEMENG shall be 4-stroke rich-burn engines.¹ **(R 336.1225)**

V. TESTING/SAMPLING

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

1. If any EU in FGNGEMENG is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission limits in SC I.1, I.2, and I.3 within 60 days after achieving the maximum production rate at which the respective EU will be operated, but not later than 180 days after initial startup of the respective EU, or within one year after the respective EU is no longer operated as a certified engine.
 - b) The performance tests shall consist of three separate test runs of at least 1 hour, for each performance test required in 40 CFR 60.4244 and Table 2 to Subpart JJJJ of Part 60.
 - c) Subsequent performance testing shall be completed every 8,760 hours of engine operation or every three years, whichever comes first, to demonstrate compliance with the applicable emission limits.

If a performance test is required, no less than 30 days prior to testing, a complete test plan shall be submitted to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205(1)(a), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21 (c) & (d), 40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 40 CFR Part 60 Subpart JJJJ)**

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify VOC mass emissions from representative EUs in FGNGEMENG by testing at owner's expense, in accordance with Department requirements. Alternatively, one EU may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Testing shall be performed using approved EPA Method(s) listed in

Pollutant	Test Method Reference
VOC	40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A

Alternate method(s), or a modification to the approved EPA Method(s), may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, the following records for each EU in FGNGEMENG:
 - a) If certified: The permittee shall keep records of the documentation from the manufacturer that the respective EU is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
 - b) If non-certified: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e), 40 CFR 60.4243, 40 CFR 60.4245(a))**

2. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGNGEMENG:
 - a) If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that the respective EU has been maintained according to them, as specified in SC III.5.
 - b) If non-certified: The permittee shall keep records of a maintenance plan, as required by SC III.6 and records of conducted maintenance.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4243, 40 CFR 60.4245(a), 40 CFR Part 60 Subpart JJJJ)**

3. The permittee shall monitor and record the total hours of operation for each EU in FGNGEMENG. The permittee shall document how many hours are spent for emergency operation of each EU in FGNGEMENG including what classified the operation as emergency. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4243, 40 CFR 60.4245(b))**
4. The permittee shall keep records of notifications submitted for the completion of construction and start-up of each EU in FGNGEMENG. **(40 CFR 60.4245(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each EU in FGNGEMENG. **(R 336.1216(1)(a)(v), R 336.1201(7)(a))**
2. The permittee shall submit a notification specifying whether each EU in FGNGEMENG will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of each EU in FGNGEMENG and within 30 days of switching the manner of operation. **(40 CFR Part 60 Subpart JJJJ)**
3. If any EU in FGNGEMENG has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231, the permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following information:
 - a) The date construction of the respective EU commenced.
 - b) Name and address of the owner or operator.
 - c) The address of the affected source.
 - d) The respective EU information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement.
 - e) The respective EU emission control equipment.
 - f) Fuel used in the respective EU.

The notification must be postmarked no later than 30 days after construction commenced for the respective EU. **(40 CFR 60.7(a)(1), 40 CFR 60.4245(c))**

4. The permittee shall submit an initial notification as required in 40 CFR 63.6645(f) for each EU in FGNGEMENG. The notification must include the information in 40 CFR 63.9(b)(2)(i)-(v):
 - a) The name and address of the owner or operator.
 - b) The address (i.e., physical location) of the affected source.
 - c) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date.
 - d) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted.
 - e) A statement of whether the affected source is a major source or an area source.

The notification must also include a statement that each EU in FGNGEMENG has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). **(40 CFR 63.9(b)(2)(i)-(v), 40 CFR 63.6590(b)(1), 40 CFR 63.6645(f))**

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. SVNGGEN1	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart A and Subpart JJJJ, as they apply to FGNGEMENG. **(40 CFR Part 60 Subparts A & JJJJ)**
2. The permittee shall comply with the provisions of the federal National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as specified in 40 CFR Part 63 Subpart A and Subpart ZZZZ, as they apply to FGNGEMENG. **(40 CFR Part 63 Subparts A & ZZZZ)**

Footnotes:

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

**FGPSWEST/NEWEAST
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

All process equipment associated with the installation of the west paint shop and modernization of the east paint shop, body shop, and final assembly.

Emission Unit ID: EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSEALERS, EUSPOTREPAIREAST, EUFINALREPAIR, EUFLUIDFILL, EU-COLOR-ONE, EU-REPROCESS, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUDSBCHWG, EUDSSBHWG, EUDSSCHWG, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUNGGEN1, EU-TRIMBOILER

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

1. Within seven days of starting production of saleable vehicles in the west paint shop portion of FGPSWEST/NEWEAST, the permittee shall notify the AQD District Supervisor, in writing, as to the date of the start of saleable vehicle production. **(R 336.1205)**
2. The permittee shall provide written notification of construction and operation to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. The permittee shall submit this notification to the AQD District Supervisor within the timeframes specified in 40 CFR 60.7. **(40 CFR 60.7)**

3. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of FGPSWEST/NEWEAST. **(R 336.1216(1)(a)(v), R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

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

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall 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(1). 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. **(R 336.1225(4))**
2. The following emission limits in EU ECOATEAST, EU-COLOR-ONE, and EUPURGE CLEAN EAST shall become applicable upon startup of any emission unit associated with the Warren Truck West Paint Shop (including but not limited to: EUPRETREATWEST, EU COATWEST, sealers applied in the West Paint Shop portion of EU SEALERS, EUPRIMERWEST, EUTOPCOATWEST, EUPURGE CLEAN WEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUNEWNGASSEMBLY, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8). **(R 336.2908)**
 - a) SC I.7 for EU ECOATEAST.
 - b) SC I.12 for EU-COLOR-ONE.
 - c) SC I.5 for EUPURGE CLEAN EAST.

Footnotes:

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

FGFACILITY CONDITIONS

DESCRIPTION: The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

The west concentrator and west RTO used for control of VOC emissions from EUPRIMERWEST spray booth and flash-off areas, EUTOPCOATWEST spray booth and flash-off areas, and solvent borne purge materials from west primer and west clearcoat booths not captured in the purge collection system. The west RTO only used for control of VOC emissions from the EUECOATWEST tank and curing oven, EUPRIMERWEST curing oven, and EUTOPCOATWEST curing oven. The east concentrator and east RTO used for control of VOC emissions from EU-COLOR-ONE spray booth and flash-off areas. The east RTO only used for control of VOC emissions from EUECOATWEST tank and curing oven. A thermal oxidizer used for control of VOC emissions from the EU-COLOR-ONE cure oven. A thermal oxidizer used for control of VOC emissions from the cure oven of EU-REPROCESS. Waterwash particulate control systems on all paint spray booths and observation zones. Dry filter particulate control systems on all sanding and repair booths and all flash-off areas. Dry filter particulate control systems on all air supply housing (ASH), air handling units (AHU), space heating units, and all curing ovens in the E-coat, primer, and topcoat operations.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NOx	150.65 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.2, SC VI.2	R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d)
2. CO	161.7 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205(1)(a) & (b), R 336.2802(4)(d)
3. PM	29.96 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.3	R 336.1205(1)(a) & (b), R 336.2802(4)(d)
4. PM10	20.55 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.3	R 336.1205(1)(a) & (b), R 336.2802(4)(d)
5. PM2.5	18.05 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.3	R 336.1205(1)(a) & (b), R 336.2802(4)(d)

II. MATERIAL LIMIT(S)

1. The total combined natural gas usage for FGFACILITY shall not exceed 3,850.0 MMcf per year on a 12-month rolling time period basis as determined at the end of each calendar month. **(R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates of representative units, which includes but is not limited to, the observation zones, the concentrators, and the thermal oxidizer portions of EU-COLOR-ONE and EU-REPROCESS, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify NOx emission rates from representative natural gas combustion units, the concentrator, and RTO portions of FG FACILITY, as agreed to by the AQD District Supervisor, by testing at owner's expense, in accordance with Department requirements. One EU (or portion of an EU) may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Alternatively, the permittee may submit vendor guarantees for NOx emission rates from representative emission units in a manner acceptable to the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

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. **(R 336.1205(1))**

2. Based upon the records of the amount of natural gas burned and the tested emission factors for NO_x and CO from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total NO_x and CO emission rates for FGFACILITY, as required by SC I.1 and SC I.2. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d))**
3. Based upon the records of the amount of natural gas burned and the tested emission factors for PM, PM₁₀, and PM_{2.5} from the combustion of natural gas and representative units, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total PM, PM₁₀, and PM_{2.5} emission rates for FGFACILITY, as required by SC I.3 and SC I.4. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.2802(4)(d))**
4. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million cubic feet for FGFACILITY. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d), 40 CFR 52.21(c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

APPENDIX 7.

Appendix 7. Emission Calculations

The permittee shall use the following calculations methods as guidance in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in EU-Blackout Booth, EU-MechWasher, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EOECOATEAST, EUSEALERS, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUFINALREPAIR, EUGLASSBOND, EUFLUIDFILL, FGTOPCOATEAST, and FGSPOTPRIMEWEST. These calculations are to be used to estimate the emission rate that are utilized in the compliance demonstrations; however, not all calculated values have an underlying applicable requirement (e.g., monthly VOC emissions are utilized to calculate hourly VOC emissions though there is no limit on monthly VOC emissions). Material usage and VOC content are with water unless otherwise noted. Alternate calculation methods may be utilized where acceptable to the AQD. The AQD does not require a specific format to be used for submittal and currently used formats are considered acceptable unless notified in writing by the AQD.

VOC Emissions – Monthly Calculation (lbs./month) for Emission Units without Controls:

Pounds VOC/month = total material usage (gallons/month) * VOC content (lbs./gal)

VOC Emissions – Monthly Calculation (lbs./month) for Emission Units with Controls:

Pounds VOC/month = total material usage (gal/month) * VOC content (lbs./gal) * [(1- capture eff.) + capture eff. * (1- control eff.)]

VOC hourly Emission Calculation Averaged over a Month period (lbs./hr):

Pounds VOC/Hour = (Pounds VOC/month) / (monthly hours of operation)

VOC Annual Emission Calculation based on a 12-Month rolling period (Tons/yr.):

Tons VOC/Year = $\sum_{N=12} (\text{Pounds VOC/month})_n / (2000 \text{ pounds/ton})$

VOC Emission Rate Pounds of VOC per Gallon of Coating Minus Water (lbs./gal (minus water)):

The calculation procedure described in special conditions for each emission unit and R 336.2041.

VOC Emission Rate Pounds per gallon Applied Solids Calculation (lbs./gal applied solids):

The calculation procedure described in EPA Protocol 453/R-08-002.

APPENDIX B

Marked-Up Copy of Current ROP

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

EFFECTIVE DATE: December 6, 2016

ISSUED TO

FCA US LLC, Warren Truck Assembly Plant

State Registration Number (SRN): B2767

LOCATED AT

21500 Mound Road, Warren, Michigan 48091-4840

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B2767-2016

Expiration Date: December 6, 2021

Administratively Complete ROP Renewal Application
Due Between June 6, 2020 and June 6, 2021

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

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-B2767-2016

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

Michigan Department of Environmental Quality

Joyce Zhu, Southeast Michigan Acting District Supervisor

TABLE OF CONTENTS

AUTHORITY AND ENFORCEABILITY	4
A. GENERAL CONDITIONS	5
Permit Enforceability	5
General Provisions	5
Equipment & Design	6
Emission Limits	6
Testing/Sampling	6
Monitoring/Recordkeeping	7
Certification & Reporting	7
Permit Shield	8
Revisions	9
Reopenings	9
Renewals	10
Stratospheric Ozone Protection	10
Risk Management Plan	10
Emission Trading	10
Permit To Install (PTI)	11
B. SOURCE-WIDE CONDITIONS	12
C. EMISSION UNIT CONDITIONS	13
EMISSION UNIT SUMMARY TABLE	13
EU-MECH-WASHER	2046
EU-UNIPRIME	4418
EU-SOLVENT-WIPE	5523
EU-SEALERS&ADHESIVE	6325
EU-BLACKOUT-BOOTH	6727
EU-TUTONE	7030
EU-FLUID-FILL	7636
EU-FINAL-REPAIR	7938
EU-SPOT-REPAIR-DECK	8341
D. FLEXIBLE GROUP CONDITIONS	8844
FLEXIBLE GROUP SUMMARY TABLE	8844
FG-TOPCOAT	9347
FG-TEMPBOILERS	12155
FG-BOILERS	12357
FG-GASOLINE-TANKS	12760
FG-RULE-331	13162
FG-PM-MISC	13364
FG-AUTOMACT	13566
FG-OLDMACT	14372
FG-BOILER-MACT5D	14574
FG-CI-RICE-MACT4Z<500HP	17178
FG-CI-RICE-MACT4Z>500HP	17481
FG-CI-RICE-NSPS4I<500	17683
FG-COLD-CLEANERS	18186
FG-RULE-290	18489
FG-RULE-287(c)	19092
E. NON-APPLICABLE REQUIREMENTS	19794
APPENDICES	19895
Appendix 1. Acronyms and Abbreviations	19895

Appendix 2. Schedule of Compliance	<u>19996</u>
Appendix 3. Monitoring Requirements	<u>19996</u>
Appendix 4. Recordkeeping	<u>19996</u>
Appendix 5. Testing Procedures	<u>19996</u>
Appendix 6. Permits to Install	<u>19997</u>
Appendix 7. Emission Calculations	<u>20097</u>
Appendix 8. Reporting	<u>20198</u>

AUTHORITY AND ENFORCEABILITY

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

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

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

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

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

A. GENERAL CONDITIONS

Permit Enforceability

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

General Provisions

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

7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**
8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

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

Emission Limits

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

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

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

Testing/Sampling

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

Monitoring/Recordkeeping

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

Certification & Reporting

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

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

Permit Shield

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

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

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

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

Revisions

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

Reopenings

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

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(8))**

Stratospheric Ozone Protection

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

Risk Management Plan

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

Emission Trading

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

Permit To Install (PTI)

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

Footnotes:

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

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

B. SOURCE-WIDE CONDITIONS

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

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

C. EMISSION UNIT CONDITIONS

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

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

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-MECH-WASHER	Mechanical body washer in "Body-in-White" is for cleaning vehicle bodies with a cleaner and a rust-inhibitor.	07/31/1984	NA
EU-UNIPRIME EUECOATEAST	<p>Uniprime is a cathodic electrodeposition primer system to apply primer to vehicle bodies with an associated curing oven. Uniprime system is immersion (dip) e-coat system with DC voltage, where vehicle bodies are grounded and coating solids are positively charged. One regenerative thermal oxidizer (RTO) for curing oven emissions.</p> <p><u>Formerly EU-UNIPRIME. An electro-deposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, and a cooling tunnel. The curing oven is currently controlled by an existing RTO, which will be replaced by the new east RTO, which will control both the tank and curing oven portions of EUECOATEAST.</u></p>	07/31/1984 <u>Date of PTI</u>	FG-AUTOMACT FGCONTROLS , FGAUTOMACT , FGRTOEAST , FGNEWNGEAST , FGPSWEST/NEWEAST
EUPWDRPRMEAST	A powder anti-chip coating application process in the east paint shop which is electrostatically applied. The spray booth also includes the application of a colored powder basecoat for tutone applications. The powder spray application is controlled by a particulate filtration system which is vented inside the plant.	01/01/1996, <u>Date of PTI</u>	FGCONTROLS , FGAUTOMACT , FGPSWEST/NEWEAST
EU-SOLVENT-WIPE EUPURGECEANEAST	<p>Emissions from solvent wipes and body cleaners throughout the plant.</p> <p><u>Formerly EU-SOLVENT-WIPE. Emissions from purge solvent, solvent wipes, and body wipe cleaners throughout the body shop, east paint shop, and final assembly portion of the plant. After installation of the east concentrator and east RTO, control VOC emissions from the solvent based purge materials used within the basecoat and clearcoat booths are controlled except when collected in the purge collection system</u></p>	07/31/1984 <u>Date of PTI</u>	FG-AUTOMACT FGCONTROLS , FGAUTOMACT , FGPSWEST/NEWEAST

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
<u>EU-SEALERS&ADHESIVE</u> <u>EUSEALERS</u>	Application of sealers and adhesives and associated gelling oven. <u>Formerly EU-SEALERS&ADHESIVES:</u> <u>Various manual and robotic sealer and adhesive application stations/booths. Sealers and adhesives are applied at various decks in both west and east paint shops (some of which are cured in the sealer oven), the body shop, and the final assembly areas of the facility.</u>	07/31/1984 <u>Date of PTI</u>	<u>FG-AUTOMACT</u> <u>FGAUTOMACT,</u> <u>FGPSWEST/NEWEAST</u>
<u>EU-BLACKOUT-BOOTH</u>	Spray booth for applying blackout paint to vehicle bodies. The booth is on long term idle.	07/31/1984	<u>FG-AUTOMACT</u>
<u>EU-TUTONE</u> <u>EU-TUTONE</u>	The Tutone booth for applying topcoat on Tutoned vehicle bodies and associated curing oven. One down-draft waterwash system for paint overspray particulate control and one thermal oxidizer for VOC from the bake oven. <u>The Tutone booth for applying topcoat on Tutoned vehicle bodies and associated curing oven. One down-draft waterwash system for paint overspray particulate control and one thermal oxidizer for VOC from the bake oven.</u>	06/17/1992 06/17/1992 <u>Date of PTI</u>	<u>FG-AUTOMACT</u> <u>FGAUTOMACT,</u> <u>FGPSWEST/NEWEAST</u>
<u>EU-FLUID-FILL</u> <u>EUFLUIDFILL</u>	Stations for filling fuel tanks (gasoline) and windshield washer solution, brake, power steering etc. reservoirs. Onboard Re-fueling Vapor Recovery systems for vehicles. <u>Formerly EU-FLUID-FILL: Each vehicle will be filled with various fluids such as gasoline, antifreeze, transmission fluid, power steering fluid, and windshield washer fluid.</u>	07/31/1984 <u>Date of PTI</u>	<u>NA</u> <u>FGPSWEST/NEWEAST</u>
<u>EU-FINAL-REPAIR</u> (Low-bake spovens) <u>EUFINALREPAIR</u>	Final repair system, for low-bake, includes two spot repair stations with associated spovens (one spoven per booth) and sanding booths in Repair Dept. 9190 of Main Building. Prep booths or sanding booths are equipped with side-draft dry filters. The spovens (spot ovens) are equipped with IR Heat and are located inside the downdraft spray booths. The booths (2) are equipped with downdraft filters like collision shop booths. <u>Formerly EU-FINAL-REPAIR: Final repair operations including a coating area. Prep booths or sanding booths are equipped with side-draft dry filter particulate control systems. Spray booths are equipped with downdraft dry filter particulate control system.</u>	07/22/1996 <u>Date of PTI</u>	<u>FG-AUTOMACT</u> <u>FGCONTROLS,</u> <u>FGPSWEST/NEWEAST,</u> <u>FGAUTOMACT</u>

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-SPOT-REPAIR-DECK (1-12 stations) EU-SPOT-REPAIR DECK (1-12 stations)	1 through 12 spot repair painting stations with portable hose emissions capture system and associated IR (infra-red) curing ovens. The emissions are ducted to a common control system consisting of series of dry filters and carbon adsorption. Carbon is monitored for breakthrough using color change at sight glass. Dry filter system and carbon adsorption system. 1 through 12 spot repair painting stations with portable hose emissions capture system and associated IR (infra-red) curing ovens. The emissions are ducted to a common control system consisting of series of dry filters and carbon adsorption. Carbon is monitored for breakthrough using color change at sight glass. Dry filter system and carbon adsorption system.	07/22/1996 07/22/1996	FG-AUTOMACT FGAUTOMACT
EUSPOTREPAIREAST	Spot repair process in the east paint shop, prior to the topcoat application.	TBD	FGAUTOMACT, FGCONTROLS, FGPSWEST/NEWEAST
EU-COLOR-ONE	Color1 line (one of two identical top coat lines) consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Downdraft Water Wash System and Thermal Oxidizer for particulate control on the spray booths and Thermal Oxidizer for VOC control on the bake oven. After installation of the control equipment, the spray booth portions will be controlled by the east concentrator and east RTO.	07/31/1984 Date of PTI	FG-AUTOMACT FG-TOPCOAT FGAUTOMACT, FGTOPCOATEAST, FGCONTROLS, FGRTOEAST, FGNEWNGEAST, FGPSWEST/NEWEAST
EU-COLOR-TWO	Color2 line (one of two identical top coat lines) consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Downdraft Water Wash System and Thermal Oxidizer for bake oven.	07/31/1984	FG-AUTOMACT FG-TOPCOAT FGTOPCOATEAST
EU-REPROCESS (High-bake) EU-REPROCESS	Reproces is a high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and an oven for curing. Reprocess is high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. Water Wash System for particulate control on the spray booths and Thermal Oxidizer for VOC control of the bake oven.	07/31/1984 07/31/1984	FG-AUTOMACT FG-TOPCOAT FGCONTROLS FGTOPCOATEAST FG-AUTOMACT FG-TOPCOAT FGCONTROLS, FGTOPCOATEAST
EUPRETREATWEST	A series of dip tanks and rinses for the surface treatment of automobiles.	TBD	FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST
EU-ECOATWEST	An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a primer prep booth (light sanding) for repairs of surface blemishes. Emissions from the E-coat tanks are directed to the curing oven and then to the new west RTO for control.	TBD	FGCONTROLS, FGAUTOMACT, FGRTOWEST, FGNGWEST, FGPSWEST/NEWEAST

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUPRIMERWEST	A prep tunnel, two (2) automatic primer booths, one for solvent borne main primer and one for solvent borne tutone coloring primer, a primer observation zone, an ambient flash-off area, a natural gas-fired primer curing oven, and a cooling tunnel, followed by two booths (color prep booth and heavy reprocess sand) for repair of surface blemishes.	TBD	FGCONTROLS , FGAUTOMACT , FGRTOWEST , FGNGWEST , FGPSWEST/NEWEAST
EUTOPCOATWEST	An automatic topcoat spray application process consisting of a water borne basecoat coating booth, a basecoat observation zone, a basecoat ambient flash-off area, a basecoat heated flash-off area, a solvent-borne clearcoat coating booth, a clearcoat observation zone, a Clearcoat ambient flash-off area, and a natural gas-fired curing oven. Approximately 85% of the air from the spray zones is recirculated back into the process and 15% is exhausted to the concentrator and RTO.	TBD	FGCONTROLS , FGAUTOMACT , FGRTOWEST , FGNGWEST , FGPSWEST/NEWEAST
EUPURGE CLEANWEST	Various cleaning solvents and purge solvents used in the west paint shop. VOC emissions from the solvent based purge materials used within EUPRIMERWEST and the clearcoat booth portion of EUTOPCOATWEST are controlled by the west concentrator and west RTO except when collected in the purge collection system.	TBD	FGCONTROLS , FGAUTOMACT , FGRTOWEST , FGPSWEST/NEWEAST
EUBODYWIPEWEST	Body wipes used throughout the west paint shop.	TBD	FGAUTOMACT , FGPSWEST/NEWEAST
EUSPOTREPAIRWEST	Rapid reprocess repair booth after the west paint shop topcoat process.	TBD	FGCONTROLS , FGAUTOMACT , FGPSWEST/NEWEAST
EUSPOTPRIMEWEST1	A spot prime repair process in the west paint shop. This process is after the E-coat process and prior to primer application.	TBD	FGAUTOMACT , FGCONTROLS , FGSPOTPRIMEWEST , FGPSWEST/NEWEAST
EUSPOTPRIMEWEST2	A spot prime repair process in the west Paint shop. This process is after primer application and prior to topcoat application.	TBD	FGAUTOMACT , FGCONTROLS , FGSPOTPRIMEWEST , FGPSWEST/NEWEAST
EU-TEMPBOILER1	25 million BTU per hour, natural gas only fired trailer-mounted temporary boiler.	03/19/2009	FG-TEMPBOILERS FG-BOILER-MACT5D
EU-TEMPBOILER2	29 million BTU per hour, natural gas only fired trailer-mounted temporary boiler.	03/19/2009	FG-TEMPBOILERS FG-BOILER-MACT5D
EU-BOILER3	152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.	07/11/1998	FG-BOILERS FG-BOILER-MACT5D
EU-BOILER4	106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98) natural gas only boiler equipped with low NOx burners.	07/11/1998	FG-BOILERS FG-BOILER-MACT5D
EU-BOILER5	152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.	09/01/1996	FG-BOILERS FG-BOILER-MACT5D

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-BOILER6	192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84) natural gas only boiler equipped with oxygen trim system but not low NOx burners.	10/29/1984	FG-BOILERS FG-BOILER-MACT5D
<u>EU-TRIMBOILER</u>	<u>A 37 million BTU heat input per hour (Cleaver Brooks) natural gas only boiler, equipped with low NOx burners.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGPSWEST/NEWEAST</u>
<u>EUHWG1</u>	<u>Hot water generator with a maximum heat Input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG2</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG3</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG4</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG5</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG6</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG7</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG8</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG9</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUHWG10</u>	<u>Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUDSBCHWG</u>	<u>Hot water generator with a maximum heat input rating of 54 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUDSSBHWG</u>	<u>Hot water generator with a maximum heat input rating of 54 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUDSCCHWG</u>	<u>Hot water generator with a maximum heat input rating of 54 MMBtu/hr. This unit is equipped with a low NOx burner.</u>	<u>TBD</u>	<u>FGBOILERMACTHWG, FGNGWEST, FGPSWEST/NEWEAST</u>
<u>EUNEWNGASSEMBLY</u>	<u>Natural gas-fired air supply housing and space heating (15.951.0 MMBtu/hr capacity) in the assembly portion of the facility added as part of the west paint shop project.</u>	<u>TBD</u>	<u>FGNGWEST, FGCONTROLS, FGPSWEST/NEWEAST</u>
<u>EUNEWNGPSEAST</u>	<u>Natural gas-fired air supply housing (21.08.3 MMBtu/hr capacity) installed in the east paint shop as part of the west paint shop project.</u>	<u>TBD</u>	<u>FGNEWNGEAST, FGCONTROLS, FGPSWEST/NEWEAST</u>
<u>EUDIESELTANK1</u>	<u>8,000-gallon storage tank for the storage of diesel fuel</u>	<u>01/01/2014</u>	<u>FGTANKS</u>

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUANTIFREEZETANK	10,000-gallon storage tank for the storage of antifreeze	01/01/2014	FGTANKS
EUBRAKEFLUIDTANK	8,000-gallon storage tank for the storage of brake fluid	01/01/2014	FGTANKS
EUAUTOTRANS	8,000-gallon storage tank for the storage of automatic transmission fluid	01/01/2014	FGTANKS
EUDIESELEXTANK	5,000-gallon storage tank for the storage of diesel exhaust fluid	01/01/2014	FGTANKS
EUGASTANK2	1,000-gallon storage tank for the storage of gasoline	01/01/2014	FGTANKS
EUDIESELTANK2	1,000-gallon storage tank for the storage of diesel fuel	01/01/2014	FGTANKS
EUPURSOLVTANK	8,000-gallon storage tank for the storage of purge solvent	01/01/2014	FGTANKS
EUDIESELTANK3	1,000-gallon storage tank for the storage of diesel fuel	01/01/2014	FGTANKS
EUNGEMENG1	A 770An 850-HP natural gas-fired emergency engine.	TBD	FGNGEMENG, FGPSWEST/NEWEAST
EUNGEMENG2	A 770 HP natural gas fired emergency engine.	TBD	FGNGEMENG, FGPSWEST/NEWEAST
EUNGEMENG3	A 770 HP natural gas fired emergency engine.	TBD	FGNGEMENG, FGPSWEST/NEWEAST
EU-UNLEADEDGAS1	TK1 25,000-gallon gasoline storage tank – above-ground storage tank with spill containment.	03/19/2013	FG-GASOLINE-TANKS FGTANKS
EUMETANK	8,000-gallon bulk storage tank for the storage of windshield washer fluid	01/01/2014	FGTANKS
EU-CARPENTERSHOP	Wood saws, lathes, etc. Carpenter shop baghouse.	07/31/1984	FG-RULE-331
EU-COLOR-ONE-SAND	Miscellaneous particulate matter source with associated exhaust filters.	07/31/1984	FG-PM-MISC
EU-POLISH-DECK	Miscellaneous particulate matter source with associated exhaust filters.	07/31/1984	FG-PM-MISC
EU-REPROCESS-SAND EU-REPROCESS-SAND	Miscellaneous particulate matter source with associated exhaust filters. Miscellaneous particulate matter source with associated exhaust filters.	07/31/1984 07/31/1984	FG-PM-MISC FG-PM-MISC
EU-REPRO-POLISH	Miscellaneous particulate matter source with associated exhaust filters.	07/31/1984	FG-PM-MISC
EU-UNIPRIME-SAND	Miscellaneous particulate matter source with associated exhaust filters.	07/31/1984	FG-PM-MISC
EU-OLDMACT	The permittee shall maintain an up-to-date list of emissions units subject to FG-OLDMACT.	07/31/1984	FG-OLDMACT
EU-Eng-FPH1	Existing CI (Diesel) Engines located at a Major Source 266 HP < 500 HP, Emergency.	01/01/1985	FG-CI-RICE-MACT4Z<500HP
EU-ENG-SMB1	Existing CI Engines located at a Major Source > 500 HP, Emergency.	01/01/1985	FG-CI-RICE-MACT4Z>500HP
EU-ENG-SMB2	Existing CI Engines located at a Major Source > 500 HP, Emergency.	01/01/1985	FG-CI-RICE-MACT4Z>500HP

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-ENG-FPH2 Fire Pump emergency engine	This flexible group includes new emergency compression ignition (CI) natural gas fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP), but less than 500 (HP) and subject to 40 CFR 60, Subpart IIII.	01/01/2011	FG-CI-RICE- NSPS4I<500

EU-MECH-WASHER EMISSION UNIT CONDITIONS

DESCRIPTION

EU-MECH-WASHER: Mechanical body washer in "Body-in-White" is for cleaning vehicle bodies with a cleaner and a rust-inhibitor.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	21.5 ² [§] Pounds per hour	Hour	EU-MECH-WASHER	GC-13 SC-V.1 & VI.1	R 336.1201(3)
2. VOC	45.24 ² Tons per year	12-month rolling time period	EU-MECH-WASHER	SC-V.1 & VI.1	R 336.1201(3) R 336.2902 (formerly, R 336.1220(a))

[§]Based upon monthly values using methods acceptable to AQD.

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

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))

- The VOC content, water content and density of any cleaner and inhibitors material as used and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.2001, R 336.2003 & R 336.2004)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make

them available within 30 days following the end of each calendar month for which records are required to be kept. ~~(R 336.1213(3))~~

- a. ~~The plant production hours, monthly records.~~
- b. ~~The quantity of materials used, monthly records.~~
- c. ~~The material identification.~~
- d. ~~Material VOC content; in pounds per unit quantity.~~
- e. ~~Calculations showing the VOC emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.

See Appendix 7

VII. REPORTING

1. ~~Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
2. ~~Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))~~
3. ~~Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
4. ~~Quarterly reporting of VOC emissions and coating usage data (the usage data need not be submitted but shall be kept on file) within 30 days following the end of the quarter in which the data were collected.² (R 336.1201(3))~~

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EUPRETREATWEST EMISSION UNIT CONDITIONS

DESCRIPTION

A series of dip tanks and rinses for the surface treatment of automobiles.

Flexible Group ID: FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. No materials in EUPRETREATWEST shall contain any VOCs or HAPs that are emitted from the process.
(R 336.1702, R 336.2908)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component as used in EUPRETREATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1702, R 336.2908)

2. The permittee shall keep a record, acceptable to the AQD district supervisor, demonstrating that any VOC and/or HAP compounds contained in the EUPRETREATWEST materials will not be emitted at the representative operating conditions. (R 336.1225, R 336.1702, R 336.2908)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. <u>SVENTRYAIRSEAL</u>	<u>18</u>	<u>113</u>	<u>40 CFR 52.21(c) & (d)</u>
2. <u>SVSTAGE2B</u>	<u>26</u>	<u>113</u>	<u>40 CFR 52.21(c) & (d)</u>
3. <u>SVSTAGE5</u>	<u>30</u>	<u>75</u>	<u>40 CFR 52.21(c) & (d)</u>
4. <u>SVSTAGE9</u>	<u>20</u>	<u>113</u>	<u>40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUECOATWEST

EMISSION UNIT CONDITIONS

DESCRIPTION

An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a primer prep booth (light sanding) for repairs of surface blemishes. Emissions from the E-coat tanks are directed to the curing oven and then to the new west RTO for control.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

The west RTO for VOC control from the tank and oven. Dry filters for particulate control from the prep booth.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring / Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. VOC</u>	<u>0.04 lb/GACS</u>	<u>Monthly Average</u>	<u>EUECOATWEST</u>	<u>SC VI.5</u>	<u>R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM</u>
<u>2. VOC</u>	<u>1.1 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>EUECOATWEST</u>	<u>SC VI.5</u>	<u>R 336.1205, R 336.1702(a), R 336.2908</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the electrodeposition tank and curing oven portions of EUECOATWEST unless the west RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the RTO combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.1702, R 336.1910, R 336.2908)
2. The permittee shall not operate the prep booth portion of EUECOATWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EUACOATWEST tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EUACOATWEST tank shall be verified by testing using federal Reference Test Method 24. (R 336.2004, R 336.2040, R 336.2041, R 336.2908)
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the dip tank and oven portions of EUACOATWEST, by testing at owner's expense, in accordance with Department requirements and 40 CFR 51 Appendix M. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)
3. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the destruction efficiency of the west RTO in EUACOATWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
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 used in EUACOATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))
4. The permittee shall install, maintain, and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the west RTO in EUACOATWEST to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)

5. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUECOATWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
- a) The monthly usage rate of each material or coating (in gallons - with water).
 - b) For each coating or material:
 - i. The pounds of VOC per gallon as applied (with water).
 - ii. The solids volume fraction.
 - c) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - d) The calculated VOC emission rate in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

2. The primer prep booth shall not be directly discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

VIII. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUECOATWEST. (40 CFR Part 63, Subparts A and Subpart IIII)
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUECOATWEST. (40 CFR 60.390)

Footnotes:

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

EUPRIMERWEST EMISSION UNIT CONDITIONS

DESCRIPTION

A prep tunnel, two (2) automatic primer booths, one for solvent borne main primer and one for solvent borne tutone coloring primer, a primer observation zone, an ambient flash-off area, a natural gas-fired primer curing oven, and a cooling tunnel, followed by two booths (color prep booth and heavy reprocess sand) for repair of surface blemishes.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST.

FGPSWEST/NEWEAST POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the prep booth and reprocess heavy sand booth where the air is recirculated and not exhausted into the ambient air. Coating booth overspray is controlled by a waterwash particulate control system. A portion of the primer coating booth exhaust will be filtered and recirculated to the booth air make-up system. The primer coating booth and flash-off area emissions are exhausted through a bank of particulate filters prior to venting to the west concentrator and the west RTO. Oven emissions are exhausted through a bank of filters and then to the west RTO. Emissions from the observation zone are controlled by a particulate control system and exhausted to the ambient air.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring / Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. VOC</u>	<u>2.92 lb/GACS</u>	<u>Calendar Day Averaging</u>	<u>EUPRIMERWEST</u>	<u>SC VI.6</u>	<u>R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM</u>
<u>2. VOC</u>	<u>21.4 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>EUPRIMERWEST</u>	<u>SC VI.6</u>	<u>R 336.1205, R 336.1702, R 336.2908</u>
<u>3. PM</u>	<u>0.0029 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>EUPRIMERWEST (observation zone)</u>	<u>SC V.5</u>	<u>R336.1331</u>
<u>4. PM10</u>	<u>0.143 pph</u>	<u>Hourly</u>	<u>EUPRIMERWEST (observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)</u>
<u>5. PM2.5</u>	<u>0.143 pph</u>	<u>Hourly</u>	<u>EUPRIMERWEST (observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)</u>

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, or curing oven portions of EUPRIMERWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an

acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature established during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.1702, R 336.2908)

2. The permittee shall not operate the primer spray booth, flash-off area, and observation zone portions of EUPRIMERWEST unless the waterwash systems are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the spray booth, flash-off area, and curing oven portions of EUPRIMERWEST unless the pre-concentrator/oxidizer particulate control systems are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the primer prep booth, and heavy sand booth portions of EUPRIMERWEST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash and dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUPRIMERWEST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EUPRIMERWEST, by testing at owner's expense, in accordance with Department requirements, 40 CFR 51 Appendix M, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the concentrator and destruction efficiency of the RTO in EUPRIMERWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

4. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the overall transfer efficiency of EUPRIMERWEST, by testing at owner's expense, in accordance with Department requirements and the U.S. EPA "Protocol for

Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,” September 2008, EPA-453/R-08-002, as amended. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)

5. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from the observation zone portion of EUPRIMERWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
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 used in EUPRIMERWEST. The data may consist of Safety Data Sheets, manufacturer’s formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))
4. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the Air Quality Division. All temperature data shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R336.1910, 40 CFR 52.21, 40 CFR 60.390, 40 CFR 64.6(c)(1)(i & ii))
5. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the west concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPRIMERWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. (R 336.1702(a), R 336.1910, R 336.2908)
6. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUPRIMERWEST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled “Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations,” EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept

using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:

- a) The daily and monthly number of jobs produced.
- b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
- c) The monthly usage rate of each material (in gallons – with water).
- d) For each coating material:
 - i. The calculated monthly analytical VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation VOC content in pounds of VOC per gallon as applied.
 - iii. The calculated monthly formulation volume solids content as applied.
- e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
- f) The total gallons of solids deposited on a daily basis.
- g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
- h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVPRMOBSWEST</u>	<u>44</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVBTHCONCWEST</u>	<u>68</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>3. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

4. The exhaust gases from the prep booth and the reprocess heavy sand booth portions of EUPRIMERWEST shall not be directly discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUPRIMERWEST. (40 CFR Part 63, Subpart A and Subpart IIII)
- 2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUPRIMERWEST. (40 CFR 60.390)

Footnotes:

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

EUTOPCOATWEST EMISSION UNIT CONDITIONS

DESCRIPTION

An automatic topcoat spray application process consisting of a water borne basecoat coating booth, a basecoat observation zone, a basecoat ambient flash-off area, a basecoat heated flash-off area, a solvent borne clearcoat coating booth, a clearcoat observation zone, a clearcoat ambient flash-off area, and a natural gas-fired curing oven. Approximately 85% of the air from the spray zones is recirculated back into the process and 15% is exhausted to the concentrator.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGNGWEST,

FGPSWEST/NEWEAST POLLUTION CONTROL EQUIPMENT

Booth overspray will be controlled by a waterwash particulate control system. A portion of the basecoat and clearcoat exhaust will be filtered and recirculated to the booth air make up system. The coating booth and heated flash-off area emissions are exhausted through a bank of particulate filters prior to venting to the west concentrator and the west RTO. Oven emissions are exhausted through a bank of particulate filters and then to the RTO. Solvent-based robots (clearcoat) will capture and recover coatings and cleaning solvents in a purge collection system. Emissions from the observation and ambient flash-off zones are controlled by a particulate control system and exhausted to atmosphere.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period!</u> <u>Operating</u> <u>Scenario</u>	<u>Equipment</u>	<u>Testing !</u> <u>Monitoring</u> <u>Method</u>	<u>Underlying Applicable</u> <u>Requirements</u>
1. <u>VOC</u>	<u>3.53 lb/GACS</u>	<u>Calendar Day</u> <u>Averaging</u>	<u>EUTOPCOATWEST</u>	<u>SC VI.6</u>	<u>R 336.1205,</u> <u>R 336.1702(a),</u> <u>R 336.2908,</u> <u>40 CFR 60 Subpart MM</u>
2. <u>VOC</u>	<u>75.3 tpy</u>	<u>12-month rolling</u> <u>time period as</u> <u>determined at</u> <u>the end of each</u> <u>calendar month</u>	<u>EUTOPCOATWEST</u>	<u>SC VI.6</u>	<u>R 336.1205,</u> <u>R 336.1702(a),</u> <u>R 336.2908</u>
3. <u>PM</u>	<u>0.0029 lbs per</u> <u>1,000 lbs of</u> <u>exhaust gas^a</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(base coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1331</u>
4. <u>PM</u>	<u>0.0029 lbs per</u> <u>1,000 lbs of</u> <u>exhaust gas^a</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(clear coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1331</u>
5. <u>PM10</u>	<u>0.103 pph</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(base coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b),</u> <u>40 CFR 52.21 (c) & (d)</u>
6. <u>PM10</u>	<u>0.153 pph</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(clear coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b),</u> <u>40 CFR 52.21 (c) & (d)</u>
7. <u>PM2.5</u>	<u>0.103 pph</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(base coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b),</u> <u>40 CFR 52.21 (c) & (d)</u>
8. <u>PM2.5</u>	<u>0.153 pph</u>	<u>Hourly</u>	<u>EUTOPCOATWEST</u> <u>(clear coat</u> <u>observation zone)</u>	<u>SC V.5</u>	<u>R 336.1205(1)(a)&(1)(b),</u> <u>40 CFR 52.21 (c) & (d)</u>

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, or curing oven portions of EUTOPCOATWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature established during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.1702, R 336.2908)
2. The permittee shall not operate the spray booth, flash-off area, and observation zone portions of EUTOPCOATWEST unless the water wash system is installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the spray booth, flash-off areas, observation zone, and curing oven portions of EUTOPCOATWEST unless the particulate control systems prior to the west concentrator and west RTO are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash and dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied in EUTOPCOATWEST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)
2. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EUTOPCOATWEST, by testing at owner's expense, in accordance with Department requirements, 40 CFR 51 Appendix M, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)
3. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the concentrator and

destruction efficiency of the RTO in EUTOPCOATWEST by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

4. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the overall transfer efficiency VOC loading of EUTOPCOATWEST, by testing at owner's expense, in accordance with Department requirements and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA-453/R-08-002, as amended. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)

5. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from the observation zones, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)

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 used in EUTOPCOATWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))

4. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the Air Quality Division. All temperature data shall be kept on file for a period

of at least five years and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 60.390)

5. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the west concentrator desorption gas inlet temperature on a continuous basis, during operation of EUTOPCOATWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. (R 336.1702(a), R 336.1910, R 336.2908)
6. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUTOPCOATWEST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) The daily and monthly number of jobs produced.
 - b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c) The monthly usage rate of each material (in gallons – with water).
 - d) For each coating material:
 - i. The calculated monthly analytical VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation VOC content in pounds of VOC per gallon as applied.
 - iii. The calculated monthly formulation volume solids content as applied.
 - e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
 - f) The total gallons of solids deposited on a daily basis.
 - g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVBCOBSWEST (BC Observation Zone)</u>	<u>36</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVCCOBSWEST (CC Observation Zone)</u>	<u>40</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>4. SVBTHCONCWEST</u>	<u>68</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>5. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUTOPCOATWEST. (40 CFR Part 63, Subparts A and Subpart IIII)

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

Footnotes:

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

EUPURGE CLEANWEST EMISSION UNIT CONDITIONS

DESCRIPTION

Various cleaning solvents and purge solvents used in the west paint shop. VOC emissions from the solvent-based purge materials used within EUPRIMERWEST and the clearcoat booth portion of EUTOPCOATWEST are controlled by the west concentrator and west RTO except when collected in the purge collection system.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Solvent-Based robots (EUPRIMERWEST and the clearcoat portion of EUTOPCOATWEST) will capture and recover coatings and cleaning solvents in a purge collection system. Water borne basecoat purge is not controlled. Primer and clearcoat purge solvents not captured in the collection system will be controlled by the west concentrator and west RTO.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. VOC	69.3 tpy	12-month rolling time period as determined at the end of each calendar month	EUPURGE CLEANWES I	SC VI.5	R 336.1205, R 336.1702(a), R 336.2908

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not process solvent borne purge materials in the coating booth portions of EUPRIMER and the clearcoat coating booth portions of EUTOPCOATWEST unless the west concentrator and west RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the west concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the west RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.2908(3))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUPURGECLEANWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.2908)**
3. The permittee shall monitor and record the combustion chamber temperature in the west RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)**
4. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPURGECLEANWEST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. All records shall be kept on file and made available to the Department upon request. **(R 336.1702(a), R 336.1910, R 336.2908)**
5. The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUPURGECLEANWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and at a minimum, shall indicate the following:
 - a) For each material used:
 - i. A description of the material, its purpose and its VOC content in pounds per gallon.
 - ii. The total amount of purge and clean-up solvent used.
 - iii. The amount used in the automatic zones of EUPRIMERWEST and EUTOPCOATWEST, both in gallons.
 - iv. The amount in gallons reclaimed, where applicable.
 - b) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month. In performing these calculations, the actual tested control efficiency over EUPRIMERWEST and EUTOPCOATWEST, shall be applied to the materials used in the controlled automatic zones.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1702(a), R 336.2908)**

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVBTHCONCWEST</u>	<u>68</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUBODYWIPEWEST EMISSION UNIT CONDITIONS

DESCRIPTION

Body wipes used throughout the west paint shop.

Flexible Group ID: FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>VOC</u>	<u>17.1 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>EUBODYWIPEWEST</u>	<u>SC VI.3</u>	<u>R 336.1205, R 336.1702(a), R 336.2908</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1225, R 336.1702, R 336.2908)
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 used in EUBODYWIPEWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702, R 336.2908)
3. The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUBODYWIPEWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:

a) For each material used:

i. A description of the material, its purpose, and its VOC content in pounds per gallon.

ii. The total amount of body wipe solvent used.

iii. The amount in gallons reclaimed, where applicable.

b) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

. STACK/VENT RESTRICTION(S)

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

NA

VIII. OTHER REQUIREMENT(S)

NA

Footnotes:

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

EUSPOTREPAIRWEST EMISSION UNIT CONDITIONS

DESCRIPTION

Rapid reprocess repair booth after the west paint shop topcoat process.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls are exhausted to the atmosphere.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. VOC	4.8 lb/gal (minus water), as applied	Daily volume weighted average	EUSPOTREPAIRWEST	SC VI.4	R 336.1702(a), R336.2908
2. VOC	0.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUSPOTREPAIRWEST	SC VI.4	R 336.1702(a), R336.2908
3. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1331
4. PM10	0.026 pph	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1205(1)(a) & (b), 40 CFR 52.21 (c) & (d)
5. PM2.5	0.026 pph	Hourly	EUSPOTREPAIRWEST	SC V.2	R 336.1205(1)(a) & (b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate EUSPOTREPAIRWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

- The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District

Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative booth in EUSPOTREPAIRWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
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 used in EUSPOTREPAIRWEST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSPOTREPAIRWEST. The records shall be kept in a format acceptable to the AQD District Supervisor, and at a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) The VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.
 - e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

I. 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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. <u>SVRPDRPCS</u>	<u>56</u>	<u>75</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

VIII. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUSPOTREPAIRWEST. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

EU-UNIPRIME/EUECOATEAST EMISSION UNIT CONDITIONS

DESCRIPTION

EU-UNIPRIME: Uniprime is a cathodic electrodeposition primer system to apply primer to vehicle bodies with an associated curing oven. Uniprime system is an immersion (dip) e-coat system with DC voltage, where vehicle bodies are grounded and coating solids are positively charged. Both coating and water are recycled/reused using ultrafiltration (UF) membranes. Formerly EU-UNIPRIME. An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, and a cooling tunnel. The curing oven is currently controlled by an existing RTO, which will be replaced by the new east RTO, which will control both the tank and curing oven portions of EUECOATEAST.

Flexible Group ID: FG-AUTOMACT, FGCONTROLS, FGAUTOMACT, FGNEWNGEAST, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

One regenerative thermal oxidizer (RTO) for curing oven emissions (about 2008 one E-coat oven RTO replaced two thermal oxidizers). ~~An existing RTO for VOC control from the curing oven.~~ The east RTO will control VOC emissions from the tank and curing oven portions after installation.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	14.5 pph ^{a,c} 14.5² ^b Pounds per hour	Hour	EUECOATEAST (dip tank) EU-UNIPRIME (dip tank)	SC V.1, SC VI.4GC 13 V.1 & VI.2	R 336.2902 (formerly, R 336.1220) R 336.2902 (formerly, R 336.1220)
2. VOC	31.23 tpy ^c 31.23² ^b Tons per year	12-month rolling time period	EUECOATEAST (dip tank) EU-UNIPRIME (dip tank)	SC V.1, SC VI.4V.1 & VI.2	R 336.2902 (formerly, R 336.1220) R 336.2902 (formerly, R 336.1220)
3. VOC	8.2 pph ^{a,c} 8.2² ^b Pounds per hour	Hour	EUECOATEAST (oven) EU-UNIPRIME (oven)	SC V.1, SC VI.4GC 13 V.1 & VI.2	R 336.2902 (formerly, R 336.1220) R 336.2902 (formerly, R 336.1220)
4. VOC	17.66 tpy ^c 17.66² ^b Tons per year	12-month rolling time period	EUECOATEAST (oven) EU-UNIPRIME (oven)	SC V.1, SC VI.4V.1 & VI.2	R 336.2902 (formerly, R 336.1220) R 336.2902 (formerly, R 336.1220)
5. VOC	1.34 lb/GACS ^c 1.34² Pounds per gallon of applied coating solids	Monthly average	EUECOATEAST (dip tank and oven) EU-UNIPRIME (dip tank and oven)	SC V.1, SC VI.4V.1 & VI.2	40 CFR 60.392, Subpart MM40 CFR 60.392, Subpart MM

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
6.	0.04 lb/GACSB	Monthly Average	EUECOATEAST (dip tank and oven)	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
7.	2.01 tpy ^B	12-month rolling time period as determined at the end of each calendar month	EUECOATEAST (dip tank and oven)	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908

^ABased upon monthly values using methods acceptable to AQD.

^BThis emission limit shall become applicable when the requirements in FGPSWEST/NEWEAST SC IX.2 are met.

^CThis emission limit is applicable until the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.6 and SC I.7 become applicable

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

~~The permittee shall not operate EU-UNIPRIME unless the associated regenerative thermal oxidizer (RTO) for the bake ovens is installed and operating properly. Proper operation of the thermal oxidizer includes maintaining a minimum 3-hour average combustion chamber temperature no more than 50 degrees Fahrenheit below 1450 °F or the average combustion chamber temperature during the most recent acceptable performance test that demonstrated the equivalent destruction efficiency and has been accepted by the AQD District Supervisor.² (R 336.1910, 64.6(c)(i)&(ii), R 336.1213(3))~~

1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

1.

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

1. ~~Until installation of the east RTO, the permittee shall not operate EU-ECOATEAST unless the associated existing RTO for the bake ovens is installed and operating properly. Proper operation of the RTO includes maintaining a minimum 3-hour average combustion chamber temperature at the average combustion chamber temperature during the most recent acceptable performance test that demonstrated the equivalent destruction efficiency and has been accepted by the AQD District Supervisor. (R 336.1910)~~
2. ~~Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the~~The permittee shall not operate the electrodeposition tank and curing oven portions of EUECOATEAST unless the east RTO is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.1702, R 336.1910, R 336.2908)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.4213(3)(b)(ii)1201(3))

~~1. The VOC content, water content and density of any material as used and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.2001, R 336.2003 & R 336.2004)~~

~~2. Verification of Oven Exhaust Control Device VOC Loading rates of EU-UNIPRIME by testing, at owner expense, is required according to the following schedule:~~

~~a. Within 180 days of issuance of this permit if an Oven Exhaust Control Device VOC Loading test has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.~~

~~b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Oven Exhaust Control Device VOC Loading rates.~~

~~Verification of Oven Exhaust Control Device VOC Loading rates includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

~~3. Verification of Destruction Efficiency (DE) of the E-coat Oven Regenerative Thermal Oxidizer (RTO) by testing, at owner expense, is required according to the following schedule:~~

~~a. Within 180 days of issuance of this permit if Destruction Efficiency test of the RTO has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.~~

~~b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Destruction efficiency of the RTO.~~

~~Verification of Destruction Efficiency of the RTO includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

~~**Note:** About 2008, concerning E-coat oven, one Regenerative Thermal Oxidizer (RTO) replaced two thermal oxidizers.~~

See Appendix 5

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EUECOATEAST tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EUECOATWEST tank shall be verified by testing using federal Reference Test Method 24. (R 336.2004, R 336.2040, R 336.2041, R 336.2908)

2. Within 365 days of beginning control of the tank and oven portions of EUECOATEAST and exhausting to the east RTO, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the dip tank and oven portions of EUECOATEAST, by testing at owner's expense, in accordance with Department requirements, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

- 3. Within 365 days of beginning control of the tank and oven portions of EUECOATEAST and exhausting to the new RTO, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify destruction efficiency of the east RTO by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii)1201(3))

1. ~~The permittee shall install, calibrate (in accordance with manufacturer's recommendation), and maintain measurement and recording devices to monitor the thermal oxidizer temperature. A temperature measurement device shall have an accuracy greater of ± 0.75 percent of the temperature being measured expressed in degree Celsius or ± 2.5 °C. The temperature measurement device shall be equipped with recording device so that permanent, continuous record of the thermal oxidizer temperature is produced.² (R 336.1201(3) & 40 CFR Part 60 Subpart MM 60.394, 64.6(c)(i)&(ii))~~

2. ~~The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.1213(3))~~
 - a. ~~The plant production hours, monthly records.~~
 - b. ~~The quantity of materials used, monthly records.~~
 - c. ~~The material identification.~~
 - d. ~~The formulation volume solids.~~
 - e. ~~Tank and oven exhaust control device loading values:~~
 - i. ~~Value(s) used in calculations; and~~
 - ii. ~~Value(s) from most recent test.~~
 - f. ~~Destruction Efficiency of the oxidizer:~~
 - i. ~~Value(s) used in calculations; and~~
 - ii. ~~Value(s) from most recent test.~~
 - g. ~~Material VOC content; in pounds per unit quantity.~~

- ~~h. Calculations showing the VOC emission rates, in pounds per hour, tons per 12-month rolling time period and pounds per gallon of applied coating solids, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

~~All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.~~

- ~~3. For each control device in operation during production (coating vehicles, etc.), if such bypass can occur based upon the design of the pollutant specific emission unit, 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 the bypass line that was open and the length of time the bypass was open shall be kept on file. **(40 CFR 64.3(a)(2))**~~
- ~~4. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) plan for EU-UNIPRIME. The CAM O&M plan shall at a minimum contain the elements outlined in Appendix 3. The plan shall be updated as necessary to reflect changes in monitoring, to implement corrective actions and to address malfunctions. Changes in the CAM portion of the operations and maintenance plan shall be submitted to the district supervisor for review and approval. All records and activities associated with the O&M shall be kept on file for a period of at least five years and made available to the department upon request. **(40 CFR 64.6(c)(1)(i),(ii), 64.7(e))**~~
- ~~5. 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))**~~
- ~~6. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**~~
- ~~7. 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))**~~
- ~~8. The permittee shall properly maintain the monitoring system including keeping necessary parts for routine repairs of the monitoring equipment. **(40 CFR 64.7(b))**~~

See Appendices 3 and 7

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in EU-ECOATEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall install, maintain, and operate in a satisfactory manner, a combustion chamber temperature monitoring device for the east RTO in EU-ECOATEAST to monitor and record the combustion chamber

temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)

4. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUECOATEAST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:
 - a) The monthly usage rate of each material or coating (in gallons - with water).
 - b) For each coating or material:
 - i. The pounds of VOC per gallon as applied (with water).
 - ii. The solids volume fraction.
 - c) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - d) The calculated VOC emission rate in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1225, R 336.1702(a), R 336.2908)

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)(ii))~~
- ~~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. Quarterly reporting of emissions on a pound VOC per gallon of applied coating solids. Due within 30 days of the end of the quarter in which the data were collected. (R 336.1213, NSPS 40 CFR, Part 60 Subparts A & MM)~~
- ~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions or exceedances, as applicable and the corrective actions taken. If there were no excursions or exceedances in the reporting period, then this report shall include a statement that there were no excursions 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

NA

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
<u>SVRTOEAST</u>	<u>60</u>	<u>114</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
12. SVSMB-B-05-01	NA	42⁺	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>R 336.1901

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
23. SVSMB-B-05-02	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
43. SVSMB-B-13-01	NA	46 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
45. SVSMB-B-22-02	NA	46 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
56. SVSMB-C-02-01	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
67. SVSMB-C-08-01	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
78. SVSMB-C-08-02	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
89. SVSMB-C-08-03	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
910. SVSMB-C-09-01	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1011. SVSMB-C-10-01	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1112. SVSMB-C-10-02	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1213. SVSMB-C-10-03	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1314. SVSMB-C-11-01	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1415. SVSMB-C-11-02	NA	42 ⁺	R 336.1225, 40 CFR 52.21(c) & (d) R 336.1901
1516. SV-UNIPRIMERTO	NA	NA	R 336.1225, 40 CFR 52.21(c) & (d) NA
Stacks listed in SC VIII.2 through SC VIII.16 shall be replaced by SVRTOEAST after the requirements in FGPSWEST/NEWEAST SC IX.2 have been met.			

IX. OTHER REQUIREMENT(S)

- ~~1. 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 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))~~
- ~~2. The permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart MM (Standards of Performance for Automobile and Truck Surface Coating Operations) and Subpart A (General Provisions). (40 CFR, Part 60, Subpart MM)~~
 - ~~1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EU ECOATEAST. (40 CFR Part 63, Subparts A and Subpart IIII)~~
 - ~~2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EU ECOATEAST. (40 CFR 60.390)~~
- ~~3. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: (40 CFR 64.6(e)(2))~~

- a.—A temperature excursion is defined as a confirmed three-hour period during which the average fails to meet the specified temperature requirements in Special Conditions III.1.
- b.—A monitoring excursion is defined as a failure to properly monitor as required in Special Conditions VI.1, VI.3 and VI.4.
- c.—A monitoring excursion is defined as failure to properly implement and/or maintain the O&M plan required in Special Conditions VI.4.

4.—The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**

Footnotes:

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

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

EUPWDRPRMEAST EMISSION UNIT CONDITIONS

DESCRIPTION

A powder anti-chip coating application process in the east paint shop which is electrostatically applied. The spray booth also includes the application of a colored powder basecoat for tutone applications. The powder spray application is controlled by a particulate filtration system which is vented inside the plant.

Flexible Group ID: FGCONTROLS, FGAUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the powder application booth.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring / Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. VOC</u>	<u>0.05 lb/GACS</u>	<u>Calendar Day Averaging</u>	<u>EUPWDRPRMEAST</u>	<u>SC VI.4</u>	<u>R 336.1205, R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM</u>
<u>2. VOC</u>	<u>3.5 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>EUPWDRPRMEAST</u>	<u>SC VI.4</u>	<u>R 336.1205, R 336.1702(a), R 336.2908</u>

0. There shall be no visible emissions from the anti-chip curing oven stacks listed in SC VIII.1 and VIII.2 (R 336.1301, 40 CFR 52.21 (c) & (d))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUPWDRPRMEAST unless the dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3 and exhausting the particulate control system within the in-plant environment. (R 336.1224, R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

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

material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
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 used in EUPWDRPRMEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))
4. The permittee shall keep production, usage, VOC, solids content, and emissions calculation records on a monthly basis for each coating and material used in EUPWDRPRMEAST. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended. (The Auto Protocol). The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following (as applicable to powder coatings):
 - a) The daily and monthly number of jobs produced.
 - b) The coatings used, and the number of square feet coated with each coating in each spray booth determined daily.
 - c) The monthly usage rate of each material (in gallons).
 - d) For each coating material:
 - i. The calculated monthly VOC content in pounds of VOC per gallon as applied.
 - ii. The calculated monthly formulation volume solids content as applied.
 - e) The calculated volume of each coating used each day by prorating the volume of that coating used in a month to each day in the month.
 - f) The total gallons of solids deposited on a daily basis.
 - g) The calculated average daily VOC emission rate in pounds per gallon of applied coating solids.
 - h) Calculated VOC emission rates in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter/Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVDSANTIOVEN1</u>	<u>54</u>	<u>90</u>	<u>R 336.1225, 40 CFR 52.21 (c) & (d)</u>

<u>2. SVDSANTIOVEN2</u>	<u>54</u>	<u>90</u>	<u>R 336.1225, 40 CFR 52.21 (c) & (d)</u>
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3. There shall be no external exhaust from EUPWDRPRMEAST other than the anti-chip cure ovens listed in SC VIII.1 and VIII.2. (R 336.1225, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUPWDRPRMEAST. (40 CFR Part 63, Subpart A and Subpart IIII)
2. The permittee shall comply with all applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and MM, as they apply to EUPWDRPRMEAST. (40 CFR 60.390)

Footnotes:

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

EU-SOLVENT-WIPEEUPURGECLEANEA EMISSION UNIT CONDITIONS

DESCRIPTION

EU-SOLVENT-WIPE: Emissions from solvent wipes and body cleaners throughout the plant. Formerly EU-SOLVENT-WIPE. Emissions from purge solvent, solvent wipes, and body wipe cleaners throughout the body shop, east paint shop, and final assembly portions of the plant. ~~After installation of the east concentrator and east RTO, VOC emissions from the solvent-based purge materials used within the basecoat and clearcoat booths are controlled by the east concentrator and east RTO, except when collected in the purge collection system.~~

Flexible Group ID: FG-AUTOMACT, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

~~NA After installation of the east concentrator and east RTO, VOC emissions from the solvent-based purge materials used within the basecoat and clearcoat booths are controlled by the east concentrator and east RTO, except when collected in the purge collection system.~~

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	488.6 pph^{β,D} 488.6 ^β Pounds per hour	Per hour operated in a calendar month Hour	EUPURGECLEANEA STEU-SOLVENT-WIPE	SC-VI.5GC-13 SC-VI.1	R-336.2902 (formerly R-336.1220)R-336.2902 (formerly, R-336.1220)
2. VOC	1502.58 tpy ^D 1502.58 ² Tons per year	12-month rolling time period as determined at the end of each calendar month 12-month rolling time period	EUPURGECLEANEA STEU-SOLVENT-WIPE	SC-VI.5SC-VI.1	R-336.2902 (formerly R-336.1220)R-336.2902 (formerly, R-336.1220)
3. VOC	440.0 pph ^{β,c}	Per hour operated in a calendar month	EUPURGECLEANEA ST	SC-VI.5	R-336.2908
4. VOC	555.0 tpy ^C	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANEA ST	SC-VI.5	R-336.2908
5. VOC	245.1 tpy ^E	12-month rolling time period as determined at the end of each calendar month	EUPURGECLEANEA ST	SC-VI.6	R-336.2908

^βBased upon monthly values using methods acceptable to AQD-^β Based upon monthly values using methods acceptable to the AQD.

^cThis emission limit shall become applicable based on the requirements in SC IX.1, unless the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.5 is applicable.

^βThese emission limits are applicable until the requirements in SC IX.1 are met and SCs I.3 and I.4 become applicable, unless the requirements in FGPSWEST/NEWEAST SC IX.2 are met and SC I.5 is applicable.

^EThis emission limit shall become applicable when the requirements in FGPSWEST/NEWEAST SC IX.2 are met

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA1. ~~Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, T~~the permittee shall not process solvent borne purge materials in the coating booth portions of EU-COLOR-ONE unless the east concentrator and east RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.2908(3))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.4243(3)(b)(ii)1201(3))

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.4213(3)(b)(ii)1201(3))

1. ~~The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.1213(3))~~
 - a. ~~The plant production hours, monthly records.~~
 - b. ~~The quantity of materials used, monthly records.~~
 - c. ~~The material identification.~~
 - d. ~~Material VOC content; in pounds per unit quantity.~~
 - e. ~~Calculations showing the VOC emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.

See Appendix 7

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
 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 Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702, R 336.2908)
 3. ~~Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the~~The permittee shall monitor and record the combustion chamber temperature in the east RTO on a continuous (measurements made at equally spaced intervals, not to exceed 15 minutes per interval) basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.390)
 4. ~~Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the~~The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a temperature monitoring device to determine the concentrator desorption gas inlet temperature on a continuous basis, during operation of EUPURGE/CLEANEAST. Gas temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. (R 336.1702(a), R 336.1910, R 336.2908)
- ~~Until the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the permittee shall keep the following records/calculations using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.2902, R 336.2908)~~
- ~~The plant production hours, monthly records.~~
- ~~The quantity of materials used, monthly records.~~
- ~~The material identification.~~
- ~~Material VOC content; in pounds per unit quantity.~~
- ~~Calculations showing the VOC mass emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.2902, R 336.2908)**

6. ~~Once the requirements in FGPSWEST/NEWEAST SC IX.2 are met, the~~The applicant shall keep monthly records, acceptable to the AQD District Supervisor, of the following information for EUPURGECLEANEAST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum, shall indicate the following:
- a) For each material used:
 - i. A description of the material, its purpose, and its VOC content in pounds per gallon.
 - ii. The total amount used, and the amount used in the automatic zones of EU-COLOR-ONE, both in gallons.
 - iii. The amount in gallons reclaimed, where applicable.
 - b) The total amount of purge solvent used in gallons per month and gallons per 12-month rolling time period as determined at the end of each calendar month.
 - c) VOC combined emission calculations determining the total mass emissions in tons per month and tons per year based upon a 12-month rolling time period as determined at the end of each calendar month. In performing these calculations, the actual tested control efficiency over EU-COLOR-ONE, shall be applied to the materials used in the controlled automatic zones.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1702(a), R 336.2908)**

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. ~~Quarterly reporting of VOC emissions and solvent/coating usage data (the usage data need not be submitted but shall be kept on file) within 30 days following the end of the quarter in which the data were collected.² **(R 336.1201(3))**~~

See Appendix 8

1. Quarterly reporting of VOC emissions and solvent/coating usage data (the usage data need not be submitted but shall be kept on file) within 30 days following the end of the quarter in which the data were collected. **(R 336.1201(3))**

~~The permittee shall send written notification to the AQD District Supervisor within 30 days of the startup of the automotive assembly line associated with PTI #14-19A for FCA USA LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A. **(R 336.1201(7))**~~

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. <u>SVBTHCONCEASTNA</u>	<u>60NA</u>	<u>106NA</u>	R 336.1225, 40 CFR 52.21(c) & (d)NA

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
<u>2. SVRTOEAST</u>	<u>60</u>	<u>114</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

NA

~~EUPURGECLEANEAST shall become subject to the emission limits listed in SC I.3 & SC I.4 and no longer subject to SC I.1 & SC I.2 upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A. (R 336.2908)~~

~~Once the requirements of FGPSWEST/NEWEAST SC IX.2 are met, EUPURGECLEANEAST shall become subject to the emission limit listed in SC I.5 and no longer subject to the emission limits in SC I.1, SC I.2, SC I.3, and SC I.4. (R 336.2908)~~

Footnotes:

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

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

**EUSPOTREPAIREAST
EMISSION UNIT CONDITIONS**

DESCRIPTION

Spot repair process in the east paint shop, prior to the topcoat application.

Flexible Group ID: FGAUTOMACT, FGCONTROLS, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the spot repair process, which is then exhausted to the atmosphere.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. VOC	4.8 lbs VOC per gallon (minus water), as applied	Calendar Month Average	EUSPOTREPAIREAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908
2. VOC	0.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUSPOTREPAIREAST	SC VI.4	R 336.1205, R 336.1702(a), R 336.2908
5. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^a	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1331
6. PM10	0.026 pph	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)
7. PM2.5	0.026 pph	Hourly	EUSPOTREPAIREAST	SC V.2	R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUSPOTREPAIREAST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied in EUSPOTREPAIREAST, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer’s formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)
2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative station of EUSPOTREPAIREAST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)
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 used in EUSPOTREPAIREAST. The data may consist of Safety Data Sheets, manufacturer’s formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSPOTREPAIREAST. The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.
 - e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8

pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

II. 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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVDS SPOTEAST	41	106	R 336.1225, 40 CFR 52.21(c) & (d)

VIII. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUSPOTREPAIREAST. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

EU-SEALERS&ADHESIVE EUSEALERS
EMISSION UNIT CONDITIONS

DESCRIPTION

~~EU-SEALERS&ADHESIVE: Application of sealers and adhesives and associated gelling oven. Formerly EU-SEALERS&ADHESIVES. Various manual and robotic sealers and adhesive (including glass bonding) application stations/booths. Sealers and adhesives are applied at various decks in both west and east paint shops (some of which are cured in the sealer oven), the body shop, and the final assembly areas of the facility.~~

Flexible Group ID: ~~FG-AUTOMACT, FGPSWEST/NEWEAST~~

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	0.25 lbs VOC per gallon (minus water), as applied $151.2^{2\#}$ Pounds per hour	Calendar Month Average Hour	EUSEALER EU-SEALERS&ADHESIVE	SC VI.3GC-13 V.1	R 336.1205, R 336.1702(a), R 336.2908R 336.2902 (formerly, R 336.1220)
2. VOC	26.8 tpy $325.73^{2\#}$ Tons per year	12-month rolling time period as determined at the end of each calendar month 12-month rolling time period	EUSEALER EU-SEALERS&ADHESIVE	SC VI.3V.1, VI.1	R 336.1205, R 336.1702(a), R 336.2908R 336.2902 (formerly, R 336.1220)
3. VOC	11.1 tpy $3.0^{2\#}$ Pounds per gallon of coating, minus water, as applied	12-month rolling time period as determined at the end of each calendar month Daily / Monthly (see SC VI.1)	Sealers and adhesives used in the west Paint Shop portion of EU-SEALEREU-SEALERS&ADHESIVE	SC VI.3V.1, VI.1	R 336.1205, R 336.1702(a), R 336.2908R 336.2902 (formerly, R 336.1220)

[#]On monthly basis if and only if all coatings satisfy the limit.
[#]Based upon monthly values using methods acceptable to AQD.

0. ~~There shall be no visible emissions from SVSLROVENEAST (R 336.1301, 40 CFR 52.21 (c) & (d))~~

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA1. All waste coatings and VOC containing materials shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1702(a), R 336.2908)

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))1201(3))

~~For EU-SEALERS&ADHESIVE, the permittee shall determine the VOC content of each coating or material using federal Reference Test Method 24 at the time and temperature specified in the method or at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the test results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content of each coating or material shall be verified by testing. (R 336.1213(3))~~ 1. The VOC content, water content and density of any sealer or adhesive as applied in EUSEALERS, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content and density of any sealer, adhesive, or deadener material shall be verified by testing using federal Reference Test Method 24. (R 336.2004, R 336.2040, R 336.2041, R 336.2908)

~~4.~~

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))1201(3))

~~1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.1213(3))~~

~~a. The hours of operation, monthly records.~~

~~b. The quantity of materials used and the VOC content as applied, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.~~

~~c. The material identification.~~

~~d. The mixing ratio of coating and reducer, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.~~

~~e. VOC emission: Monthly calculation record of VOC emission rates (lbs./hr., tons/yr. based upon a 12-month rolling time period, lbs./gal. (minus water as applied) according to the Method outlined in Appendix 7, or an alternative method approved by AQD.~~

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1702, R 336.2908)

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 used in EUSEALERS. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor.

The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

- 3. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUSEALERS. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions for materials used in the West Paint Shop portion of EUSEALERS in tons per month and tons per year based on a 12-month rolling time period as determined at the end of each calendar month.
 - e) VOC emission calculations determining the total VOC mass emissions in tons per month and tons per year based on a 12-month rolling time period as determined at the end of each calendar month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1702(a), R 336.2908)

See Appendix 7

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
- ~~4. Quarterly reporting of VOC emissions. Due within 30 days of the end of the quarter in which the data were collected. (R 336.1213(3), NSPS 40 CFR, Part 60 Subparts A & MM)~~

See Appendix 8NA

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
<u>1. SVSLROVENEASTNA</u>	<u>48NA</u>	<u>90NA</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)NA</u>

- 2. Sealers applied in the west paint shop shall not be directly discharged to the ambient air at any time.¹ (R 336.1225)

IX. OTHER REQUIREMENT(S)

~~NA1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and IIII, as they apply to EUSEALERS. (40 CFR Part 63 Subparts A and IIII)~~

Footnotes:

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

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

**EU-BLACKOUT-BOOTH
EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-BLACKOUT-BOOTH: Spray booth for applying blackout paint to vehicle bodies. The booth is on long-term idle.

Flexible Group ID: FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

Dry filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time-Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	10.5 ² [#] Ponds per hour	Hour	EU-BLACKOUT-BOOTH	GC-13 SC-V.1, VI.1	R 336.1702(c)
2. VOC	22.62 ² Tons per year	12-month rolling time period	EU-BLACKOUT-BOOTH	SC-V.1, VI.1	R 336.1702(c)

[#]Based upon monthly values using methods acceptable to AQD.

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-BLACKOUT-BOOTH unless all exhaust filters are in place and operating properly.² (R 336.1910)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.2001, R 336.2003 & R 336.2004)

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. ~~The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.1213(3))~~
 - a. ~~The plant production hours, monthly records.~~
 - b. ~~The quantity of materials used, monthly records.~~
 - c. ~~The material identification.~~
 - d. ~~Material VOC content; in pounds per unit quantity.~~
 - e. ~~Calculations showing the VOC emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.

2. ~~The permittee shall keep records of quarterly visual inspections of each exhaust filter (ensuring that filters are installed snug and tight without gaps and holes) or water wash particulate control system which include the dates and results of the inspections and the dates and reasons for repairs. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1213(3))~~

See Appendix 7

VII. REPORTING

1. ~~Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
2. ~~Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))~~
3. ~~Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
4. ~~Quarterly reporting of VOC emissions and coating usage data (the usage data need not be submitted but shall be kept on file) within 30 days following the end of the quarter in which the data were collected. (R 336.1213(3))~~

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSMB L-17-02	NA	90 ¹	R 336.1904
2. SVSMB L-17-03	NA	90 ¹	R 336.1904

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EU-TUTONE
EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-TUTONE: The Tutone booth for applying topcoat on Tutoned vehicle bodies and associated curing oven.

Flexible Group ID: FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

1. A thermal oxidizer(s) for VOC from the bake oven.
2. A down-draft waterwash system for paint overspray particulate control.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	12.3 ^{2-θ} Pounds per gallon (1.47 kg per liter) of applied coating solids	Calendar month	EU-TUTONE	SC V.4, VI.1, VI.3	40 CFR 60 Subpart MM
2. VOC	381.1 ^{2-β} Pounds per hour	Hour	EU-TUTONE Spraybooth	GC 13 SC V.4, VI.2, VI.3	R 336.2902 (formerly, R 336.1220)
3. VOC	821 ² Tons per year	12-month rolling time period	EU-TUTONE Spraybooth	SC V.4, VI.3	R 336.2902 (formerly, R 336.1220)
4. VOC	9.51 ^{2-β} Pounds per hour	Hour	EU-TUTONE Oven	SC V.4, VI.2, VI.3	R 336.2902 (formerly, R 336.1220)
5. VOC	20.53 ² Tons per year	12-month rolling time period	EU-TUTONE Oven	SC V.4, VI.3	R 336.2902 (formerly, R 336.1220)

^θPer the EPA Protocol (VI(4) & (6))

^βBased upon monthly values using methods acceptable to AQD.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-TUTONE unless the thermal oxidizer for the oven is installed and operating properly at or above the temperature based upon most recent stack test for VOC destruction efficiency (DE) (e.g., April 2015 stack test minimum temperature = 1360 °F based upon 3-hour average temperature that is in turn based upon 3 runs of 1-hour sampling).² **(R 336.1910, R 336.1911, 40 CFR 64.6(c)(1)(i), (ii))**
2. The permittee shall not operate EU-TUTONE unless a down-draft waterwash system is installed and operating properly.² **(R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

~~1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.2001, R 336.2003 & R 336.2004)~~

~~2. Verification of the Transfer Efficiency (TE) rates by testing of EU-TUTONE, or use of a default Transfer Efficiency as allowed by the EPA Protocol, at owners expense, is required according to the following schedule:~~

- ~~a. Within 180 days of issuance of this permit if an acceptable Transfer Efficiency test has not been conducted within five years prior to the issuance of the ROP permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.~~
- ~~b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Transfer Efficiency, as required by the EPA Protocol.~~

~~Verification of the Transfer Efficiency rate includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than 30 days prior to testing, a complete testing plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Not less than seven days before any tests are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

~~3. Verification of Oven Exhaust Control Device VOC Loading rates of the EU-TUTONE line by testing, at owner expense, is required according to the following schedule:~~

- ~~a. Within 180 days of issuance of this permit if an Oven Exhaust Control Device VOC Loading test has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.~~
- ~~b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Oven Exhaust Control Device VOC Loading rates.~~

~~Verification of Oven Exhaust Control Device VOC Loading rates includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

~~4. Verification of Destruction Efficiency (DE) of the Thermal Oxidizer for the EU-TUTONE oven by testing, at owner expense, is required according to the following schedule:~~

- ~~a. Within 180 days of issuance of this permit if Destruction Efficiency test of the Thermal Oxidizer for the oven has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.~~
- ~~b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Destruction efficiency of the Thermal Oxidizer.~~

~~Verification of Destruction Efficiency of the Thermal Oxidizer for the oven includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- ~~1. The permittee shall install, calibrate (in accordance with manufacturer's recommendation), and maintain measurement and recording devices to monitor each thermal oxidizer temperature. A temperature measurement device shall have an accuracy of greater of ± 0.75 percent of the temperature being measured expressed in degree Celsius or ± 2.5 °C. The temperature measurement device shall be equipped with recording device so that permanent, continuous record of the thermal oxidizer temperature is produced.² (R 336.1201(3) & 40 CFR Part 60 Subpart MM 60.394, 64.6(c)(1)(i),(ii))~~
- ~~2. The permittee shall conduct visual inspections of the waterwash system on a weekly basis during weeks while production is occurring.² (R 336.1201(3))~~
- ~~3. The temperature monitor of the thermal oxidizer shall be placed in the firebox or in the duct immediately downstream of the firebox before any substantial heat exchange occurs. (R 336.1213(3))~~
- ~~4. Records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in accordance with the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light duty Truck Topcoat Operations", EPA 453/R-08-002, or as amended (The EPA Protocol): (R 336.1213(3))~~
 - ~~a. For each type of coating used during the calendar month:

 - ~~i. Coating identification;~~
 - ~~ii. Analytical VOC content as determined by EPA Reference Test Method 24;~~
 - ~~iii. Formulation VOC and volume solids content;~~
 - ~~iv. Coating usage (daily or monthly), including withdrawals; and~~
 - ~~v. Dilution solvent usage and density.~~~~
 - ~~b. Number of vehicles coated per production day by body style, coating color, and square footage coated (or equivalent unit), unless daily coating records are kept.~~
 - ~~c. Transfer Efficiency (TE):

 - ~~i. Value(s) used in protocol calculations;~~
 - ~~ii. Value(s) from most recent test; and~~
 - ~~iii. Annual review of operating conditions to demonstrate that the Transfer Efficiency remains valid.~~~~
 - ~~d. Oven exhaust control device VOC loading (booth/oven split):

 - ~~i. Value(s) used in protocol calculations;~~
 - ~~ii. Value(s) from most recent test; and~~
 - ~~iii. Annual review of operating conditions to demonstrated that the oven exhaust control device VOC loading remains valid.~~~~
 - ~~e. Destruction Efficiency (DE) of the control device;

 - ~~i. Value(s) used in protocol calculations; and~~
 - ~~ii. Value(s) derived from most recent test.~~~~
- ~~5. Plant production hours: monthly records. (R 336.1213(3))~~
- ~~6. Records of the VOC mass emission rates~~

- a. ~~The emission rates (pounds per hour; tons per month; and tons per 12-month rolling time period) shall be calculated according to the method in Appendix 7 or an alternative method that is acceptable to the AQD. (R 336.1213(3))~~
- b. ~~The emission rates (pounds per gallon of applied coating solids) for each production day shall be determined by using the EPA Protocol.~~
7. ~~Weekly records of the condition of the water wash system and records of the date of maintenance/repairs. (R 336.1213(3))~~
8. ~~For each control device in operation during production (coating vehicles, etc.), if such bypass can occur based upon on the design of the pollutant specific emission unit, 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 the bypass line that was open and the length of time the bypass was open shall be kept on file. (40 CFR 64.3(a)(2))~~
9. ~~The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) plan for EU-TUTONE. The CAM O&M plan shall at a minimum contain the elements outlined in Appendix 3. The plan shall be updated as necessary to reflect changes in monitoring, to implement corrective actions and to address malfunctions. Changes in the CAM portion of the operations and maintenance plan shall be submitted to the district supervisor for review and approval. All records and activities associated with the O&M shall be kept on file for a period of at least five years and made available to the department upon request. (40 CFR 64.6(c)(1)(i),(ii), 40 CFR 64.7(e))~~
10. ~~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))~~
11. ~~Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). (40 CFR 64.7(d))~~
12. ~~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))~~
13. ~~The permittee shall properly maintain the monitoring system including keeping necessary parts for routine repairs of the monitoring equipment. (40 CFR 64.7(b))~~

See Appendix 7

VII. REPORTING

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

- ~~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. Quarterly reporting of emissions on a pound VOC per gallon of applied coating solids. Due within 30 days of the end of the quarter in which the data were collected. (R 336.1213, NSPS 40 CFR, Part 60 Subparts A & MM)~~
- ~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions or exceedances, as applicable and the corrective actions taken. If there were no excursions or exceedances in the reporting period, then this report shall include a statement that there were no excursions 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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSMB-F-03-01	NA	42¹	R 336.1901
2. SVSMB-F-04-01	NA	42¹	R 336.1901
3. SVSMB-F-04-02	NA	42¹	R 336.1901
4. SVSMB-F-08-02	NA	42¹	R 336.1901
5. SVSMB-F-09-02	NA	42¹	R 336.1901
6. SVSMB-F-13-TT-01	NA	90¹	R 336.1901
7. SVSMB-F-13-TT-02	NA	90¹	R 336.1901
8. SVSMB-F-13-TT-03	NA	90¹	R 336.1901
9. SVSMB-F-14-TT-01	NA	90¹	R 336.1901
10. SVSMB-F-14-TT-02	NA	90¹	R 336.1901
11. SVSMB-F-14-TT-03	NA	90¹	R 336.1901
12. SVSMB-F-14-TT-04	NA	90¹	R 336.1901
13. SVSMB-F-15-TT-01	NA	90¹	R 336.1901
14. SVSMB-F-15-TT-02	NA	90¹	R 336.1901
15. SVSMB-F-15-TT-03	NA	90¹	R 336.1901
16. SVSMB-F-16-TT-01	NA	90¹	R 336.1901
17. SVSMB-F-16-TT-02	NA	90¹	R 336.1901
18. SVSMB-F-16-TT-03	NA	90¹	R 336.1901
19. SVSMB-F-16-TT-04	NA	90¹	R 336.1901
20. SVSMB-F-17-TT-01	NA	90¹	R 336.1901
21. SVSMB-F-17-TT-02	NA	90¹	R 336.1901
22. SVSMB-F-17-TT-03	NA	90¹	R 336.1901
23. SVSMB-F-18-TT-01	NA	90¹	R 336.1901
24. SVSMB-F-18-TT-02	NA	90¹	R 336.1901
25. SVSMB-F-18-TT-03	NA	90¹	R 336.1901

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
26. SVSMB-F-18-TT-04	NA	90 ¹	R 336.1901
27. SVSMB-F-19-TT-01	NA	90 ¹	R 336.1901
28. SVSMB-F-19-TT-02	NA	90 ¹	R 336.1901
29. SVSMB-F-19-TT-03	NA	90 ¹	R 336.1901
30. SVSMB-F-19-TT-04	NA	90 ¹	R 336.1901

IX. OTHER REQUIREMENT(S)

1. ~~The permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart MM (Standards of Performance for Automobile and Truck Surface Coating Operations) and Subpart A (General Provisions). (40 CFR, Part 60, Subpart MM)~~
2. ~~For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: (64.6(c)(2))~~
 - a. ~~A temperature excursion is defined as a confirmed three-hour period (except as allowed by 40 CFR 64.7(c)) during which the average fails to meet the most recently acceptable performance test value.~~
 - b. ~~A monitoring excursion is defined as a failure to properly monitor as required in Special Conditions VI.1, VI.3 and VI.8.~~
 - c. ~~A monitoring excursion is defined as failure to properly implement and/or maintain the O&M plan required in Special Conditions VI.9~~
3. ~~The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~
4. ~~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 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:

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

**EU-FLUID-FILL EUFLUIDFILL
EMISSION UNIT CONDITIONS**

DESCRIPTION

~~Formerly EU-FLUID-FILL: Each vehicle will be filled with various fluids such as gasoline, antifreeze, transmission fluid, power steering fluid, and windshield washer fluid. EU-FLUID-FILL: Stations for filling fuel tanks (gasoline) and windshield washer solution, brake, power steering etc. reservoirs.~~

Flexible Group ID: FGPSWEST/NEWEAST~~NA~~

POLLUTION CONTROL EQUIPMENT

~~Stage II vapor balance system or onboard Re-fueling Vapor Recovery systems for vehicles.~~NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	12.3²[§] Pounds per hour	Hour	EU-FLUID-FILL	SC-VI.1	R 336.1702(a)
21. VOC	26.39² Tons per year <u>2.7 tpy</u>	12-month rolling time period <u>12-month rolling time period as determined at the end of each calendar month</u>	EU-FLUID-FILL <u>EUFLUIDFILL</u>	SC-VI.1 <u>VI.3</u>	R 336.1702(a) <u>R 336.1205, R 336.1702(a), R 336.2908</u>

[§]Based upon monthly values using methods acceptable to AQD.

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not add gasoline to any vehicle without an Onboard Re-fueling Vapor Recovery system.² ~~(R 336.1702(a), R 336.1204(3))~~2908

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. NA The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe. ~~(R 336.1703(1), R 336.2908)~~
2. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel

is equipped with a vapor balance system or an equivalent control system approved by the Department. The vapor balance system shall capture displaced gasoline vapor and air via a vaportight collection line and shall be designed to return not less than 90% by weight of the displaced gasoline vapor from the stationary vessel to the delivery vessel. The respective stationary vessels shall be equipped, maintained, or controlled with the following: **(R 336.1703(2), R 336.2908)**

- a) An interlocking system or procedure to ensure that the vaportight collection line is connected before any gasoline can be loaded.
- b) A device to ensure that the vaportight collection line shall close upon disconnection so as to prevent release of gasoline vapor.

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii)1201(3))**

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii)1201(3))**

~~1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. **(R 336.1213(3))**~~

- ~~a. The plant production hours, monthly records.~~
- ~~b. The quantity of materials used, monthly records.~~
- ~~c. The material identification.~~
- ~~d. Material VOC content; in pounds per unit quantity.~~

~~Calculations showing the VOC emission rates, in pounds per hour and tons per 12-month rolling time period, as determined at the end of each calendar month as outlined in Appendix 7, or an alternative that is acceptable to the District Supervisor.~~

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**

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 Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

3. The permittee shall keep the following records on a monthly basis using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. **(R 336.1702, R 336.2908)**

- a) The quantity of materials used.
- b) The material identification.
- c) Material VOC content; in pounds per unit quantity.
- d) Calculations showing the VOC emission rate in tons per month and tons per 12-month rolling time period, as determined at the end of each calendar month.

~~e.~~

All records/calculations shall be kept on file for a period of at least five years and made available to the Department upon request.

See Appendix 7

VII. REPORTING

NA

- ~~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. Quarterly reporting of the VOC emissions. Due within 30 days of the end of the quarter in which the data were collected.² (R 336.1201(3))~~

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

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

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EU-FINAL-REPAIR
EMISSION UNIT CONDITIONS

DESCRIPTION

~~EU-FINAL-REPAIR: Final repair system, for low bake, includes two spot repair stations with associated spovens (one spoven per booth) and sanding booths in Repair Dept. 9190 of Main Building. Prep booths or sanding booths are equipped with side-draft dry filters. The spovens (spot ovens) are equipped with IR Heat and are located inside the downdraft spray booths. The booths (2) are equipped with downdraft filters like collision shop booths. These booths should not be confused with Spot Repair Deck 1-12, with carbon adsorption system, located in paint shop. Formerly EU-FINAL-REPAIR: Final repair operations including a coating area. Prep booths or sanding booths are equipped with side-draft dry filter particulate control systems. Spray booths are equipped with downdraft dry filter particulate control system. Emissions are exhausted to the general in-plant environment.~~

~~Flexible Group ID: FG-AUTOMACT, FGAUTOMACT, FGPSWEST/NEWEAST~~

POLLUTION CONTROL EQUIPMENT

- ~~1. Down-draft filters for paint spray booths~~
- ~~2.1. Side-draft filters for sanding booths Side-draft dry filter particulate controls on sanding booths. Downdraft dry filter particulate control systems on spray booths.~~

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	45.0² ^β Pounds per hour	Hour	EU-FINAL-REPAIR	GC-13 SC V.1, VI.2	R-336.1702
2. VOC	4.8 lb/gal (minus water), as applied 52.1² Tons per year	Daily volume weighted average 12-month rolling time period	EU-FINAL-REPAIR	SC V.1, VI.4 V.1, VI.2	R 336.1702(a), R 336.2908 R-336- 1702
3. VOC	1.2 tpy 4.8² ^β Pounds per gallon of coating minus water as applied	12-month rolling time period as determined at the end of each calendar month Daily / Monthly (see SC VI.2)	EU-FINAL-REPAIR	SC V.1, VI.4 V.1, VI.2	R 336.1702(a), R 336.2908 R-336- 1702(d)

^βOn monthly basis if and only if all coatings satisfy the limit.
^βBased upon monthly values using methods acceptable to AQD.

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

~~1. The permittee shall not operate EU-FINAL-REPAIR unless all exhaust filters are installed and operating properly.² (R 336.1910)~~

~~1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)~~

IV. DESIGN/EQUIPMENT PARAMETER(S)

~~NA1. The permittee shall not operate EU-FINAL-REPAIR unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))~~

V. TESTING/SAMPLING

~~Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii)1201(3))~~

~~1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.2001, R 336.2003 & R 336.2004)~~

~~See Appendix 51. The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)~~

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 conduct visual inspections (ensuring that filters are installed snug and tight without gaps and holes) of the associated exhaust filters for EU-FINAL-REPAIR on a quarterly basis when coating has occurred filter. The permittee shall keep records of the quarterly inspections and maintenance activity to ensure proper operation of exhaust filters. (R 336.1213(3))~~

~~2. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. (R 336.1213(3))~~

~~a. The hours of operation, monthly records.~~

~~b. The quantity of materials used and the VOC content as applied, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.~~

~~c. The material identification.~~

~~d. The mixing ratio of coating and reducer, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.~~

~~e. VOC emission: Monthly calculation record of VOC emission rates (lbs./hr., tons/yr. based upon a 12-month rolling time period, lbs./gal. (minus water as applied) according to the Method outlined in Appendix 7, or an alternative method approved by AQD.~~

See Appendix 7 Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702, R 336.2908)**
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 used in EUFINALREPAIR. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in EUFINALREPAIR. The records shall be kept in a format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:
 - a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
 - b) The monthly usage rate of each material.
 - c) The amount of material reclaimed where applicable.
 - d) VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.
 - e) Monthly calculations of the average daily pounds of VOC per gallon, unless all coatings contain less than 4.8 pounds VOC per gallon minus water, as applied.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)**

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. Quarterly reporting of the VOC emissions (the coatings and solvents usage data need not be submitted but shall be kept on file). Due within 30 days of the end of the quarter in which the data were collected. **(R 336.1213(3), 40 CFR Part 60 Subparts A & MM)**~~

See Appendix 8NA

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. SVNMB-A-19-01	54 ¹	53 ¹	R 336.1901
2. SVNMB-A-19-02	54 ¹	53 ¹	R 336.1901
3. SVNMB-A-19-03	54 ¹	53 ¹	R 336.1901
4. SVNMB-A-25-01	54 ¹	53 ¹	R 336.1901
5. SVNMB-A-25-02	54 ¹	53 ¹	R 336.1901

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

1. The exhaust gases from EUFINALREPAIR shall not be directly discharged to the ambient air at any time. (R 336.1225, 40 CFR 52.21(c) & (d))

IX. OTHER REQUIREMENT(S)

NA1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to EUFINALREPAIR. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

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

**EU-SPOT-REPAIR-DECK
EMISSION UNIT CONDITIONS**

DESCRIPTION

EU-SPOT-REPAIR-DECK: 1 through 12 spot repair painting stations with portable hose emissions capture system and associated IR (infra-red) curing ovens. The emissions are ducted to a common control system consisting of series of dry filters and carbon adsorption. Carbon is monitored for breakthrough using color change at sight glass.

Flexible Group ID: FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT

1. Dry filter system for particulate emissions
2. Carbon adsorption system for VOC

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	146.4 ² Pounds per day	24-hour calendar day	EU-SPOT-REPAIR-DECK	SC V.1, VI.2	R 336.1702(d), R 336.1205, R 336.1901, R 336.1225
2. VOC	22.0 ² Tons per year	12-month rolling time period	EU-SPOT-REPAIR-DECK	SC V.1, VI.2	R 336.1702(d), R 336.1205, R 336.1901, R 336.1225
3. VOC	4.8 ^{2θ} Pounds per gallon, minus water, as applied	Daily / Monthly (see SC VI.2)	EU-SPOT-REPAIR-DECK	SC V.1, VI.2	R 336.1702(d), R 336.1205, R 336.1225

^θOn monthly basis if and only if all coatings satisfy the limit.

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not apply coatings in the spot repair stations (1-12) unless the portable infra-red (IR) curing and vapor and particulate collection (capture) units with carbon adsorption and dry filters controls are installed and operating properly.² (R 336.1702(d), R 336.1205, R 336.1901, R 336.1225)
2. The permittee shall equip and maintain all spot repair coating stations with high volume low pressure (HVLP) spray guns or equivalent technology with comparable transfer efficiency.² (R 336.1702(a) & R 336.1205)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.2001, R 336.2003 & R 336.2004)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct inspections and maintain records of the inspections for the associated exhaust filters and carbon adsorption units for EU-SPOT-REPAIR-DECK on a monthly basis when coating has occurred. The permittee shall keep records of the monthly inspections and maintenance activity to ensure proper operation of exhaust filters and carbon adsorption units.² **(R 336.1702(d), R 336.1205, R 336.1901, R 336.1225)**
2. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept.² **(R 336.1702(d), R 336.1205, R 336.1901, R 336.1225)**
 - a. The hours of operation, monthly records.
 - b. The quantity of materials used and the VOC content as applied, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.
 - c. The material identification.
 - d. The mixing ratio of coating and reducer, daily records unless all coatings VOC content when mixed with reducers is less than the limit in SC I.3, then monthly records may be kept.
 - e. VOC emission: Daily/Monthly calculation (see VI.2(b) above) record of VOC emission rates (lbs./hr., tons/yr. based upon a 12-month rolling time period, lbs./gal. (minus water as applied) according to the Method outlined in Appendix 7, or an alternative method approved by DNRE-AQD.

See Appendix 7

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

EUTRIMBOILER **EMISSION UNIT CONDITIONS**

DESCRIPTION

A 37 million BTU heat input per hour (Clever Brooks) natural gas only boiler, equipped with low NOx burners.

Flexible Group ID: FGBOILERMACHHWG, FGPSWEST/NEWEAST

POLLUTION CONTROL EQUIPMENT

Low NOx burner

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only natural gas in EUTRIMBOILER. . (R 336.1225, R 336.1702(a))

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum design heat input capacity for EUTRIMBOILER shall not exceed 37 MMBTU/hr on a fuel heat input basis. (R 336.1225, 40 CFR 52.21(c) & (d))

2. The permittee shall not operate EUTRIMBOILER unless low NOx burners are installed, maintained, and operated in a satisfactory manner. (R 336.1910, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

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. (R 336.1205(1)(a) & (b), R 336.1225, R 336.1702)

2. The permittee shall keep monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis, and a 12-month rolling time period basis. The records must indicate the total amount of natural gas used in EUTRIMBOILER. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(1)(a) & (b), 40 CFR 60.48c(g))

3. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions. This information shall include, but shall not be limited to the following:

a) Monitoring data.

b) Verification of heat input capacity required to show compliance with SC IV.1.

- c) Identification, type, and the amounts of fuel combusted in EUTRIMBOILER on a calendar month basis.
- d) All records required by 40 CFR 60.7 and 40 CFR 60.48c.

All of the above information shall be stored in a format acceptable to the AQD and shall be consistent with the requirements of 40 CFR 60.7(f). (R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 60.7(f))

VII. REPORTING

- 1. ~~The permittee shall provide written notification of the date construction commences and actual startup of EUTRIMBOILER, in accordance with 40 CFR 60.7 and 40 CFR 60.48c. The notification shall include the design heat input, an identification of the fuels to be combusted and the annual capacity factor for EUTRIMBOILER. The permittee shall submit this notification to the AQD District Supervisor within the time frames specified in 40 CFR 60.7. (40 CFR 60.7, 40 CFR 60.48c)~~

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVTRMBOI	32	65	R 336.1225, 40 CFR 52.21(c) & (d)

VIII. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to EUTRIMBOILER. (40 CFR Part 60, Subparts A & Dc)

Footnotes:

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

D. FLEXIBLE GROUP CONDITIONS

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

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

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-TOPCOAT FGTOPCOATEAST	<p>Formerly FG-TOPCOAT: Two topcoat lines (EU-COLOR-ONE & EU-REPROCESS & EU-COLOR-TWO) and one high bake repair operation (EU-REPROCESS), which is a part of the topcoat system. Each topcoat line consists of spray booths for applying topcoat to vehicle bodies and oven for curing. Reprocess is a high back repair operation that consist of spray booths for topcoat application to repair vehicle bodies, and an oven for curing. Reprocess is high-bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. While Color1 (36 JPH) and Color2 (36 JPH) lines are identical topcoat lines (72 JPH), reprocess line is shorter and slower.</p>	<p>EU-COLOR-ONE EU-REPROCESS EU-COLOR-TWO EU-REPROCESS (high bake repair)</p>
FGCONTROLS	<p>Concentrators and RTOs used for control of VOC emissions as applicable from the paint spray booths, noted flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and sanding/repair booths and as pre-filtration to VOC control devices.</p>	<p>EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGE CLEANWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EU-COLOR-ONE, EU-REPROCESS EU-REPROCESS, EUPURGE CLEAN EAST, EUSPOTREPAIREAST, EUFINALREPAIR, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2</p>
FGSPOTPRIMEWEST	<p>Two spot prime processes in the west paint shop. One that is placed after the Ecoat process and prior to the primer application process, and one that is located after the primer process and prior to topcoat application.</p>	<p>EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2</p>

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGRTOWEST	This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the west paint shop concentrator and west RTO.	EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST
FGRTOEAST	This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the east paint shop concentrator and RTO associated with EUECOATEAST, EUPURGECLEANEAST, and the refurbished spray booth portion of EU-COLOR-ONE	EUECOATEAST, EU-COLOR-ONE, EU-PURGECLEANEAST
FG-TEMPBOILERS	Two natural gas fired boilers. These are trailer-mounted temporary boilers installed since 2009 and mostly used in non-heating season (summer). Although capable of being moved, the boilers have been located at the plant for at least two years (as of March 2016). AQD received both NSPS Dc (April 30, 2007) and Major Source Boiler MACT 5D (May 24, 2013) notifications.	EU-TEMPBOILER1 EU-TEMPBOILER2
FG-BOILERS	Four (4) natural gas fired boilers to produce steam and heat. Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.	EU-BOILER3 EU-BOILER4 EU-BOILER5 EU-BOILER6 EUBOILER3, EUBOILER4, EUBOILER5, EUBOILER6
FG-GASOLINE-TANKS	Three unleaded gasoline storage tanks.	EU-UNLEADEDGAS1
FGTANKS	Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.	EU—UNLEADEDGAS1, EUMETANK, EUDIESELTANK1, EUANTIFREEZETANK, EUBRAKEFLUIDTANK, EUAUTOTRANS, EUDIESELEXTANK, EUGASTANK2, EUDIESELTANK2, EUPURSOLVTANK, EUDIESELTANK3
FG-RULE-331	Wood saws, lathes, etc.	EU-CARPENTERSHOP
FG-PM-MISC	This group consists of various emission units that have the same particulate requirements.	EU-COLOR-ONE-SAND EU-POLISH-DECK EU-REPROCESS-SAND EU-REPROCESS-SAND EU-REPRO-POLISH EU-UNIPRIME-SAND

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-AUTOMACT	<p>FG-AUTOMACT: Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment.</p>	<p>EU-UNIPRIME EU-SOLVENT-WIPE EU-SEALERS&ADHESIVE EU-BLACKOUT-BOOTH EU-FINAL-REPAIR EU-SPOT-REPAIR-DECK EU-TUTONE EU-COLOR-ONE EU-COLOR-TWO EU-REPROCESS EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUSEALERS, EU-COLOR-ONE, EU-COLOR-TWO, EU-REPROCESS, EU-REPROCESS EU-TUTONE, EUSPOTREPAIRWEST1, EUSPOTREPAIRWEST2</p>
FG-OLDMACT	<p>The affected source is each new, reconstructed, or existing Organic Liquid Distribution (OLD) (non-gasoline) operation that is located at, or is part of a major source of hazardous air pollutant (HAP) emissions. The affected source is comprised of storage tanks, transfer racks, equipment leak components associated with storage tanks, transfer racks and pipelines, transport vehicles, and all containers while loading or unloading at transfer racks subject to this subpart. Equipment that is part of an affected source under another NESHAP is excluded from the affected source.</p>	<p>EUMETANK</p>
FG-BOILER-MACT5D	<p>Requirements for existing Gas 1, (Natural Gas only) for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers or process heaters must comply with this subpart no later than January 31, 2016, except as provided in 40 CFR 63.6(i).</p>	<p>EU-TEMPBOILER1 EU-TEMPBOILER2 EU-BOILER3 EU-BOILER4 EU-BOILER5 EU-BOILER6</p>

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGBOILERMACTHWG	This FG is for the thirteen hot water generators associated with the installation of the west paint shop and modernization of the east paint shop. Gas 1 Fuel Subcategory requirements for new Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These new boilers or process heaters must comply the applicable provisions of this subpart upon startup.	EUHWG1 , EUHWG2 , EUHWG3 , EUHWG3 , EUHWG4 , EUHWG5 , EUHWG6 , EUHWG7 , EUHWG8 , EUHWG9 , EUHWG10 , EUDSBCHWG , EUDSSBHWG , EUDSCCHWG
FGNGWEST	All natural gas-fired equipment associated with the installation of west paint shop portion of the Warren Truck Assembly Plant, except the emergency generator, including ten eight hot water generators, air supply houses, space heaters, heated flash, cure ovens, the carbon concentrator, and the RTO. In addition, this FG includes new air supply houses and space heating in the assembly area.	EUPRETREATWEST , EUECOATWEST , EUPRIMERWEST , EUTOPCOATWEST , EUNEWNGASSEMBLY , EUHWG1 , EUHWG2 , EUHWG3 , EUHWG4 , EUHWG5 , EUHWG6 , EUHWG7 , EUHWG8 , EUHWG9 , EUHWG10
FGNEWNGEAST	All new natural new gas-fired equipment associated with the refurbishment of east paint shop portion of the Warren Truck Assembly Plant, including hot water generators, air supply houses, space heaters, cure ovens, the carbon concentrator, and the RTO.	EUECOATEAST , EU-COLOR-ONE , EUDSBCHWG , EUDSSBHWG , EUDSCCHWG , EUNEWNGPSEAST
FGNGEMENG	Emergency engines subject to 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines greater than 500 HP constructed on or after January 1, 2009	EUNGGEN1 , EUNGGEN2 , EUNGGEN3
FG-CI-RICE-MACT4Z<500HP	Existing CI Engines located at a Major Source <500 HP, Emergency	EU-ENG-FPH1
FG-CI-RICE-MACT4Z>500HP	Existing CI Engines located at a Major Source >500 HP, Emergency	EU-ENG-SMB1 EU-ENG-SMB2
FG-CI-RICE-MACT4Z<500HP	Existing CI Engines located at a Major Source < 500 HP, Emergency.	EU-ENG-FPH1
FG-CI-RICE-MACT4Z>500HP	Existing CI Engines located at a Major Source > 500 HP, Emergency.	EU-ENG-SMB1 EU-ENG-SMB2
FG-CI-RICE-NSPS4I<500	This flexible group includes new emergency compression ignition (CI) Diesel fired stationary reciprocating internal combustion engines (RICE) that have a maximum site rating of greater than or equal to 100 brake horsepower (HP), but less than 500 (HP) and subject to 40 CFR 60, Subpart IIII.	EU-ENG-FPH2 (305 HP, 01/01/2011, Fire Pump emergency engine)

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGPSWEST/NEWEAS I	All process equipment associated with the installation of the west paint shop and modernization of the east paint shop, body shop, and final assembly.	EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYVVIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSEALERS, EUSPOTREPAIREAST, EUFINALREPAIR, EUFLUIDFILL, EU-COLOR-ONE, EU-REPROCESS, EU-REPROCESS EU-TUTONE, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9, EUHWG10, EUDSBCHWG, EUDSSBHWG, EUDSSCHWG, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUNGGEN1, EUNGGEN2, EUNGGEN3
FG-COLD-CLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278 and Rule 281(h) or Rule 285(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.	
FG-RULE-290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	
FG-RULE-287(c)	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 287(c).	
FGFACILITY	All process equipment including equipment covered by other permits, grand-fathered equipment and exempt equipment	

FG-TOPCOATEAST
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

~~FG-TOPCOATEAST: Two topcoat lines (EU-COLOR-ONE and high bake repair operation (EU-REPROCESS) & EU-COLOR-TWO) and one high bake repair operation (EU-REPROCESS), which is a part of the topcoat system. Each This topcoat line consists of spray booths s for applying topcoat to vehicle bodies and oven for curing. Reprocess is high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and an oven for curing. Reprocess is high bake repair operation that consists of spray booths for topcoat application to repair vehicle bodies and oven for curing. While Color1 (36 JPH) and Color2 (36 JPH) lines are identical topcoat lines (72 JPH), reprocess line is shorter and slower.~~

Emission Units: EU-COLOR-ONE, EU-REPROCESS ~~EU-COLOR-TWO, EU-REPROCESS~~

POLLUTION CONTROL EQUIPMENT

- ~~1. Color1: Downdraft Water Wash System for the spray booths of EU-COLOR-ONE~~
- ~~2. Color1: Thermal Oxidizer for bake oven of EU-COLOR-ONE~~
- ~~3. Color2: Downdraft Water Wash System for the spray booths of EU-COLOR-TWO~~
- ~~4. Color2: Thermal Oxidizer for bake oven of EU-COLOR-TWO~~
- ~~5. Reprocess: Downdraft Water Wash System for the spray booths of EU-REPROCESS~~
- ~~6. Reprocess: Thermal Oxidizer for bake oven of EU-REPROCESS~~

~~Downdraft water wash system for the spray booths of EU-COLOR-ONE and EU-REPROCESS. A thermal oxidizer for bake oven of EU-COLOR-ONE. Downdraft water wash system for the spray booths of EU-REPROCESS. A thermal oxidizer for bake oven of EU-REPROCESS. A thermal oxidizer for bake oven of EU-REPROCESS. The east concentrator and east RTO control the spray booth portions of EU-COLOR-ONE after installation.~~

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	1.47 ² ^θ kg per liter of applied coating solids (12.3 lbs./GACS)	Calendar month average	FG-TOPCOAT <u>EAST</u>	SC V.4 2 , VI.4 3 , VI.6 5	R 336.1702(a) 40 CFR 60 Subpart MM
2. VOG	270.2 pph 8.D 270.2²B Pounds per hour	Per hour operated in a calendar month	Spray booths of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO)	SC VI.4, SC VI.5GC 13 SC V.1, VI.6, VI.7	R 336.2902 (formerly, R 336.1220)
3. VOG	582.11 tpy D 582.11² Tons per year	12-month rolling time period as determined at the end of each calendar month	Spray booths of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO)	SC V.1, VI.7 5	R 336.2902 (formerly, R 336.1220)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
4. <u>VOG</u> 4. <u>VOG</u>	<u>6.8 pph</u> ^β Pounds per hour <u>6.8 pph</u>	Per hour operated in a calendar month Per hour operated in a calendar month	Bake Ovens of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO) Bake Ovens EU-COLOR-ONE	SC V.3, SC V.4, SC VI.3, SC VI.4, SC VI.5 GC 13 SC V.1, VI.6, VI.7 SC V.3, SC V.4, SC VI.3, SC VI.4, SC VI.5, GC 13, SC V.1, VI.6, VI.7	R 336.2902 (formerly, R 336.1220) R336.2902
5. <u>VOG</u> 5.6. <u>VOG</u>	<u>15.67 tpy</u> ^β Tons per year <u>15.67 TYPY</u>	12-month rolling time period as determined at the end of each calendar month 12 month rolling time period as determined at the end of each month	Bake Ovens of each topcoat line (EU-COLOR-ONE, EU-COLOR-TWO) Bake Ovens EU-COLOR-ONE	SC V.1, VI.75 SC V.1, VI.7	R 336.2902 (formerly, R 336.1220) R336.2902
6.7. <u>VOG</u>	<u>89.9 pph</u> ^β Pounds per hour	Per hour operated in a calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC VI.4, SC VI.5 GC 13 SC V.1, VI.6, VI.7	R 336.2902 (formerly, R 336.1220)
7.8. <u>VOG</u>	<u>193.74 tpy</u> ^β Tons per year	12-month rolling time period as determined at the end of each calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC V.1, VI.75	R 336.2902 (formerly, R 336.1220)
9. <u>VOG</u> 9. <u>VOG</u>	<u>2.3 pph</u> ^β Pounds per hour <u>2.3 pph</u>	Per hour operated in a calendar month Per hour operated in a calendar month	High Bake Repair bake oven (EU-REPROCESS) EU-REPROCESS	SC VI.4, SC VI.5 GC 13 SC V.1, VI.6, VI.7 SC VI.4, VI.5, GC 13, SC V.1, VI.6, VI.7	R 336.2902 (formerly, R 336.1220) R 336.2902
11. <u>VOG</u> 11. <u>VOG</u>	<u>5.22 tpy</u> ^β Tons per year <u>5.22 tpy</u>	12-month rolling time period as determined at the end of each calendar month 12 month rolling time period as determined at the end of each month	High Bake Repair bake oven (EU-REPROCESS) EU-REPROCESS	SC V.1, VI.75 SC V.1, VI.75	R 336.2902 (formerly, R 336.1220) R 336.2902
13. <u>VOGs</u> 14. <u>VOGs</u>	<u>45.0 pph</u> ^{β,c} <u>45.0 pph</u>	Per hour operated in a calendar month pph in a calendar month	High Bake Repair spray booths (EU-REPROCESS)	SC VI.3, SC VI.4, SC VI.5 SC VI.3, VI.4, VI.5	R 336.2908 336.2908
15. <u>VOGs</u> 16. <u>VOGs</u>	<u>40.0 tpy</u> ^c <u>40.0 tpy</u>	12-month rolling time period as determined at the end of each calendar month 12-month rolling time period as determined at the end of each calendar month.	High Bake Repair spray booths (EU-REPROCESS) EU-REPROCESS	SC V.1, SC VI.7 SC V.1 SC V.1.7	R 336.2908 336.2908

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
17. VOCs	193.0 tpy ^C	12-month rolling time period as determined at the end of each calendar month	Spray booths of EU-COLOR-ONE	SC VI.5	R 336.2908
18. VOCs	270.2 pph ^{B,E}	Per hour operated in a calendar month	Spray booths of EU-COLOR-TWO	SC VI.4, SC VI.5	R 336.2902 (formerly, R 336.1220)
19. VOCs	430.0 tpy ^F	12-month rolling time period as determined at the end of each calendar month	Spray booths of EU-COLOR-TWO	SC VI.5	R 336.2908
20. VOCs	3.53 lb/GACS ^{G,H}	Calendar month average	EU-COLOR-ONE (spray booths and oven)	SC VI.3, SC VI.5	R 336.1702(a), R 336.2908, 40 CFR 60 Subpart MM
21. VOCs	201.6 tpy ^H	12-month rolling time period as determined at the end of each calendar month	EU-COLOR-ONE (spray booths and oven)	SC VI.5	R 336.1702(a), R 336.2908
22. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^{G,I}	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1331
23. PM	0.0029 lbs per 1,000 lbs of exhaust gas ^{G,I}	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1331
24. PM10	0.218 pph ^I	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1205(1)(a) & (1)(b), 40 CFR 52.21 (c) & (d)
25. PM10	0.173 pph ^I	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1205(1)(a) & (1)(b), 40 CFR 52.21 (c) & (d)
26. PM2.5	0.218 pph ^I	Hourly	EU-COLOR-ONE (base coat observation zone)	SC V.4	R 336.1205(1)(a) & (1)(b), 40 CFR 52.21 (c) & (d)
27. PM2.5	0.173 pph ^I	Hourly	EU-COLOR-ONE (clear coat observation zone)	SC V.4	R 336.1205(1)(a) & (1)(b), 40 CFR 52.21 (c) & (d)

^BPer the EPA Protocol (VI(4) & (5))

^BBased upon monthly values using methods acceptable to AQD.

^CThis emission limit shall become applicable based on the requirements in SC IX.2.

^DThis emission limit shall be applicable until the requirements in SC IX.3 are met and SCs I.10, I.11, I.12, I.14 become applicable.

^EThis emission limit shall be applicable until the permanent shut down of EU-COLOR-TWO as required by SC IX.5.

^FThis emission limit shall become applicable based on the requirements in SC IX.2 and shall be applicable until the permanent shut down of EU-COLOR-TWO as required by SC IX.5.

^GCalculated on a wet gas basis.

^HThis emission limit shall be applicable upon startup of any emission unit in the West Paint Shop.

^IThis emission limit shall be applicable upon startup of the refurbished EU-COLOR-ONE after control equipment has been installed.

GACS = Gallon of applied coating solids

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- ~~The permittee shall not operate FG TOPCOAT unless the associated thermal oxidizers are installed and operating properly. Proper operation means to maintain a minimum temperature of 1337 °F (725 °C) or the temperature through the most recent test that demonstrated the equivalent destruction efficiency and has been accepted by the AQD District Supervisor.² (R 336.1910, 40 CFR 64.6(c)(1)(i),(ii))~~
- ~~The permittee shall not operate FG TOPCOAT unless the associated water wash systems are installed and operating properly.² (R 336.1910)~~

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

- The permittee shall not operate the bake oven portions of FGTOPCOATEAST unless the respective associated thermal oxidizer is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer(s) includes maintaining a minimum oxidizer combustion chamber temperature at the temperature determined during the most recent control device performance test which demonstrated compliance with a minimum of 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1910)
- The permittee shall not operate FGTOPCOATEAST unless the associated water wash systems are installed and operating properly. Satisfactory operation of the water wash system includes conducting the required monitoring and recordkeeping pursuant to SC VI.3. (R 336.1910)
- ~~Upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack, the~~The permittee shall not operate the spray booth portions of EU-COLOR-ONE unless the east concentrator and east RTO portions of FGCONTROLS are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the east concentrator includes maintaining a minimum desorption gas inlet temperature at the manufacturer’s recommended temperature until an acceptable performance test has been performed, after which the desorption gas inlet temperature shall be maintained within 15 degrees of the most recent acceptable performance test and can be based upon a three-hour average. Satisfactory operation of the east RTO includes maintaining a minimum RTO combustion chamber temperature at the manufacturer’s recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at or above the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.2908(3))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.4213(3)(b)(ii)1201(3))

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

AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. ~~(R-336.2001, R-336.2003 & R-336.2004)~~**(R 336.2004, R 336.2040, R 336.2041)**

2. Verification of the Transfer Efficiency (TE) rates of the each topcoat line (TE test on one of the identical lines is sufficient if the permittee can demonstrate that the topcoat lines are identical) by testing, at owners expense, is required according to the following schedule:
 - a. Within 180 days of issuance of this permit if an acceptable Transfer Efficiency (TE) test has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.
 - b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the transfer efficiency, as required by the EPA Protocol.

Verification of the Transfer Efficiency (TE) rate includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than 30 days prior to testing, a complete testing plan must be submitted to AQD. The final plan must be approved by AQD prior to testing. Not less than seven days before any test are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. ~~(R-336.1213(3),~~**(R 336.2001(3))**

3. Verification of Oven Exhaust Control Device VOC Loading rates of each Topcoat line (OECD loading test on one of the identical lines is sufficient if the permittee can demonstrate that the topcoat lines are identical) and high bake repair operation by testing, at owner expense, is required according to the following schedule:
 - a. Within 180 days of issuance of this permit if an Oven Exhaust Control Device VOC Loading test has not been conducted within five years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.
 - b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Oven Exhaust Control Device VOC Loading rates.

Verification of Oven Exhaust Control Device VOC Loading rates includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. ~~(R-336.1213(3),~~**R 336.2001(3))**

4. Verification of Destruction Efficiency (DE) of the Thermal Oxidizer for the associated oven of each topcoat line and high bake repair operation by testing, at owner expense, is required according to the following schedule:
 - a. Within 180 days of issuance of this permit if Destruction Efficiency (DE) test of the Thermal Oxidizer for the oven has not been conducted within 5 years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative, and at least once during the term.
 - b. Within 180 days of making any changes in operating conditions which necessitate reevaluation of the Destruction Efficiency (DE) of the Thermal Oxidizer.

Verification of Destruction Efficiency (DE) of the Thermal Oxidizer for the oven includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than seven days before any tests are conducted, the permittee shall notify AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. ~~(R-336.1213(3),~~**R 336.2001(3))**

5. Within 365 days of commencing operation of control equipment, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of the spray booth, flash-off area, observation zone, and oven portions of EU-COLOR-ONE to the east concentrator and east RTO, by testing at owner's expense, in accordance with Department requirements, and the U.S. EPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A and 40 CFR 63 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)
6. Within 365 days of commencing operation of control equipment, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the east concentrator and destruction efficiency of the east RTO in the spray booth portion of EU-COLOR-ONE by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii)1201(3))

- ~~1. The permittee shall install, calibrate (in accordance with manufacturer's recommendation), and maintain measurement and recording devices to monitor each thermal oxidizer temperature. A temperature measurement device shall have an accuracy of greater than ± 0.75 percent of the temperature being measured expressed in degree Celsius or ± 2.5 °C. The temperature measurement device shall be equipped with recording device so that permanent, continuous record of the thermal oxidizer temperature is produced.² (R 336.1201(3) & 40 CFR Part 60 Subpart MM 60.394, 40 CFR 64.6(c)(1)(i),(ii))~~
- ~~2. The permittee shall conduct visual inspections of the water wash system on a weekly basis during weeks while production is occurring.² (R 336.1201(3))~~
- ~~3. The temperature monitor of the thermal oxidizer shall be placed in the firebox or in the duct immediately downstream of the firebox before any substantial heat exchange occurs. (R 336.1213(3), 40 CFR 64.6(c)(1)(i),(ii))~~
- ~~4. Records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in accordance with the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light duty Truck Topcoat Operations", EPA-453/R-08-002, or as amended (The EPA Protocol): (R 336.1213(3))~~
- ~~a. For each type of coating used during the calendar month:~~
- ~~i. Coating identification;~~
 - ~~ii. Analytical VOC content as determined by EPA Reference Test Method 24;~~
 - ~~iii. Formulation VOC and volume solids content;~~
 - ~~iv. Coating usage (daily or monthly), including withdrawals; and~~
 - ~~v. Dilution solvent usage and density.~~

- b. ~~Number of vehicles coated per production day by body style, coating color, and square footage coated (or equivalent unit), unless daily coating records are kept.~~
 - c. ~~Transfer Efficiency (TE):
 - i. ~~Value(s) used in protocol calculations;~~
 - ii. ~~Value(s) from most recent test; and~~
 - iii. ~~Annual review of operating conditions to demonstrate that the transfer efficiency remains valid.~~~~
 - d. ~~Oven exhaust control device VOC loading (booth/oven split).
 - i. ~~Value(s) used in protocol calculations;~~
 - ii. ~~Value(s) from most recent test; and~~
 - iii. ~~Annual review of operating conditions to demonstrated that the oven exhaust control device VOC loading remains valid.~~~~
 - e. ~~Destruction Efficiency (DE) of the control device;
 - i. ~~Value(s) used in protocol calculations; and~~
 - ii. ~~Value(s) derived from most recent test.~~~~
5. ~~Records of the VOC emission rate (pounds of VOC per gallon of applied coating solids) for each production day, which shall be determined by using the EPA Protocol. (R 336.1213(3))~~
6. ~~Plant production hours: Monthly records. (R 336.1213(3))~~
7. ~~Records of the VOC mass emission rates (pounds per hour, tons per month, and tons per 12-month rolling time period) shall be calculated according to the method in Appendix 7 or an alternative method that is acceptable to AQD. (R 336.1213(3))~~
8. ~~Weekly records of the condition of water wash system and records of the date of maintenance/repairs. (R 336.1213(3))~~
9. ~~Calibration records of the temperature measurement devices. (R 336.1213(3))~~
10. ~~For each control device in operation during production (coating vehicles, etc.), if such bypass can occur based upon on the design of the pollutant specific emission unit, 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 the bypass line that was open and the length of time the bypass was open shall be kept on file. (40 CFR 64.3(a)(2))~~
11. ~~The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) plan for FG-TOPCOAT. The CAM O&M plan shall at a minimum contain the elements outlined in Appendix 3. The plan shall be updated as necessary to reflect changes in monitoring, to implement corrective actions and to address malfunctions. Changes in the CAM portion of the operations and maintenance plan shall be submitted to the district supervisor for review and approval. All records and activities associated with the O&M shall be kept on file for a period of at least five years and made available to the department upon request. (40 CFR 64.6(c)(1)(i),(ii), 40 CFR 64.7(e))~~
12. ~~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(e))~~

13. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**
14. 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))**
15. The permittee shall properly maintain the monitoring system including keeping necessary parts for routine repairs of the monitoring equipment. **(40 CFR 64.7(b))**

See Appendices 3 and 7

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)**
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 used in FGTOPCOATEAST. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**
4. The permittee shall install, calibrate (in accordance with manufacturer's recommendation), and maintain measurement and recording devices to monitor each thermal oxidizer temperature. A temperature measurement device shall have an accuracy of greater than ± 0.75 percent of the temperature being measured expressed in degree Celsius or ± 2.5 °C. The temperature measurement device shall be equipped with recording device so that permanent, continuous record of the thermal oxidizer temperature is produced. **(R 336.1201(3) & 40 CFR Part 60 Subpart MM 60.394)**
5. Records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in accordance with the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations," EPA-453/R-08-002, or as amended (The EPA Protocol): **(R 336.2902, R 336.2908)**
 - a) For each type of coating used during the calendar month:
 - i. Coating identification.
 - ii. Analytical VOC content as determined by EPA Reference Test Method 24.
 - iii. Formulation VOC and volume solids content.
 - iv. Coating usage (daily or monthly), including withdrawals.
 - v. Dilution solvent usage and density.
 - b) Number of vehicles coated per production day by body style, coating color, and square footage coated (or equivalent unit), unless daily coating records are kept.
 - c) Transfer Efficiency (TE):
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) from most recent test.

- iii. Annual review of operating conditions to demonstrate that the transfer efficiency remains valid.
 - d) Oven exhaust control device VOC loading (booth/oven split):
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) from most recent test.
 - iii. Annual review of operating conditions to demonstrated that the oven exhaust control device VOC loading remains valid.
 - e) Destruction Efficiency (DE)of the control devices:
 - i. Value(s) used in protocol calculations.
 - ii. Value(s) derived from most recent test.
6. Plant production hours: Monthly records. (R 336.2902, R 336.2908)
7. Records of the VOC mass emission rates (pounds per hour, tons per month, and tons per 12-month rolling time period) shall be calculated according to the method in Appendix 7 or an alternative method that is acceptable to AQD. (R 336.2902, R 336.2908)
8. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for the RTO in the spray booth portions of EU-COLOR-ONE, and the thermal oxidizer in the bake oven portions of EU-COLOR-ONE, ~~EU-COLOR-TWO, and EU-REPROCESS,~~ to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. (R 336.1910, R 336.2908(3))
9. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, temperature monitoring devices for the concentrator in the spray booth portions of EU-COLOR-ONE to monitor and record the desorption gas inlet temperature on a continuous basis during operation. Gas temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. (R 336.1910, R 336.2908(3))
10. The permittee shall maintain records of maintenance and repair activities for FGTOPCOATEAST. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. (R 336.1910)
11. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 52.21(c) and (d))
12. For the RTO and concentrator portions of EU-COLOR-ONE, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. (R 336.1702, R 336.1910, R 336.2908)
13. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the concentrator and RTO control devices used to demonstrate compliance with the applicable VOC emission limits: (R 336.1910, R 336.1911)
 - a. Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation. (Both RTO and concentrator).
 - b. Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months for the RTO.
 - c. Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months for the RTO.

- d. Perform quarterly pressure drop readings across the concentrator.

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

VII. REPORTING

1. ~~Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
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. ~~Quarterly reporting of the emissions data with an acceptable format to AQD. Due within 30 days of the end of the quarter in which the data were collected. (R 336.1213(3), NSPS 40 CFR, Part 60 Subparts A & MM)~~
5. ~~Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions or exceedances, as applicable and the corrective actions taken. If there were no excursions or exceedances in the reporting period, then this report shall include a statement that there were no excursions 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)(iii))~~

See Appendix 8

1. Quarterly reporting of the emissions data with an acceptable format to AQD. Due within 30 days of the end of the quarter in which the data were collected. (NSPS 40 CFR 60 Subpart A & MM)
- ~~Quarterly reporting of the emissions data with an acceptable format to AQD. Due within 30 days of the end of the quarter in which the data were collected. (NSPS 40 CFR, Part 60 Subparts A & MM)~~
- ~~The permittee shall send written notification to the AQD District Supervisor within 30 days of the start of production of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. (R 336.1201(7))~~
- ~~The permittee shall send written notification to the AQD District Supervisor within 30 days of temporarily shutting down EU-COLOR-ONE for repair operations and installation of control equipment. (R 336.1201(7))~~
- ~~The permittee shall send written notification to the AQD District Supervisor within 30 days of commencing operation of control equipment on EU-COLOR-ONE. (R 336.1201(7))~~
- ~~The permittee shall send written notification to the AQD District Supervisor within 30 days of permanently shutting down EU-COLOR-TWO. (R 336.1201(7))~~

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
<u>1. SVBC1OBEAST14-SVSMB-G-03-01</u>	<u>41</u> NA	<u>106</u> 42 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>2. SVBC1OBEAST22-SVSMB-G-03-01</u>	<u>41</u> NA	<u>106</u> 42 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>3. SVBC1OBEAST33-SVSMB-G-03-01</u>	<u>41</u> NA	<u>106</u> 42 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>4. SVCC1OBEAST14-SVSMB-G-03-01</u>	<u>34</u> NA	<u>106</u> 42 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>5. SVCC1OBEAST25-SVSMB-G-10-01</u>	<u>33</u> NA	<u>106</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>6. SVBTHCONCEAST6-SVSMB-G-12-01</u>	<u>60</u> NA	<u>106</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>7. SVRTOEAST7-SVSMB-G-13-C1-01</u>	<u>60</u> NA	<u>114</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>8. SVEXC1INC8-SVSMB-G-13-C1-02</u>	<u>36</u> NA	<u>95</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>9. SVHIBKTO9-SVSMB-G-13-C1-03</u>	<u>36</u> NA	<u>90</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>10. SVHIBKBTH10-SVSMB-G-13-C1-04</u>	<u>41</u> NA	<u>106</u> 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>11. SVSMB-G-03-01-c11-SVSMB-G-14-C1-01</u>	<u>NANA</u>	<u>42</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>12. SVSMB-G-03-01-c12-SVSMB-G-14-C1-02</u>	<u>NANA</u>	<u>42</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>13. SVSMB-G-03-01-c13-SVSMB-G-14-C1-03</u>	<u>NANA</u>	<u>42</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>14. SVSMB-G-03-01-c14-SVSMB-G-14-C1-04</u>	<u>NANA</u>	<u>42</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>15. SVSMB-G-10-01-c15-SVSMB-G-15-C1-01</u>	<u>NANA</u>	<u>405</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>16. SVSMB-G-12-01-c16-SVSMB-G-15-C1-02</u>	<u>NANA</u>	<u>405</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901
<u>17. SVSMB-G-13-C1-01-p17-SVSMB-G-15-C1-03</u>	<u>NANA</u>	<u>405</u> ⁺ 405 ⁺	R 336.1225, <u>40 CFR 52.21(c) & (d)</u> R 336.1901

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
18. SVSMB-G-13-C1-02 p18. SVSMB-G-15-C1-01	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
19. SVSMB-G-13-C1-03 p19. SVSMB-G-16-C1-02	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
20. SVSMB-G-13-C1-04 p20. SVSMB-G-16-C1-03	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
21. SVSMB-G-14-C1-01 p21. SVSMB-G-16-C1-04	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
22. SVSMB-G-14-C1-02 p22. SVSMB-G-17-C1-01	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
23. SVSMB-G-14-C1-03 p23. SVSMB-G-17-C1-02	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
24. SVSMB-G-14-C1-04 p24. SVSMB-G-17-C1-03	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
25. SVSMB-G-15-C1-01 p25. SVSMB-G-17-C1-04	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
26. SVSMB-G-15-C1-02 p26. SVSMB-G-18-C1-01	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
27. SVSMB-G-15-C1-03 p27. SVSMB-G-18-C1-02	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
28. SVSMB-G-15-C1-01 p28. SVSMB-G-18-C1-03	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
29. SVSMB-G-16-C1-02 p29. SVSMB-G-19-C1-01	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
30. SVSMB-G-16-C1-03 p30. SVSMB-G-19-C1-02	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
31. SVSMB-G-16-C1-04 p31. SVSMB-G-19-C1-03	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
32. SVSMB-G-17-C1-01 p32. SVSMB-G-19-C1-04	<u>NANA</u>	<u>105⁺105⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
33. SVSMB-G-17-C1-02 p33. SVSMB-H-02-01	<u>NANA</u>	<u>105⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
34. SVSMB-G-17-C1-03 p34. SVSMB-H-03-01	<u>NANA</u>	<u>105⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
35. SVSMB-G-17-C1-04 p35. SVSMB-H-03-02	<u>NANA</u>	<u>105⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
36. SVSMB-G-18-C1-01 p36. SVSMB-H-08-02	<u>NANA</u>	<u>105⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
37. SVSMB-G-18-C1-02 p37. SVSMB-H-10-02	<u>NANA</u>	<u>105⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
38. SVSMB-G-18-C1-03 p38. SVSMB-H-12-02	<u>NANA</u>	<u>105⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
39. SVSMB-G-19-C1-01 p39. SVSMB-H-14-C2-01	<u>NANA</u>	<u>105⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
40. SVSMB-G-19-C1-02 p40. SVSMB-H-14-C2-02	<u>NANA</u>	<u>105⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
41. SVSMB-G-19-C1-03 p41. SVSMB-H-14-C2-03	<u>NANA</u>	<u>105⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
42. SVSMB-G-19-C1-04 p42. SVSMB-H-14-C2-04	<u>NANA</u>	<u>105⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
43. SVSMB-H-02-01 ^E 43. SVSMB-H-15-C2-01	<u>NANA</u>	<u>42⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
44. SVSMB-H-03-01 ^E 44. SVSMB-H-15-C2-02	<u>NANA</u>	<u>42⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
45. SVSMB-H-03-02 ^E 45. SVSMB-H-15-C2-03	<u>NANA</u>	<u>42⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
46. SVSMB-H-08-02 ^E 46. SVSMB-H-16-C2-01	<u>NANA</u>	<u>42⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
47. SVSMB-H-10-02 ^E 47. SVSMB-H-16-C2-02	<u>NANA</u>	<u>42⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
48. SVSMB-H-12-02 ^E 48. SVSMB-H-16-C2-03	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
49. SVSMB-H-14-C2-01 e49. SVSMB-H-16-C2-04	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
50. SVSMB-H-14-C2-02 e50. SVSMB-H-17-C2-01	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
51. SVSMB-H-14-C2-03 e51. SVSMB-H-17-C2-02	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
<u>52. SVSMB-H-14-C2-04</u> 52. SVSMB-H-17-C2-03	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>53. SVSMB-H-15-C2-01</u> 53. SVSMB-H-17-C2-04	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>54. SVSMB-H-15-C2-02</u> 54. SVSMB-H-18-C2-01	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>55. SVSMB-H-15-C2-03</u> 55. SVSMB-H-18-C2-02	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>56. SVSMB-H-16-C2-01</u> 56. SVSMB-H-18-C2-03	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>57. SVSMB-H-16-C2-02</u> 57. SVSMB-H-19-C2-01	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>58. SVSMB-H-16-C2-03</u> 58. SVSMB-H-19-C2-02	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>59. SVSMB-H-16-C2-04</u> 59. SVSMB-H-19-C2-03	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>60. SVSMB-H-17-C2-01</u> 60. SVSMB-H-19-C2-04	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>61. SVSMB-H-17-C2-02</u> 61. SVSMB-H-20-C2-01	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>62. SVSMB-H-17-C2-03</u> 62. SVSMB-H-20-C2-02	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>63. SVSMB-H-17-C2-04</u> 63. SVSMB-J-02-01	<u>NANA</u>	<u>90⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>64. SVSMB-H-18-C2-01</u> 64. SVSMB-J-03-01	<u>NANA</u>	<u>90⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>65. SVSMB-H-18-C2-02</u> 65. SVSMB-J-03-02	<u>NANA</u>	<u>90⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>66. SVSMB-H-18-C2-03</u> 66. SVSMB-J-08-02	<u>NANA</u>	<u>90⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>67. SVSMB-H-19-C2-01</u> 67. SVSMB-K-10-02	<u>NANA</u>	<u>90⁺42⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>
<u>68. SVSMB-H-19-C2-02</u> 68. SVSMB-J-13-01	<u>NANA</u>	<u>90⁺90⁺</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) &</u> <u>(d)R 336.1901</u>

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
69. SVSMB-H-19-C2-03 69. SVSMB-J-13-02	NANA	90[±] 90[±]	R 336.1225, 40 CFR 52.21(c) & (d)R 336.1901
70. SVSMB-H-19-C2-04 70. SVSMB-J-13-03	NANA	90[±] 90[±]	R 336.1225, 40 CFR 52.21(c) & (d)R 336.1901
71. SVSMB-H-20-C2-01 71. SVSMB-J-13-04	NANA	90[±] 90[±]	R 336.1225, 40 CFR 52.21(c) & (d)R 336.1901
72. SVSMB-H-20-C2-02 72. SVSMB-J-14-01	NANA	90[±] 90[±]	R 336.1225, 40 CFR 52.21(c) & (d)R 336.1901
73. SVSMB-J-14-02	NA	90[±]	R 336.1901
74. SVSMB-J-14-03	NA	90[±]	R 336.1901
75. SVSMB-J-14-04	NA	90[±]	R 336.1901
76. SVSMB-J-15-01	NA	90[±]	R 336.1901
77. SVSMB-J-15-02	NA	90[±]	R 336.1901
78. SVSMB-J-15-03	NA	90[±]	R 336.1901
79. SVSMB-J-16-01	NA	90[±]	R 336.1901
80. SVSMB-J-16-02	NA	90[±]	R 336.1901
81. SVSMB-J-16-03	NA	90[±]	R 336.1901
82. SVSMB-J-16-04	NA	90[±]	R 336.1901
83. SVSMB-J-16-05	NA	90[±]	R 336.1901
<p>^CThese stacks are existing stacks for the EU-COLOR-ONE oven and incinerator and will be replaced with SVEXC1INC upon completion of construction.</p> <p>^DThese stacks are existing EU-COLOR-ONE spray booth stack. These stacks will be replaced by SVBC1OBEAST, SVCC1OBEAST, SVBTHCONCEAST, and SVRTOEAST upon completion of construction on EU-COLOR-ONE.</p> <p>^EThese stacks are existing EU-COLOR-TWO stacks and will no longer be in use after permanent shutdown of EU-COLOR-TWO as required in SC IX.5.</p>			

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart MM (Standards of Performance for Automobile and Truck Surface Coating Operations) and Subpart A (General Provisions). **(40 CFR, Part 60, Subpart MM)**
- ~~2. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: **(40 CFR 64.6(c)(2))**~~
 - ~~a. A temperature excursion is defined as a confirmed three-hour period during which the average fails to meet the specified temperature requirements in Special Condition III.1.~~
 - ~~b. A monitoring excursion is defined as a failure to properly monitor as required in Special Conditions VI.1, VI.3 and VI.10.~~
 - ~~c. An monitoring excursion is defined as failure to properly implement and/or maintain the O&M plan required in Special Conditions VI.11~~
- ~~3. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**~~
- ~~4. 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 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))~~

~~2. The following Emission Limits in FGTOPCOATEAST shall become applicable upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A: (R 336.2908) SC I.10 and SC I.11 for EU-REPROCESS, SC I.12 for EU-COLOR ONE, SC I.14 for EU-COLOR TWO.~~

~~3. The following Emission Limits in FGTOPCOATEAST shall no longer be applicable upon startup of the automotive assembly line associated with PTI #14-19A for FCA USA, LLC, Detroit Assembly Complex Mack. Startup of the automotive assembly line is considered to be the start of an emission unit in PTI #14-19A: (R 336.2908)~~

~~— SC I.3 for EU-COLOR ONE and EU-COLOR TWO.~~

~~SC I.6 and SC I.7 for EU-REPROCESS.~~

~~4. The permittee shall temporarily shut down EU-COLOR ONE on or before July 31, 2020, for repair operations and installation of a concentrator and RTO. Thereafter, EU-COLOR ONE shall not be operated unless the control equipment is operating in a satisfactory manner. (R 336.2908)~~

~~5. The permittee shall permanently shut down EU-COLOR TWO on or before September 30, 2021. (R 336.2908)~~

Footnotes:

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

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

**FGCONTROLS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Concentrators and RTOs used for control of VOC emissions as applicable from the paint spray booths, flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and sanding/repair booths and as pre-filtration to VOC control devices.

Emission Units: EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGE CLEANWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EU-COLOR-ONE, EU-REPROCESS, EU-REPROCESS, EUPURGE CLEAN EAST, EUSPOTREPAIREAST, EUFINALREPAIR, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2

POLLUTION CONTROL EQUIPMENT

The west concentrator and west RTO used for control of VOC emissions from EU-REPROCESS, EUPRIMERWEST spray booth and flash-off areas, EUTOPCOATWEST spray booth and heated flash-off areas, and solvent borne materials from west primer and west clearcoat booths not captured in the purge collection system. The west RTO only used for control of VOC emissions from the EUECOATWEST tank and curing oven, EUPRIMERWEST curing oven, and EUTOPCOATWEST curing oven. The east concentrator and east RTO used for control of VOC emissions from EU-COLOR-ONE spray booth and flash-off areas. The east RTO only used for control of VOC emissions from EUECOATEAST tank and curing oven. A thermal oxidizer used for control of VOC emissions from the EU-COLOR-ONE cure oven. ~~A thermal oxidizer used for control of VOC emissions from the cure oven of EU-REPROCESS.~~ A thermal oxidizer used for control of VOC emissions from the cure oven of EU-REPROCESS. Waterwash particulate control systems on all paint spray booths and observation zones. Dry filter particulate control systems on all sanding and repair booths and observation, and all flash-off areas. Dry filter particulate control systems on all air supply housing (ASH), air handling units (AHU), space heating units, and all curing ovens in the E-coat, primer, and topcoat operations.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

II. PROCESS/OPERATIONAL RESTRICTION(S)

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

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1205, R 336.1225, R 336.1702, R 336.1910, R 336.1911, R 336.2908, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for the thermal oxidizers in FGCONTROLS to monitor and record the combustion chamber temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910, R 336.2908(3))**
2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, temperature monitoring devices for the concentrators in FGCONTROLS to determine the concentrator ~~desorption gas inlet and outlet~~ temperatures on a continuous basis during operation. Gas temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**
3. The permittee shall maintain records of maintenance and repair activities for FGCONTROLS. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**
4. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 52.21(c) and (d))**
5. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of +/- 5 percent of the temperature being measured expressed in degrees Celsius or +/- 2.5 °C. **(R 336.1910, 40 CFR 60.394(b))**
6. For the thermal oxidizers, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. **(R 336.1702, R 336.1910, R 336.2908)**
7. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for the thermal oxidizer

control device(s) used to demonstrate compliance with the applicable VOC emission limits: (R 336.1910, R 336.1911)

- a) Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
- b) Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.
- c) Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.
- d) Perform quarterly pressure drop readings across the concentrator.

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

VII. REPORTING

NA

III. STACK/VENT RESTRICTION(S)

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

NA

VIII. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**FGSPOTPRIMEWEST
EMISSION UNIT CONDITIONS**

DESCRIPTION

Two spot prime processes in the west paint shop. One that is placed after the E-coat process and prior to the primer application process, and one that is located after the primer process and prior to topcoat application

Emission Unit IDs: EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the west spot prime booths 1 and 2 are exhausted to the atmosphere.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>VOC</u>	<u>1.0 ton per month</u>	<u>Calendar Month</u>	<u>Each emission unit in FGSPOTPRIMEWEST</u>	<u>SC VI.3</u>	<u>R 336.1702(d), R336.2908</u>
2. <u>VOC</u>	<u>1.36 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGSPOTREPAIRWEST</u>	<u>SC VI.3</u>	<u>R 336.1702(a), R336.2908</u>
3. <u>PM</u>	<u>0.0029 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>EUSPOTPRIMEWEST1</u>	<u>SC V.2</u>	<u>R 336.1331</u>
4. <u>PM</u>	<u>0.0029 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>EUSPOTPRIMEWEST2</u>	<u>SC V.2</u>	<u>R 336.1331</u>
5. <u>PM10</u>	<u>0.026 pph</u>	<u>Hourly</u>	<u>Each emission unit in FGSPOTPRIMEWEST</u>	<u>SC V.2</u>	<u>R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)</u>
6. <u>PM2.5</u>	<u>0.026 pph</u>	<u>Hourly</u>	<u>Each emission unit in FGSPOTPRIMEWEST</u>	<u>SC V.2</u>	<u>R 336.1205(1)(a)&(1)(b), 40 CFR 52.21 (c) & (d)</u>

^aCalculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings and VOC-containing materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and VOC-containing materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any emission unit in FGSPOTPRIMEWEST unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of

the particulate controls includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. (R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) and (d))

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material, as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer’s formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. (R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908)

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from a representative emission unit in FGSPOTPRIMEWEST, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1301, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205, R 336.1224, R 336.1225, R 336.1702, R 336.2908)

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 used in FGSPOTPRIMEWEST. The data may consist of Safety Data Sheets, manufacturer’s formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter system, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))

4. The permittee shall keep usage and VOC emissions calculations records on a monthly basis for each material (as received or as applied if applicable) used in FGSPOTPRIMEWEST. The records shall be kept using mass balance or an alternate method and format acceptable to the AQD District Supervisor, and as a minimum shall indicate the following:

- a) A description of the material and its VOC content in pounds per gallon (minus water and with water, where applicable).
- b) The monthly usage rate of each material.

c) The amount of material reclaimed where applicable.

d) The VOC emission calculations determining the total VOC mass emissions in tons per calendar month and tons per year based on a 12-month rolling time period as determined at the end of each month.

All such records are for the purpose of compliance demonstration. All records shall be kept on file and made available to the Department upon request. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908)

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVSPOTPRMWEST1</u>	<u>26</u>	<u>75</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVSPOTPRMWEST2</u>	<u>44</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63 Subpart A and Subpart IIII, as they apply to FGSPOTPRIMEWEST. (40 CFR Part 63, Subparts A and Subpart IIII)

Footnotes:

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

**FGRTOWEST
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the west paint shop concentrator and west RTO.

Emission Unit: EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST,

EUPURGECLEANWEST POLLUTION CONTROL EQUIPMENT

EUPRIMERWEST coating booth overspray is controlled by a waterwash particulate control system. A portion of the EUPRIMERWEST coating booth exhaust will be filtered and recirculated to the booth air make-up system. EUPRIMERWEST coating booth and ambient flash-off area emissions are exhausted through a bank of particulate filters, the west concentrator, and the west RTO. EUPRIMERWEST oven emissions are exhausted through a bank of filters and directly to the west RTO. EUTOPCOATWEST booth and heated flash-off exhausts are routed through a bank of particulate filters, the west concentrator, and the west RTO. EUTOPCOATWEST oven emissions are exhausted directly to the west RTO. Dry filter particulate control systems on all direct-fire air supply housing (ASH), air handling units (AHU), and curing ovens in EUECOATWEST, EUPRIMERWEST, and EUTOPCOATWEST.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period! Operating Scenario</u>	<u>Equipment</u>	<u>Testing ! Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>PM</u>	<u>0.0032 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>RTO portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)</u>
2. <u>PM10</u>	<u>0.518 pph</u>	<u>Hourly</u>	<u>RTO portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
3. <u>PM2.5</u>	<u>0.518 pph</u>	<u>Hourly</u>	<u>RTO portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
4. <u>PM</u>	<u>0.0029 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)</u>
5. <u>PM10</u>	<u>0.123 pph</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
6. <u>PM2.5</u>	<u>0.123 pph</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOWEST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
7. <u>NOx</u>	<u>3.29 pph</u>	<u>Hourly</u>	<u>Concentrator and RTO portions of FGRTOWEST, combined</u>	<u>SC V.2</u>	<u>40 CFR 52.21 (c) & (d)</u>

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM2.5, PM10, and PM emission rates of the concentrator and RTO portions of FGRTOWEST, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the combined NOx emission rate from the west concentrator and the west RTO portion of FGRTOWEST, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTINGNA**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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVBTHCONCWEST</u>	<u>68</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)NA**Footnotes:**

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

FGRTOEAST
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

This flexible group covers NOx, PM, PM10, and PM2.5 emissions from the east paint shop concentrator and RTO associated with EUECOATEAST, EUPURGECLEANEAST, and the refurbished spray booth portion of EU-COLOR-ONE

Emission Unit: EUECOATEAST, EU-COLOR-ONE, EU-PURGECLEANEAST

POLLUTION CONTROL EQUIPMENT

EU-COLOR-ONE coating booth overspray is controlled by a waterwash particulate control system. A portion of the EU-COLOR-ONE coating booth exhaust is filtered and recirculated to the booth air make-up system. EU-COLOR-ONE coating booth ~~and flash-off area~~ emissions are exhausted through a bank of particulate filters, the east concentrator, and the east RTO. Dry filter particulate control systems on all direct-fire air supply housing (ASH) and air handling units (AHU) in EUECOATEAST and EU-COLOR-ONE.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>PM</u>	<u>0.0032 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>RTO portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)</u>
2. <u>PM10</u>	<u>0.518 pph</u>	<u>Hourly</u>	<u>RTO portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
3. <u>PM2.5</u>	<u>0.518 pph</u>	<u>Hourly</u>	<u>RTO portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
4. <u>PM</u>	<u>0.0029 lbs per 1,000 lbs of exhaust gas^a</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), R 336.1331(1)(c)</u>
5. <u>PM10</u>	<u>0.148 pph</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
6. <u>PM2.5</u>	<u>0.148 pph</u>	<u>Hourly</u>	<u>Concentrator portion of FGRTOEAST</u>	<u>SC V.1</u>	<u>R 336.1205(1)(a) and (1)(b), 40 CFR 52.21 (c) & (d)</u>
7. <u>NOx</u>	<u>6.39 pph</u>	<u>Hourly</u>	<u>Concentrator and RTO portions of FGRTOEAST, combined</u>	<u>SC V.2</u>	<u>40 CFR 52.21 (c) & (d)</u>

^a Calculated on a wet gas basis

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT

PARAMETER(S) NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM2.5, PM10, and PM emission rates of the concentrator and RTO portions of FGRT0EAST, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the combined NOx emission rate from the east concentrator and the east RTO portion , by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))**

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

NA

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVBTHCONCEAST</u>	<u>60</u>	<u>106</u>	<u>40 CFR 52.21(c) & (d)</u>
<u>2. SVRTOEAST</u>	<u>60</u>	<u>114</u>	<u>40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

FG-TEMPBOILERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

FG-TEMPBOILERS: Two natural gas fired boilers:

These are trailer mounted temporary boilers installed since 2009 and mostly used in non-heating season (summer). Although capable of being moved, the boilers have been located at the plant for at least two years (as of March 2016). AQD received both NSPS Dc (April 30, 2007) and Major Source Boiler MACT 5D (May 24, 2013) notifications.

Emission Unit:

1. EU-TEMPBOILER1: 25 million BTU per hour heat input natural gas only fired trailer-mounted temporary boiler.
2. EU-TEMPBOILER2: 29 million BTU per hour heat input natural gas only fired trailer-mounted temporary boiler.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality sweet natural gas natural gas. (R 336.1213(3), 40 CFR 60 Subpart Dc)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- 1. ~~The permittee shall keep monthly records of natural gas used in FG TEMPBOILERS. (R 336.1213(3), 40 CFR 60 Subpart Dc)~~

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

- 1. ~~The permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart Dc (Standards of Performance for Small Industrial Commercial Institutional Steam Generating Units) and Subpart A (General Provisions). (40 CFR, Part 60, Subpart Dc)~~

Footnotes:

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

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

**FG-BOILERS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-BOILERS: Four (4) natural gas fired boilers to produce steam and heat. Four (4) natural gas fired boilers to produce steam and heat located in the powerhouse. Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.

Emission Unit:

1. EU-BOILER3: 152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.
2. EU-BOILER4: 106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98) natural gas only boiler equipped with low NOx burners..
3. EU-BOILER5: 152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.
4. EU-BOILER6: 192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84) natural gas only boiler equipped with oxygen trim system but not low NOx burners.

POLLUTION CONTROL EQUIPMENT

While Boiler Nos. 3, 4 and 5 are equipped with low NOx burners, Boiler No. 6 (with oxygen trim system) is a high efficiency boiler but not low NOx.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	<u>119.0 tpy</u> ⁴⁹² <u>Tons per year</u>	12-month rolling time period <u>as determined at the end of each calendar month</u>	FG-BOILERS	SC V.1, VI.1	R 336.1201(3)
<u>2. NOx^A</u>	<u>5.43 pph</u>	<u>Hourly</u>	<u>EU-BOILER3</u>	<u>SC V.1</u>	<u>40 CFR 52.21 (c) & (d)</u>
<u>3. NOx^A</u>	<u>6.61 pph</u>	<u>Hourly</u>	<u>EU-BOILER4</u>	<u>SC V.1</u>	<u>40 CFR 52.21 (c) & (d)</u>
<u>4. NOx^A</u>	<u>9.59 pph</u>	<u>Hourly</u>	<u>EU-BOILER5</u>	<u>SC V.1</u>	<u>40 CFR 52.21 (c) & (d)</u>
<u>5. NOx^A</u>	<u>27.86 pph</u>	<u>Hourly</u>	<u>EU-BOILER6</u>	<u>SC V.1</u>	<u>40 CFR 52.21 (c) & (d)</u>
<u>^AThis emission limit becomes applicable upon startup of the west paint shop.</u>					

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	1,305 ² Million (MM) standard cubic feet per year	12-month rolling time period <u>as determined at the end of each calendar month</u>	FG-BOILERS	SC VI.1	R 336.1201(3)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only burn pipeline quality sweet natural gas in FG-BOILERS.² (R 336.1201(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)1201(3))

- ~~1. Verification of the NOx emission rate for each boiler by testing of FG-BOILERS, at owner's expense, is required according to the following schedule:
 - a. Within two years of issuance of this permit, if an acceptable NOx emission rate test has not been conducted within two years prior to the issuance of the RO permit, unless the permittee has submitted an acceptable demonstration that the most recent acceptable test remains valid and representative.~~

~~Verification of the NOx emission rate includes the submittal (within 60 calendar days following the last date of the sampling to both the SEMI-District Supervisor and the Technical Programs Unit Supervisor, Air Quality Division, in a format acceptable to AQD) of a complete report of the test results. No less than 30 days prior to testing, a complete testing plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Not less than seven days before any test are conducted, the permittee shall notify the AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. (R 336.1213(3), R 336.2001(3))~~

~~See Appendix 5~~

- ~~1. Within 365 days of saleable vehicle production from the west paint shop, the permittee shall conduct initial testing, and at least once every five years from the last testing date thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify NOx emission rates from each boiler in FGBOILERS by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))~~

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii)1201(3))

1. The permittee shall monitor and record, in a satisfactory manner, the natural gas usage for FG-BOILERS on a monthly basis.² (R 336.1201(3))
2. The permittee shall conduct and record routine and scheduled preventative maintenance programs for FG-BOILERS. (R 336.1213(3)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

NA

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. SVPH-C-08-B-03	71 ²	74 ²	40 CFR 52.21 (c) & (d)
2. SVPH-C-11-B-04	71 ²	74 ²	40 CFR 52.21 (c) & (d)
3. SVPH-C-13-B-05	71 ²	74 ²	40 CFR 52.21 (c) & (d)
4. SVPH-C-15-B-06	48 ²	73 ²	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

- ~~1. Concerning three of four permanent (installed after June 9, 1989) natural gas fired boilers (EU-BOILER3, EU-BOILER4 & EU-BOILER5), the permittee shall comply with New Source Performance Standards (NSPS), 40 CFR, Part 60, Subpart Dc (Standards of Performance for Small Industrial Commercial Institutional Steam Generating Units) and Subpart A (General Provisions). (40 CFR, Part 60, Subpart Dc)~~

NA

Footnotes:

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

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

**FG-GASOLINE-TANKS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-GASOLINE-TANKS: Three unleaded gasoline storage tanks.

Emission Units:

1. EU-UNLEADEDGAS1 (TK1 25,000 gal) – above-ground storage tank with spill containment

POLLUTION CONTROL EQUIPMENT

Vapor Balance System

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall equip, maintain, or control FG-GASOLINE-TANKS with all of the following:
 - a. An interlocking system to ensure the vapor-tight collection line shall close upon disconnection to prevent release of gasoline vapor. **(R 336.1703(3)(a))**
 - b. A device to ensure that the vapor-tight collection line shall close upon disconnection to prevent release of gasoline vapor. **(R 336.1703(3)(b))**
2. The vapor balance system shall be installed, maintained and operated in a satisfactory manner. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Each tank of FG-GASOLINE-TANKS shall be equipped with a permanent submerged fill pipe. **(R 336.1703(1))**
2. Each storage vessel shall meet the following parameters:
 - a. Storage or transfer operations of volatile organic compounds or noncarcinogenic liquids in a vessel that has a capacity of not more than 40,000 gallons where the contents have a true vapor pressure of not more than 1.5 psia at the actual storage conditions. **(R 336.1284(i))**

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. On a monthly basis, the permittee shall inspect the interlock system and the device to ensure the vapor tight collection line. (R 336.1213(3))
2. The permittee shall keep a record of the following for each storage vessel: (R 336.1213(3))
 - a. A monthly record of the inspections for the interlock system and the device to ensure the vapor tight collection line.
 - b. The identification (name, tank #, etc.).
 - c. Location within the plant.
 - d. The record of the dimensions of each vessel and analysis showing the capacity of the vessel. (40 CFR 60.116b(b))
 - e. The date of installation/modification.
 - f. The true vapor pressure of the material in the vessel at actual storage conditions.

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

FGTANKS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.

Emission Unit: EU-UNLEADEDGAS1, EUMETANK, EUDIESELTANK1, EUANTIFREEZETANK, EUBRAKEFLUIDTANK, EUAUTOTRANS, EUDIESELEXTANK, EUGASTANK2, EUDIESELTANK2, EUPURSOLVTANK, EUDIESELTANK3

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

VII. MATERIAL LIMIT(S)

NA

VIII. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe. (R 336.1703(1))

IX. DESIGN/EQUIPMENT PARAMETER(S)

NA

X. TESTING/SAMPLING

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

NA

XI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of 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. (R 336.1225, R 336.1702)
2. The permittee shall keep a record of the following for each storage vessel:
 - a) The identification (name, tank #, etc).
 - b) Location within the plant.
 - c) The capacity of the vessel.
 - d) The date of installation/modification.

- e) The type of material contained in the vessel.
- f) The true vapor pressure of the material contained in the vessel at actual storage conditions.
- g) The applicable requirements.

The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1703, 40 CFR 60 Subparts K, Ka, Kb)**

VII. REPORTING

NA

IV. STACK/VENT RESTRICTION(S)

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

NA

VIII. OTHER REQUIREMENT(S)

1. Any new gasoline tank (placed into operation on or after 07/01/79) shall comply with the applicable requirements of Rule 703. (R 336.1703)
2. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards, 40 CFR Part 60 Subparts A, K, Ka, Kb based upon installation or modification date and applicability and designation of affected facility provisions in 40 CFR 60.110, 60.110a, 60.110b. Construction, reconstruction, or modification dates are as follows: **(40 CFR Part 60 Subparts A, K, Ka, Kb)**

 - a) Subpart K: after June 11, 1973 and prior to May 19, 1978;
 - b) Subpart Ka: after May 18, 1978 and prior to July 23, 1984;
 - c) Subpart Kb: after July 23, 1984.

Footnotes:

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

**FG-RULE-331
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-RULE-331: Wood saws, lathes, etc.

Emission Unit: EU-CARPENTERSHOP

POLLUTION CONTROL EQUIPMENT

Baghouse for EU-CARPENTERSHOP

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.10 Pounds of PM per 1000 pounds of exhaust gas	Test protocol	FG-RULE-331	SC VI.1	R 336.1331(1)(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-RULE-331 unless the corresponding control devices are installed and operating properly. **(R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall implement and maintain a monthly check to ensure proper operation of the control equipment for each emission unit on a monthly basis. Proper operation includes ensuring the bags / filters are installed in a leak-tight manner and hoppers are emptied promptly. Any maintenance activity performed on the control device shall be recorded and kept on file which will be available to AQD upon request. Proper operation of a particulate control system (s) as stated above is deemed to show compliance with SC I.1 emission limit. **(R 336.1213(3))**

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**FG-PM-MISC
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-PM-MISC: This group consists of various emission units that have the same particulate requirements.

Emission Units:

1. EU-COLOR-ONE-SAND: Color1 paint line sanding operations.
2. EU-POLISH-DECK: Polish-deck polishing of minor surface defects.
3. EU-REPROCESS-SAND: Topcoat sanding operations on painted vehicles with enclosure to capture particulate emissions.
4. EU-REPRO-POLISH: Polishing of minor surface defects on painted vehicles.
5. EU-UNIPRIME-SAND: E-coat sanding operations with exhausted enclosure to capture particulate emissions.

POLLUTION CONTROL EQUIPMENT

Associated exhaust filters.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	1.0 ² mg per cubic meter, @ 70 degrees Fahrenheit and 29.92 inches Hg from each of the emission group.	Test Protocol	FG-PM-MISC	SC VI.1	R 336.1201(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-PM-MISC unless the associated exhaust filters are installed and operating properly, which includes ensuring that filters are installed snug and tight without gaps and holes. Proper operation of a particulate control system (s) as stated above is deemed to show compliance with SC I.1 emission limit.² (R 336.1910)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall inspect the integrity of the exhaust filters on a monthly basis to ensure proper operation (ensuring that filters are installed snug and tight without gaps and holes). Any maintenance activity performed on the exhaust filters shall be recorded and kept on file. (R 336.1213(3))

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

FG-AUTOMACT FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: ~~EU-UNIPRIME, EU-SOLVENT-WIPE, EU-SEALERS&ADHESIVE, EU-BLACKOUT-BOOTH, EU-FINAL-REPAIR, EU-SPOT-REPAIR-DECK, EU-TUTONE, EU-COLOR-ONE, EU-COLOR-TWO, EU-REPROCESS, EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGECLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGECLEANEAST, EUSPOTREPAIREAST, EUSEALERS, EUFINALREPAIR, EU-COLOR-ONE, EU-REPROCESS, EU-REPROCESS EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2~~

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP	0.60-0.30 Pounds-lb per GACS	Calendar month	New/Reconstructed- FGAUTOMACT with EUECOATWEST and EUECOATEAST Existing- FG-AUTOMACT WITH UNIPRIME	SC III.3, SC V.1, SC VI.3Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3094(a)
2. Organic HAP*	1.10-0.5 Pounds-lb per GACS	Calendar month	New/Reconstructed- FGAUTOMACT Existing- FG-AUTOMACT	SC III.3, SC V.1, SC VI.3Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3091(b)
3. Organic HAP	0.01 Pound-lb per poundlb of coating	Calendar month	New/Reconstructed- SEALERS & ADHESIVES Existing- EU-SEALERS&ADHESIVE	SC III.3, SC V.1, SC VI.3Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(c) or 63.3091(c)
4. Organic HAP	0.01 Pound-lb per poundlb of coating	Calendar month	New/Reconstructed- Deadener Materials Existing - EU-DEADENERBOOTH	SC III.3, SC V.1, SC VI.3Condition Nos. III.2, V.1 & VI.3	40 CFR 63.3090(d) or 63.3091(d)

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

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
*Permittee may choose to comply with this limit if the requirements of Condition No. 1.5 is met. GACS = Gallon of Applied Coating Solids or Gallon of Coating Solids Deposited.					

~~5. The permittee may choose to comply with either Special Condition numbers 1.1 or 1.2. The permittee may choose to comply with Special Condition Number 1.2 only if Electrocoat system (EU-UNIPRIME) meets either of the following requirements. (40 CFR 63.3092)~~

- ~~a. Each individual material added to the Uniprime system contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any OSHA-defined carcinogenic organic HAP, or~~
- ~~b. The emissions from all Electrocoat bake ovens are captured and ducted to a CONTROL DEVICE having a minimum destruction or removal efficiency of at least 95 percent (by weight).~~

~~5. The permittee may choose to comply with either SC 1.1 or 2. SC 1.2 may be chosen only if EUECOATWEST and EUECOATEAST meet either of the following requirements. (40 CFR 63.3092)~~

- ~~a) Each individual material added to EUECOATWEST and EUECOATEAST contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any OSHA-defined carcinogenic organic HAP.~~
- ~~b) The emissions from all EUECOATWEST and EUECOATEAST bake ovens are captured and ducted to the oven thermal oxidizer which achieves a minimum destruction efficiency of at least 95 percent (by weight).~~

~~**Note:** The permittee opts to show compliance with the Auto MACT HAP emission limits without taking HAP destruction credit pertaining to the oven thermal oxidizers via use of compliant coatings. If the permittee choses to take credit for HAP destruction using oven thermal oxidizers, the permittee shall comply with the Auto MACT control devices operating limits of §63.3093 and Table 1.~~

II. MATERIAL LIMIT(S)

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

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall develop and implement a work practice plan to minimize the organic HAP emissions from the storage, mixing and conveying of coatings, thinners, and cleaning materials used in, and waste materials generated by all coating operations for which an emission limit has been established under Special Condition Nos. 1.1 through 1.4. The work practice plan must specify practices and procedures to ensure that, at a minimum, the following elements are implemented consistent with the requirements of 40 CFR 63.3094. The permittee shall comply with the applicable work practice plans at all times.
 - a. All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
 - b. Spills of organic-HAP containing coatings, thinners, cleaning materials, and waste materials must be minimized.
 - c. Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
 - d. Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain organic-HAP-containing coatings and other materials, must be closed except when adding to, removing, or mixing the contents.
 - e. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
 - f. Organic HAP emissions from cleaning and from purging of equipment associated with all coating operations subject to emission limits in Special Conditions Nos. 1.1 through 1.4 above must be minimized by addressing:
 - i. Vehicle body wipe pursuant to 40 CFR 63.3094(c)(1)(i);

- ii. Coating line purging pursuant to 40 CFR 63.3094(c)(1)(ii);
- iii. Coating system flushing pursuant to 40 CFR 63.3094(c)(1)(iii);
- iv. Cleaning of spray booth grates pursuant to 40 CFR 63.3094(c)(1)(iv);
- v. Cleaning of spray booth walls pursuant to 40 CFR 63.3094(c)(1)(v);
- vi. Cleaning of spray booth equipment pursuant to 40 CFR 63.3094(c)(1)(vi);
- vii. Cleaning of external spray booth areas pursuant to 40 CFR 63.3094(c)(1)(vii);
- viii. Additional housekeeping measures pursuant to 40 CFR 63.3094(c)(1)(viii).

~~2.~~ The permittee may choose to comply with an alternative to the work practice standard, after receiving prior approval from the USEPA in accordance with 40 CFR 63.6(g). **(40 CFR 63.3100(c), 40 CFR 63.4493(b) and (c))**

~~23.~~ The work practice plan shall not become part of the facility's Renewable Operating Permit (ROP). Revisions to the work practice plan likewise do not represent revisions to the facility's ROP. Copies of the current work practice plan and any earlier plan developed within the past 5 years are required to be made available for inspection and copying by the AQD upon request. **(40 CFR 63.3094)**

~~4.~~ For any coating operation(s) for which HAP emission reductions due to the use of add-on control equipment are relied upon to demonstrate compliance with the emission limits in Special Condition Nos. I.1 through I.4 above, the permittee shall meet the operating limits specified in Table 1 of 40 CFR 63, Subpart IIII as identified below. The operating limits in Table 1 apply to the emission capture and add-on control systems on the coating operations. The permittee must establish the operating limits during the performance test according to the requirements in 40 CFR 63.3167. The operating limits shall be met at all times after they are established, except for periods of startup, shutdown and malfunction. **(40 CFR 63.3093, 40 CFR 63.3100(b) and (d) and Table 1)**

Add-On Control Device	Operating Limit
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).

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

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

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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

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

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii)1201(3))**

- ~~1. The permittee shall compile all required records and complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the end of the calendar month following each compliance period unless otherwise specified in any monitoring/recordkeeping condition. **(R 336.1213(3))**~~
- ~~2. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, and 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month. **(40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))**~~
- ~~3. The permittee shall install, operate and maintain each Continuous Parameter Monitoring System (CPMS) according to the requirements of 40 CFR 63.3168(a). If the capture system contains a bypass line, the permittee shall comply with the requirements of 40 CFR 63.3168(b). **(40 CFR 63.3168)**~~
- ~~4. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131. **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**~~
- ~~5. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:

 - ~~a. A copy of each notification and report that is submitted to comply with 40 CFR, Part 63, Subpart IIII and the documentation supporting each notification and report. **(40 CFR 63.3130(a))**~~
 - ~~b. A current copy of information provided by materials suppliers or manufactures, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating. **(40 CFR 63.3130(b))**~~
 - ~~c. For each coating or thinner used in FG-AUTOMACT or FG-AUTOMACT WITH E-COAT, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. **(40 CFR 63.3130(c))**~~
 - ~~d. For each material used in EU-DEADENERBOOTH and EU-SEALERS&ADHESIVE, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**~~
 - ~~e. Calculations of the organic HAP emission rate for FG-AUTOMACT or FG-AUTOMACT WITH E-COAT in pounds per gallon of applied coating solids. If the permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat system. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA 450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**~~
 - ~~f. Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EU-DEADENERBOOTH and EU-SEALERS&ADHESIVE. **(40 CFR 63.3130(c), 40 CFR 63.3152)**~~
 - ~~g. The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) – (f))**~~
 - ~~h. Any additional records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition Numbers I.1 through I.4 depends, pursuant to 40 CFR 63.3130(g) through (o). **(40 CFR 63.3130(g) – (o))**~~
 - ~~i. Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Condition~~~~

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

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

Add-On Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal Oxidizer (including RTO for e-coat)	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).	<ul style="list-style-type: none"> a. Collect the combustion temperature data according to 40 CFR 63.3168(e); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average combustion temperature at or above temperature limit.

~~7. The permittee shall monitor or secure the valve or closure mechanism controlling each bypass line for each capture system upon which compliance with any of the emission limits in Special Condition numbers I.1 through I.4 depends in a non-bypass mode such that the valve or closure mechanism cannot be opened without creating a record that it was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the following:~~

- ~~a. Flow control position indicator requirements pursuant to 40 CFR 63.3168(b)(1)(i);~~
- ~~b. Car seal or lock and key valve closures requirements pursuant to 40 CFR 63.3168(b)(1)(ii);~~
- ~~c. Valve closure monitoring requirements pursuant to 40 CFR 63.3168(b)(1)(iii);~~
- ~~d. Automatic shutdown system requirements pursuant to 40 CFR 63.3168(b)(1)(iv).~~

~~—If any bypass line is opened, a description of why the line was opened and the length of time it remained open must be included in the semi-annual compliance reports required in Special Condition Number 12.18. (40 CFR 63.3168(b))~~

See Appendices 8

1. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, and 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month. (40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) and (b))
2. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131. (40 CFR 63.3152(c), 40 CFR 63.3163(j))
3. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
 - a) A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart IIII and the documentation supporting each notification and report. (40 CFR 63.3130(a))
 - b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating. (40 CFR 63.3130(b))
 - c) For each coating or thinner used in FGAUTOMACT or FGAUTOMACT with EUECOATWEST and EUECOATEAST, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. (40 CFR 63.3130(c))
 - d) For each material used in EUSEALERS, the mass used in each month and the mass organic HAP content. (40 CFR 63.3130(c))

- e) Calculations of the organic HAP emission rate for FGAUTOMACT or FGAUTOMACT with EUECOATWEST and EUECOATEAST in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat systems. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. (40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)
- f) Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EUSEALERS. (40 CFR 63.3130(c), 40 CFR 63.3152)
- g) The name, volume, mass fraction organic HAP content and density of each cleaning material used. (40 CFR 63.3130(d) - (f))
- h) Any additional records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Conditions I.1 through I.4 depends, pursuant to 40 CFR 63.3130(g) through (o). (40 CFR 63.3130(g) - (o))
- i) Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Conditions I.1 through I.4 depends must be maintained on-site for the life of the equipment in a location readily available to plant operators and inspectors. (40 CFR 63.3130(o))

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(iii))~~
- ~~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. (40 CFR 63.3120(a)(1), R 336.1213(3)(c)(i))~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
- 4.1. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.3120(a). The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever comes first. These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30. (40 CFR 63.3120(a))
- 5.2. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110. (40 CFR, Part 63, Subparts A and IIII)
- 6. ~~For any coating operation(s) using add-on controls, the permittee shall submit all performance test reports for emission capture systems and add-on control devices, and reports of transfer efficiency tests as required by 40 CFR 63.3120(b). (40 CFR 63.3120(b))~~
- 7. ~~If an emission capture system or add-on control device is used to comply with any of the emission limits in Special Condition numbers I.1 through I.4, and a startup, shutdown, or malfunction occurs during the semiannual reporting period, the permittee shall submit a SSM report as specified in 40 CFR 63.3120(c). (40 CFR 63.3120(c), 40 CFR 63.10(d))~~

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

NA

IX. OTHER REQUIREMENT(S)

~~4. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart IIII for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date. (40 CFR, Part 63, Subparts A and IIII)~~

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

Footnotes:

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

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

**FG-OLDMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

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

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

Emission Unit: The permittee shall maintain an up-to-date list of emissions units subject to FG-OLDMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 Organic liquid, that verifies the storage tank is not required to be controlled under this subpart. The documentation shall be kept up-to-date and must be in a format acceptable to AQD. **(63.2343(b)(3))**

VII. REPORTING

- 1. The permittee shall submit the following information in either the Notification of Compliance Status, according to the schedule in Table 12 to this subpart, or in your first Compliance report according to the schedule in 63.2386(b), whichever occurs first. **(63.2343(b)(1))**
 - a. Company name and address.
 - b. A statement by a responsible official, including the official's name, title and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate and complete.
 - c. Date of report and beginning and ending dates of the reporting period.
 - d. A list of all storage tanks greater than 5,000 gallons that are part of the affected source but not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.
- 2. The permittee shall submit subsequent compliance reports according to the schedule in 63.2386(b) or in conjunction with the reporting requirements in this ROP whenever any of the following events occur as applicable: **(63.2343(b)(2))**
 - a. Any storage tank became subject to control under this subpart EEEE.
 - b. Any storage tank greater than 5,000 gallons became part of the affected source, but is not subject to any emission limitations, operating limits or work practice standards of this subpart.

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

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

Footnotes:

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

**FG-BOILER-MACT5D
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Requirements for existing Gas 1, (Natural Gas only) for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers or process heaters must comply with this subpart no later than January 31, 2016, except as provided in 40 CFR 63.6(i).

While Boiler No. 6 has an oxygen trim system, Boiler Nos. 3, 4 & 5 only have O2 monitoring (FG-BOILERS).

~~Oxygen trim system means a system of monitors that is used to maintain excess air at the desired level in a combustion device over its operating load range. A typical system consists of a flue gas oxygen and/or CO monitor that automatically provides a feedback signal to the combustion air controller or draft controller.~~

Emission Units: At the time of 2016 ROP permit renewal, the following boilers are present (all are greater than 10 MM BTU per hour natural gas only boilers):

FG-TEMPBOILERS

1. ~~EU-TEMPBOILER1: 25 million BTU per hour heat input natural gas only fired trailer mounted temporary boilers.~~
2. ~~EU-TEMPBOILER2: 29 million BTU per hour heat input natural gas only fired trailer mounted temporary boilers.~~

FG-BOILERS

1. ~~EU-BOILER3: 152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.~~
2. ~~EU-BOILER4: 106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98)) natural gas only boiler equipped with low NOx burners.~~
3. ~~EU-BOILER5: 152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.~~
4. ~~EU-BOILER6: 192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84)) natural gas only boiler equipped with oxygen trim system but not low NOx burners.~~

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

1. ~~The permittee shall **only** burn pipeline quality sweet natural gas. (40 CFR 63.7499(i))~~

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. ~~The permittee must meet the tune-up and Energy Assessment work practice standards for each applicable boiler or process heater at the source. (40 CFR 63.7500(a)(1), 40 CFR Part 63, Subpart DDDDD, Table 3, Nos. 1-4)~~

- ~~2. The permittee must operate and maintain affected sources 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))~~
- ~~3. The permittee may obtain approval from the Administrator to use an alternative to the work practice standards noted in SC III.1 and/or SC III.2. (40 CFR 63.7500(b))~~
- ~~4. The permittee must:
 - ~~a. Complete a tune-up annually (13 months) for boilers without a continuous oxygen trim system and greater than 10 million Btu per hour. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every five years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. (40 CFR 63.7540(a)(10), 40 CFR 63.7515(d))~~
 - ~~b. Conduct the tune-up within 30 calendar days of startup, if the unit is not operating on the required date for a tune-up. (40 CFR 63.7540(a)(13))~~
 - ~~c. Follow the procedures described in SC IX 4.a through 4.f for all initial and subsequent tune-ups. (40 CFR 63.7540(a)(10), 40 CFR Part 63, Subpart DDDDD, Table 3)~~
 - ~~d. Complete the Initial tune-ups on all affected units no later than January 31, 2016, except as provided in 40 CFR 63.7510(j) and 40 CFR 63.7540(a)(13).~~~~
- ~~5. The permittee must complete the one-time energy assessment no later than January 31, 2016. Alternatively, the facility may operate under an energy management program compatible with ISO 50001 that includes the affected units to satisfy the energy assessment requirements. (40 CFR 63.7510(e), 40 CFR Part 63, Subpart DDDDD, Table 3, Nos. 1-4)~~

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)(iii))

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- ~~1. The permittee 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 semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). (40 CFR 63.7555(a)(1))~~
- ~~2. The permittee must keep each record on-site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off-site for the remaining 3 years. (40 CFR 63.7560(a), (b), and (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 a Notification of Compliance Status that includes each applicable boiler or process heater before the close of business on the 60th day following the completion of the initial compliance demonstrations for all boiler or process heaters at the facility. The Notification of Compliance Status report must contain the following information. (40 CFR 63.7545(e))

 - ~~a. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with 40 CFR Part 63, Subpart DDDDD, description of the fuel(s) burned. (40 CFR 63.7545(e)(1))~~
 - ~~b. Certification(s) of compliance, as applicable, and signed by a responsible official: (40 CFR 63.7545(e)(8))

 - ~~i. "This facility complies with the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)." (40 CFR 63.7545(e)(8)(i))~~
 - ~~ii. "This facility has had an energy assessment performed according to 40 CFR 63.7530(e) or operates under an energy management program compatible with ISO 50001." (40 CFR 63.7545(e)(8)(iii))~~~~~~
- ~~5. The permittee must submit boiler tune-up compliance reports. The first compliance report shall cover the period January 31, 2016 thru December of the year in which the tune-up was completed and must be postmarked or submitted no later than March 15 of the reporting year that immediately follows the year in which the tune-up was completed. Subsequent compliance reports must be postmarked or submitted by March 15 of the year following the tune-up and must cover the applicable 1, 2, or 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 be submitted using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to the state and EPA Region 5. At the discretion of the Administrator, the permittee must submit these reports, in the format specified by the Administrator. (40 CFR 63.7550(b), 40 CFR 63.10(a)(5), 40 CFR 63.7550(h)(3))~~
- ~~6. The permittee must include the following information in the compliance report. (40 CFR 63.7550(c), 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)(iii))~~
 - ~~c. Date of report and beginning and ending dates of the reporting period. (40 CFR 63.7550(c)(5)(iii))~~
 - ~~d. The total operating time during the reporting period. (40 CFR 63.7550(c)(5)(iv))~~
 - ~~e. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done annually, 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))~~~~

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

1. ~~The permittee must comply with 40 CFR Part 63, Subpart DDDDD no later than January 31, 2016, for existing boilers and process heaters, unless an extension has been granted per 40 CFR 63.6(i). (40 CFR 63.7495(b))~~
2. ~~The permittee must be in compliance with the applicable work practice standards. (40 CFR 63.7505(a))~~
3. ~~For affected sources (as defined in 40 CFR 63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up within 30 days of startup by following the procedures described in SC IX 4.a through 4.f. (40 CFR 63.7515(g))~~
4. ~~The permittee must demonstrate continuous compliance with the tune-up requirement by completing the following: (40 CFR 63.7540(a))~~
 - a. ~~Inspect the burner, and clean or replace any components of the burner as necessary (the permittee 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). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.7540(a)(10)(iii))~~
 - d. ~~Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. (40 CFR 63.7540(a)(10)(iv))~~
 - e. ~~Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.7540(a)(10)(v))~~
 - f. ~~Maintain on-site and submit, if requested by the Administrator, the most recent periodic report containing the information as listed below. (40 CFR 63.7540(a)(10)(vi))~~
 - i. ~~The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. (40 CFR 63.7540(a)(10)(vi)(A))~~
 - ii. ~~A description of any corrective actions taken as a part of the tune-up. (40 CFR 63.7540(a)(10)(vi)(B))~~
 - iii. ~~The type and amount of fuel used over the 12 months prior to the tune up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. (40 CFR 63.7540(a)(10)(vi)(C))~~
5. ~~Concerning all Boilers and Process Heaters at this major source (FG TEMPBOILERS, FG BOILERS and other units [including less than 5 MMBtu/hour boiler; and equal to or greater than 5 MMBtu/hour & less than 10 MMBtu/hour boiler] which may be installed), 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 DDDDD (5D) for Boilers and Process Heaters at major sources of Hazardous Air Pollutants. (40 CFR, Part 63, Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters)~~

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

FGBOILERMACT5D FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Requirements for existing boiler(s) and process heater(s) that are designed to burn gas 1 subcategory fuel with a heat input capacity of 10 MMBTU/hr or greater at major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). Units designed to burn gas 1 subcategory fuels include boilers or process heaters that burn only natural gas, refinery gas, and/or Other Gas 1 fuels. Units that burn liquid fuel for testing or maintenance purposes for less than a total of 48 hours per year, or that burn liquid fuel during periods of curtailment or supply interruptions are included in this definition.

While Boiler No. 6 has an oxygen trim system, Boiler Nos. 3, 4 & 5 only have O2 monitoring (FG-BOILERS).

Oxygen trim system means a system of monitors that is used to maintain excess air at the desired level in a combustion device over its operating load range. A typical system consists of a flue gas oxygen and/or CO monitor that automatically provides a feedback signal to the combustion air controller or draft controller.

Emission Units:

At the time of 2021 ROP permit renewal, the following boilers are present (all are greater than 10 MM BTU per hour natural gas only boilers):

FG-BOILERS

1. EU-BOILER3: 152 million BTU heat input per hour (Babcox & Wilcox Boiler3, installed 7/11/98) natural gas only boiler equipped with low NOx burners.
2. EU-BOILER4: 106 million BTU heat input per hour (Babcox & Wilcox Boiler4, installed 7/11/98)) natural gas only boiler equipped with low NOx burners.
3. EU-BOILER5: 152 million BTU heat input per hour (Wickes Boiler5, installed 9/1/96) natural gas only boiler equipped with low NOx burners.
4. EU-BOILER6: 192 million BTU heat input per hour (Riley Stoker Boiler6, installed 10/29/84)) natural gas only boiler equipped with oxygen trim system but not low NOx burners.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall conduct an annual tune up of each boiler or process heater as specified below. The annual tune-up shall be no more than 13 months after the previous tune-up. (40 CFR 63.7500(a)(1), 40 CFR 63.7515(d), Table 3 of 40 CFR Part 63, Subpart DDDDD)
 - 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 delay the burner inspection until

the next scheduled unit shutdown. Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. 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). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (40 CFR 63.7540(a)(10)(iii))

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. (40 CFR 63.7540(a)(10)(iv))

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (40 CFR 63.7540(a)(10)(v))

2. 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))

3. The permittee shall conduct a tune-up of each emission unit that has an oxygen trim system installed in FGBOILERMACT5D of the burner(s) and combustion controls, as applicable, every 5 years as specified in 40 CFR 63.7540(a)(10)(i) through (vi). (40 CFR 63.7500(d), 40 CFR 63.7540(a)(12), Table 3 of 40 CFR Part 63, Subpart DDDDD)

a. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. (40 CFR 63.7515(d))

b. The permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. (40 CFR 63.7540(a)(12))

c. If the unit is not operating on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. (40 CFR 63.7540(a)(13))

4. At all times, the permittee must operate and maintain each existing gas 1 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))

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep a copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or annual compliance report that the permittee submitted. (40 CFR 63.7555(a)(1))
2. If the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, Other Gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 60 or Part 61, or Part 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. (40 CFR 63.7555(h))
3. The permittee shall maintain on-site and submit, if requested by the AQD, an annual tune-up report containing the information listed below.
 - a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. (40 CFR 63.7540(a)(10)(vi)(A))
 - b. A description of any corrective actions taken as a part of the tune-up. (40 CFR 63.7540(a)(10)(vi)(B))
 - c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. (40 CFR 63.7540(a)(10)(vi)(C))
4. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). (40 CFR 63.7560(a))
5. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. (40 CFR 63.7560(b))
6. 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. If the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or Other Gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information as listed below.
 - a. Company name and address. (40 CFR 63.7545(f)(1))
 - b. Identification of the affected unit. (40 CFR 63.7545(f)(2))
 - c. Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. (40 CFR 63.7545(f)(3))

- d. Type of alternative fuel that the permittee intends to use. (40 CFR 63.7545(f)(4))
 - e. Dates when the alternative fuel use is expected to begin and end. (40 CFR 63.7545(f)(5))
5. The permittee must submit boiler and process heater tune-up compliance reports to the appropriate AQD District Office. The reports must be postmarked or submitted by March 15th and must cover the period of January 1 through December 31 of the reporting year. For new units, the first report should cover the period of startup to December 31 of the reporting year. Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). (40 CFR 63.7550(b))
 6. The permittee must submit a compliance report containing the following information.
 - a. Company and Facility name and address. (40 CFR 63.7550(c)(5)(i))
 - b. Process unit information, emissions limitations, and operating parameter limitations. (40 CFR 63.7550(c)(5)(ii))
 - c. Date of report and beginning and ending dates of the reporting period. (40 CFR 63.7550(c)(5)(iii))
 - d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown. (40 CFR 63.7550(c)(5)(xiv))
 - e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. (40 CFR 63.7550(c)(5)(xvii))
 7. The permittee must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, submit the report to the EPA Region V at the appropriate address listed in 40 CFR 63.13 and to the appropriate AQD District Office. (40 CFR 63.7550(h)(3))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

Footnotes:

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

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

FGBOILERMACTHWG
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

This FG is for the 11 hot water generators and the Trim Boiler associated with the installation of the west paint shop and modernization of the east paint shop. Gas 1 Fuel Subcategory requirements for new Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These new boilers or process heaters must comply with the applicable provisions of this subpart upon startup.

Emission Units:

Less than 5 MMBtu/hr	NA
Equal to or greater than 5 MMBtu/hr and less than 10 MMBtu/hr	EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUDSBCHWG, EUDSSBHWG, EUDSCCHWG
Equal to or greater than 10 MMBtu/hr	EU-TRIMBOILER

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must meet the applicable requirements in paragraphs (a)(1) and (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) and (e) of 40 CFR 63.7500, stated in SC III.2 and SC III.3. The permittee must meet these requirements at all times the affected unit is operating. **(40 CFR 63.7500(a))**

a) The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source. **(40 CFR 63.7500(a)(1))**

b) At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490, stated in SC IX.1), 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))**

2. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards. **(40 CFR 63.7500(b))**

3. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 of 40 CFR Part 63, Subpart DDDDD, or the operating limits in Table

4 of 40 CFR Part 63, Subpart DDDDD. Boilers and process heaters in the units designed to burn gas 1 fuel subcategory with a heat input capacity: (40 CFR 63.7500(e))

- a) Of less than or equal to 5 MMBtu per hour must complete a tune-up every five years as specified in 40 CFR 63.7540, stated in SC IX.8. (40 CFR 63.7500(e))
- b) Greater than 5 MMBtu per hour and less than 10 MMBtu per hour must complete a tune-up every two years as specified in 40 CFR 63.7540, stated in SC IX.8. (40 CFR 63.7500(e))

4. The permittee must demonstrate initial compliance with the applicable work practice standards in Table 3 to 40 CFR Part 63, Subpart DDDDD within the applicable annual, biennial, or 5-year schedule as specified in 40 CFR 63.7515(d), stated in SC III.5, following the initial compliance date specified in 40 CFR 63.7495(a), stated in SC IX.4. Thereafter, you are required to complete the applicable annual, biennial, or 5-year tune-up as specified in 40 CFR 63.7515(d), stated in SC III.5. (40 CFR 63.7510(g))

5. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must:

- a) Conduct the first annual tune-up no later than 13-months after the initial startup of the new or reconstructed boiler or process heater, the first biennial tune-up no later than 25-months after the initial startup of the new or reconstructed boiler or process heater, or the first 5-year tune-up no later than 61-months after the initial startup of the new or reconstructed boiler or process heater.
- b) Conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a; biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b; or 5-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13-months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25-months after the previous tune-up. Each 5-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61-months after the previous tune-up. (40 CFR 63.7515(d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The heat input capacity of each hot water generator in FGBOILERMACT shall not exceed a maximum of 10 MMBtu per hour. (40 CFR Part 63, Subpart DDDDD)

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. (40 CFR 63.7555(a))

- a) A copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). (40 CFR 63.7555(a)(1))
- b) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). (40 CFR 63.7555(a)(2))

2. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 60 or Parts 61, Part 63, or Part 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. (40 CFR 63.7555(h))

3. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). (40 CFR 63.7560(a))
4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. (40 CFR 63.7560(b))
5. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least two years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining three years. (40 CFR 63.7560(c))

VII. REPORTING

1. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.6 through SC VII.8, and in Subpart A of 40 CFR Part 63. (40 CFR 63.7495(d))
2. The permittee must report each instance in which they did not meet each emission limit and operating limit in Tables 1 through 4 to this subpart that applies. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.7550, cited in SC VII.9. (40 CFR 63.7540(b))
3. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. (40 CFR 63.7545(a))
4. As specified in 40 CFR 63.9(b)(2), if the permittee starts up the affected source before January 31, 2013, the permittee must submit an Initial Notification not later than 120 days after January 31, 2013. (40 CFR 63.7545(b))
5. As specified in 40 CFR 63.9(b)(4) and (5), if the permittee starts up the new or reconstructed affected source on or after January 31, 2013, the permittee must submit an Initial Notification not later than 15-days after the actual date of startup of the affected source. (40 CFR 63.7545(c))
6. If the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545, as listed below. (40 CFR 63.7545(f))
 - a) Company name and address. (40 CFR 63.7545(f)(1))
 - b) Identification of the affected unit. (40 CFR 63.7545(f)(2))
 - c) Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. (40 CFR 63.7545(f)(3))
 - d) Type of alternative fuel that the permittee intends to use. (40 CFR 63.7545(f)(4))
 - e) Dates when the alternative fuel use is expected to begin and end. (40 CFR 63.7545(f)(5))
7. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify: (40 CFR 63.7545(g))
 - a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice. (40 CFR 63.7545(g)(1))
 - b) The currently applicable subcategories under 40 CFR Part 63, Subpart DDDDD. (40 CFR 63.7545(g)(2))

- c) The date on which the permittee became subject to the currently applicable emission limits. (40 CFR 63.7545(g)(3))
- d) The date upon which the permittee will commence combusting solid waste. (40 CFR 63.7545(g)(4))
8. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30-days of the switch/change. The notification must identify: (40 CFR 63.7545(h))
- a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. (40 CFR 63.7545(h)(1))
- b) The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. (40 CFR 63.7545(h)(2))
- c) The date upon which the fuel switch or physical change occurred. (40 CFR 63.7545(h)(3))
9. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. (40 CFR 63.7550(a))
10. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, stated in SC VII.12, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. For units that are subject only to a requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c, and not subject to emission limits or operating limits, the permittee may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below, instead of a semi-annual compliance report. (40 CFR 63.7550(b))
- a) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3, and ending on December 31 after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. When submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within 1, 2, or 5-years, as applicable, after the compliance date that is specified in 40 CFR 63.7495. (40 CFR 63.7550(b)(1))
- b) The first semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than March 15. (40 CFR 63.7550(b)(2), 40 CFR 63.7550(b)(5))
- c) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1, 2, or 5-year periods from January 1 to December 31. (40 CFR 63.7550(b)(3))
- d) Each subsequent semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than March 15. (40 CFR 63.7550(b)(4), 40 CFR 63.7550(b)(5))
11. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule. (40 CFR 63.7550(c))
- a) If the facility is subject to the requirements of a tune up the permittee must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of 40 CFR 63.7550. (40 CFR 63.7550(c)(1))
- b) 40 CFR 63.7550(c)(5) is as follows:
- i. Company and Facility name and address. (40 CFR 63.7550(c)(5)(i))

- ii. Process unit information, emissions limitations, and operating parameter limitations. (40 CFR 63.7550(c)(5)(ii))
- iii. Date of report and beginning and ending dates of the reporting period. (40 CFR 63.7550(c)(5)(iii))
- iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Include the date of the most recent burner inspection if it was not done annually, 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))
- v. 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))

12. The permittee must submit the reports according to the procedures specified in paragraph (h)(3) of 40 CFR 63.7550, as listed below. (40 CFR 63.7550(h))

- a) The permittee must submit all reports required by Table 9 of 40 CFR Part 63, Subpart DDDDD electronically to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's CDX.) The permittee must use the appropriate electronic report in CEDRI for 40 CFR Part 63, Subpart DDDDD. Instead of using the electronic report in CEDRI for 40 CFR Part 63, Subpart DDDDD, the permittee may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to 40 CFR Part 63, Subpart DDDDD is not available in CEDRI at the time that the report is due, the permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The permittee must begin submitting reports via CEDRI no later than 90-days after the form becomes available in CEDRI. (40 CFR 63.7550(h)(3))

VIII. STACK/VENT RESTRICTION(S)

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

NA

IV. OTHER REQUIREMENT(S)

1. 40 CFR Part 63, Subpart DDDDD applies to new or reconstructed affected sources as described in paragraph (a)(2) of 40 CFR 63.7490, as listed below. (40 CFR 63.7490(a))
 - a) The affected source of 40 CFR Part 63, Subpart DDDDD is each new or reconstructed industrial, commercial, or institutional boiler or process heater, as defined in 40 CFR 63.7575, located at a major source. (40 CFR 63.7490(a)(2))
2. A boiler or process heater is:
 - a) New if the permittee commences construction of the boiler or process heater after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. (40 CFR 63.7490(b))
 - b) Reconstructed if the permittee meets the reconstruction criteria as defined in 40 CFR 63.2, the permittee commences reconstruction after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commence reconstruction. (40 CFR 63.7490(c))
3. If the permittee has a new or reconstructed boiler or process heater, the permittee must comply with 40 CFR Part 63, Subpart DDDDD by April 1, 2013, or upon startup of each boiler or process heater, whichever is later. (40 CFR 63.7495(a))
4. If the permittee has an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, paragraph (c)(2) of 40 CFR 63.7495, as listed below, applies to the permittee. (40 CFR 63.7495(c))
 - a. Any new or reconstructed boiler or process heater at the existing source must be in compliance with this subpart upon startup. (40 CFR 63.7495(c)(1))

5. The permittee must be in compliance with the work practice standards of 40 CFR Part 63, Subpart DDDDD. (40 CFR 63.7505(a))
6. For affected sources, as defined in 40 CFR 63.7490, that switch subcategory consistent with 40 CFR 63.7545(h), stated in SC VII.8, after the initial compliance date, the permittee must demonstrate compliance within 60 days of the effective date of the switch, unless the compliance demonstration for this subcategory has been conducted within the previous 12 months. (40 CFR 63.7510(k))
7. For affected sources (as defined in 40 CFR 63.7490, stated in SC IX.1) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.8.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.8.d, for units that are not operating at the time of their scheduled tune-up. (40 CFR 63.7515(g))
8. The permittee must demonstrate continuous compliance with the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in paragraphs (a)(10) through (13) of 40 CFR 63.7540, as listed below. (40 CFR 63.7540(a))
- a) If the boiler or process heater has a heat input capacity of 10 MMBtu per hour or greater, the permittee must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. The tune-up must be conducted while burning the type of fuel or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. (40 CFR 63.7540(a)(10))
- i. 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 delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36-months from the previous inspection. 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))
- ii. 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))
- iii. 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). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36-months from the previous inspection. (40 CFR 63.7540(a)(10)(iii))
- iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. (40 CFR 63.7540(a)(10)(iv))
- v. 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))
- vi. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below. (40 CFR 63.7540(a)(10)(vi))
- (1) The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. (40 CFR 63.7540(a)(10)(vi)(A))
- (2) A description of any corrective actions taken as a part of the tune-up. 40 CFR 63.7540(a)(10)(vi)(B))

(3) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. (40 CFR 63.7540(a)(10)(vi)(C))

b) If the boiler or process heater has a heat input capacity of less than 10 MMBtu per hour (except as specified in paragraph (a)(12) of 40 CFR 63.7540), the permittee must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. (40 CFR 63.7540(a)(11))

c) If the boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 MMBtu per hour and the unit is in the units designed to burn gas 1 subcategory, the permittee must conduct a tune-up of the boiler or process heater every five years as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. The permittee may delay the burner inspection specified in paragraph (a)(10)(i) of 40 CFR 63.7540 until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every five years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. (40 CFR 63.7540(a)(12))

d) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. (40 CFR 63.7540(a)(13))

9. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 applies to the permittee. (40 CFR 63.7565)

Footnotes:

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

FGNGWEST
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All natural gas-fired equipment associated with the installation of west paint shop portion of the Warren Truck Assembly Plant, except the emergency generators, including eight hot water generators, air supply houses, space heaters, heated flash, cure ovens, the carbon concentrator, and the RTO. In addition, this FG includes new air supply houses and space heating in the assembly area.

Emission Unit: EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUNEWNGASSEMBLY, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all equipment; RTO for VOC control of spray booths and curing ovens in EUECOAT, EUPRIMER, and EUTOPCOAT; dry filter particulate controls on direct-fired natural gas equipment.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGWEST (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNGWEST unless Low NOx burners are installed, maintained, and operated in a satisfactory manner. (R 336.1205, 40 CFR 52.21(c) & (d))

2. The permittee shall not operate any air handling units, any air supply houses, and any curing ovens in EUECOATWEST, EUPRIMERWEST, and EUTOPCOATWEST in FGNGWEST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter control system includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. (R 336.1205(1)(a) & (b), R 336.1331, 40 CFR 52.21(c) & (d))

3. All air supply houses, air handling units, and E-coat, primer, and topcoat curing oven(s) in FGNGWEST shall be direct-fired units. (R 336.1205, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall 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. (R 336.2908)
2. Based upon the records of the amount of natural gas burned and the U.S. EPA AP-42 emission factor for VOCs from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total VOC emissions for FGNGWEST. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.2908)
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. (R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))

XII. REPORTING

1. Within 60 days of start-up, the permittee shall provide information acceptable to the AQD District Supervisor demonstrating the new Hot Water Generators (HWG), the new air supply houses, and the new space heaters are equipped with Low NOx burners. (R 336.1205(1)(a) & (b))

XIII. 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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter/ Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVPRMOBSWEST</u>	<u>44</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>0. SVBCOBSWEST (BC Observation Zone)</u>	<u>36</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>1. SVCCOBSWEST (CC Observation Zone)</u>	<u>40</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVBTHCONCWEST</u>	<u>68</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>3. SVRTOWEST</u>	<u>58</u>	<u>113</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>4. SVHWG1</u>	<u>16</u>	<u>86</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>5. SVHWG2</u>	<u>16</u>	<u>86</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>6. SVHWG3</u>	<u>16</u>	<u>86</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>7. SVHWG4*</u>	<u>16</u>	<u>45</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>8. SVHWG5*</u>	<u>16</u>	<u>45</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>9. SVHWG6*</u>	<u>16</u>	<u>45</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>10. SVHWG7</u>	<u>16</u>	<u>55</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

<u>11. SVHWG8</u>	<u>16</u>	<u>55</u>	<u>R 336.1225,</u> <u>40 CFR 52.21(c) & (d)</u>
<u>*This stack exhausts horizontally</u>			

IX. OTHER REQUIREMENT(S)

1. Within 30 days of installation, the permittee shall label all natural gas equipment with its respective EU and/or FG name in a manner acceptable to the AQD District Supervisor. (R 336.1205)

Footnotes:

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

FGNEWNGEAST **FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

All natural new gas-fired equipment associated with the refurbishment of east paint shop portion of the Warren Truck Assembly Plant, except the new trim boiler, including hot water generators, air supply houses, cure ovens, the carbon concentrator, and the RTO.

Emission Unit: EU ECOATEAST, EU-COLOR-ONE, EUDSBCHWG, EUDSSBHWG, EUDSCCHWG, EUNEWNGPSEAST

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all equipment. The east concentrator and east RTO for VOC control of spray booths and curing ovens in EU ECOATEAST and EU-COLOR-ONE. Dry filter particulate controls on direct-fired natural gas equipment.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only pipeline quality natural gas in FGNEWNGEAST. (R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNEWNGEAST unless Low NOx burners are installed, maintained, and operated in a satisfactory manner. (R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))
2. The permittee shall not operate the air handling housing in the Basecoat and Clearcoat portions of EU-COLOR-ONE (equal to 34.5 MMBTU/hr) and EUNEWNGPSEAST unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter control system includes conducting the required monitoring and recordkeeping pursuant to SC VI.4. (R 336.1205(1)(a) & (b), R 336.1331, 40 CFR 52.21(c) & (d))
3. All air supply houses, air handling units, and E-coat, primer, topcoat, and sealer curing oven(s) in FGNEWNGEAST shall be direct-fired units. (R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall 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. **(R 336.2908)**
2. Based upon the records of the amount of natural gas burned and the U.S. EPA AP-42 emission factor for VOCs from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total VOC emissions for FGNEWNGEAST. Upon agreement with the AQD District Supervisor alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.2908)**
3. The permittee shall monitor the condition of each particulate control system through weekly visual inspections. The permittee shall keep records of visual inspections of each exhaust filter, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. Within 60 days of start-up, the permittee shall provide information acceptable to the AQD District Supervisor demonstrating the new Hot Water Generators (HWG), the new air supply houses, and the new space heaters are equipped with Low NOx burners. **(R 336.1205(1)(a) & (b))**

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter/ Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
<u>1. SVBC1OBEAST1</u>	<u>41</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>2. SVBC1OBEAST2</u>	<u>41</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>3. SVBC1OBEAST3</u>	<u>41</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>4. SVCC1OBEAST1</u>	<u>34</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>5. SVCC1OBEAST2</u>	<u>33</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>6. SVBTHCONCEAST</u>	<u>60</u>	<u>106</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>7. SVRTOEAST</u>	<u>60</u>	<u>114</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>
<u>8. SVDS1HWG</u>	<u>21.6</u>	<u>84.7</u>	<u>R 336.1225, 40 CFR 52.21(c) & (d)</u>

IX. OTHER REQUIREMENT(S)

1. Within 30 days of installation, the permittee shall label all natural gas equipment with its respective EU and/or FG name in a manner acceptable to the AQD District Supervisor. **(R 336.1205)**

Footnotes:

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

FGNGEMENG
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emergency engines subject to 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines greater than 500 HP constructed on or after January 1, 2009.

Emission Unit: EUNGEN1

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Testing / Monitoring Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>NOx</u>	<u>2.0 g/HP-hr</u> <u>Or</u> <u>160 ppmvd at</u> <u>15% O₂</u>	<u>Hourly</u>	<u>Each EU in</u> <u>FGNGEMENG</u>	<u>SC V.1, SC V.2,</u> <u>SC VI.2, SC VI.3</u>	<u>R 336.1205(1)(a) & (b),</u> <u>40 CFR 52.21(c) & (d),</u> <u>40 CFR 60.4233(e)</u>
2. <u>CO</u>	<u>4.0 g/HP-hr</u> <u>OR</u> <u>540 ppmvd at</u> <u>15% O₂</u>	<u>Hourly</u>	<u>Each EU in</u> <u>FGNGEMENG</u>	<u>SC V.1, SC V.2,</u> <u>SC VI.2, SC VI.3</u>	<u>R 336.1205(1)(a) & (b),</u> <u>40 CFR 52.21(c) & (d),</u> <u>40 CFR 60.4233(e)</u>
3. <u>VOC</u>	<u>0.50 g/HP-hr^{c,d}</u>	<u>Hourly</u>	<u>Each EU in</u> <u>FGNGEMENG</u>	<u>SC V.1, SC V.2,</u> <u>SC VI.4</u>	<u>R 336.1205(1)(a) & (b),</u> <u>R 336.2908,</u> <u>40 CFR 60.4233(e)</u>

^c For compliance purposes, this limit includes formaldehyde for Nonattainment New Source Review, but does not include formaldehyde for the NSPS.

^d This emission limit has subsumed the emission limit required in 40 CFR 60 Subpart JJJJ, Table 1.

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGEMENG. (R 336.1205(1)(a), R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), R 336.2908, 40 CFR 60.4233)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any EU in FGNGEMENG for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the 100 hours as described in SC III.2. (R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))

2. The permittee may operate any EU in FGNGEMENG for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. (40 CFR 60.4243(d)(2))

3. Each EU in FGNGEMENG may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as described in SC III.2. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. (40 CFR 60.4243(d)(3))
4. The permittee shall operate and maintain each EU in FGNGEMENG such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. (40 CFR 60.4234, 40 CFR 60.4243(b))
5. If any EU in FGNGEMENG is operated as a certified engine, according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for each respective engine:
 - a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b) Meet the requirements as specified in 40 CFR 1068 Subparts A through D, as applicable, including labeling and maintaining certified engines according to the manufacturer's recommendations.
 - c) Only change those engine settings that are permitted by the manufacturer.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and be subject to SC III.6. (40 CFR 60.4243(b)(1))
6. If any EU in FGNGEMENG is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee shall keep a maintenance plan for each respective EU and shall, to the extent practicable, maintain, and operate each respective EU in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR 60.4243(b)(2))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGNGEMENG with a non-resettable hours meter to track the operating hours. (R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4237(a))
2. The nameplate capacity of each EU in FGNGEMENG shall not exceed 574 kW (770 HP), as certified by the equipment manufacturer. (R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4230)
3. The emergency engines in FGNGEMENG shall be 4-stroke rich-burn engines.¹ (R 336.1225)

V. TESTING/SAMPLING

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

1. If any EU in FGNGEMENG is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60 Subpart JJJJ, the permittee must demonstrate compliance as follows:
 - a) Conduct an initial performance test to demonstrate compliance with the applicable emission limits in SC I.1, I.2, and I.3 within 60 days after achieving the maximum production rate at which the respective EU will be operated, but not later than 180 days after initial startup of the respective EU, or within one year after the respective EU is no longer operated as a certified engine.
 - b) The performance tests shall consist of three separate test runs of at least 1 hour, for each performance test required in 40 CFR 60.4244 and Table 2 to Subpart JJJJ of Part 60.
 - c) Subsequent performance testing shall be completed every 8,760 hours of engine operation or every three years, whichever comes first, to demonstrate compliance with the applicable emission limits.

If a performance test is required, no less than 30 days prior to testing, a complete test plan shall be submitted to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205(1)(a),

R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21 (c) & (d), 40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 40 CFR Part 60 Subpart JJJJ)

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify VOC mass emissions from representative EUs in FGNGEMENG by testing at owner's expense, in accordance with Department requirements. Alternatively, one EU may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Testing shall be performed using approved EPA Method(s) listed in

<u>Pollutant</u>	<u>Test Method Reference</u>
<u>VOC</u>	<u>40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A</u>

Alternate method(s), or a modification to the approved EPA Method(s), may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, the following records for each EU in FGNGEMENG:
 - a) If certified: The permittee shall keep records of the documentation from the manufacturer that the respective EU is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
 - b) If non-certified: The permittee shall keep records of testing required in SC V.1.

The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e), 40 CFR 60.4243, 40 CFR 60.4245(a))**

2. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGNGEMENG:
 - a) If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that the respective EU has been maintained according to them, as specified in SC III.5.
 - b) If non-certified: The permittee shall keep records of a maintenance plan, as required by SC III.6 and records of conducted maintenance.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4243, 40 CFR 60.4245(a), 40 CFR Part 60 Subpart JJJJ)**

3. The permittee shall monitor and record the total hours of operation for each EU in FGNGEMENG. The permittee shall document how many hours are spent for emergency operation of each EU in FGNGEMENG including what classified the operation as emergency. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4243, 40 CFR 60.4245(b))**
4. The permittee shall keep records of notifications submitted for the completion of construction and start-up of each EU in FGNGEMENG. **(40 CFR 60.4245(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify

the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each EU in FGNGEMENG. (R 336.1216(1)(a)(v), R 336.1201(7)(a))

- 2. The permittee shall submit a notification specifying whether each EU in FGNGEMENG will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of each EU in FGNGEMENG and within 30 days of switching the manner of operation. (40 CFR Part 60 Subpart JJJJ)
- 3. If any EU in FGNGEMENG has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231, the permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following information:
 - a) The date construction of the respective EU commenced.
 - b) Name and address of the owner or operator.
 - c) The address of the affected source.
 - d) The respective EU information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement.
 - e) The respective EU emission control equipment.
 - f) Fuel used in the respective EU.

The notification must be postmarked no later than 30 days after construction commenced for the respective EU. (40 CFR 60.7(a)(1), 40 CFR 60.4245(c))

- 4. The permittee shall submit an initial notification as required in 40 CFR 63.6645(f) for each EU in FGNGEMENG. The notification must include the information in 40 CFR 63.9(b)(2)(i)-(v):
 - a) The name and address of the owner or operator.
 - b) The address (i.e., physical location) of the affected source.
 - c) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date.
 - d) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted.
 - e) A statement of whether the affected source is a major source or an area source.

The notification must also include a statement that each EU in FGNGEMENG has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). (40 CFR 63.9(b)(2)(i)-(v), 40 CFR 63.6590(b)(1), 40 CFR 63.6645(f))

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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Diameter / Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVNGGEN	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subpart A and Subpart JJJJ, as they apply to FGNGEMENG. (40 CFR Part 60 Subparts A & JJJJ)

2. The permittee shall comply with the provisions of the federal National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as specified in 40 CFR Part 63 Subpart A and Subpart ZZZZ, as they apply to FGNGEMENG. (40 CFR Part 63 Subparts A & ZZZZ)

Footnotes:

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

**FG-CI-RICE-MACT4Z<500HP
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

FG-CI-RICE-MACT4Z<500HP aka FG63-4Z-M/Ex/CI/Em/<500: Existing CI (Diesel) Engines located at a Major Source 266 HP < 500 HP, Emergency

Emission Unit: EU-ENG-FPH1

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Each engine in FG63-4Z-M/Ex/CI/Em/<500 shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63 Subpart ZZZZ Table 2c:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.2.
 - b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the emergency engine is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required, the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63 Subpart ZZZZ Table 2c, Item 6)**

2. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c of 40 CFR Part 63 Subpart ZZZZ. **(40 CFR 63.6625(i))**
3. The permittee shall install, maintain and operate each engine in FG63-4Z-M/Ex/CI/Em/<500 and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own

maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6605, 40 CFR 63.6625(e))**

4. The permittee shall minimize the time spent at idle during startup and minimize the startup time of each engine in FG63-4Z-M/Ex/CI/Em/<500 to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. **(40 CFR 63.6625(h))**
5. The permittee shall not allow each engine in FG63-4Z-M/Ex/CI/Em/<500 to exceed 100 hours per calendar year for maintenance checks and readiness testing and emergency demand response. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. **(40 CFR 63.6640(f)(2))**
6. The permittee may operate each engine in FG63-4Z-M/Ex/CI/Em/<500 up to 50 hours per calendar year for non-emergency situations, but those hours are to be counted towards the 100 hours per calendar year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(2). **40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install a non-resettable hour meter on each engine in FG63-4Z-M/Ex/CI/Em/<500. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

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

1. If using the oil analysis program, the permittee must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within two business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within two business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. **(40 CFR 63.6625(i))**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. For each engine in FG63-4Z-M/Ex/CI/Em/<500 the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**
2. For each engine in FG63-4Z-M/Ex/CI/Em/<500 the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall

keep all records on file and make them available to the department upon request. (40 CFR 63.6655(f), 40 CFR 63.6660)

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- 2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of Subpart ZZZZ along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in Subpart ZZZZ, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. (40 CFR 63.6650(f))

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, for Stationary Reciprocating Internal Combustion Engines by the initial compliance date. (40 CFR 63.6595(a)(2), 40 CFR Part 63 Subparts A and ZZZZ)

Footnotes:

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

**FG-CI-RICE-MACT4Z>500HP
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

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

Emission Units: EU-ENG-SMB1 (900 HP) and EU-ENG-SMB2 (900 HP)

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not allow the engine(s) to exceed 100 hours for maintenance checks and readiness testing and emergency demand response. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(1)(ii))**
2. The permittee may operate the engines up to 50 hours per year for non-emergency situations, but those hours are to be counted towards the 100 hrs./year for maintenance and testing and emergency demand response, as allowed in 40 CFR 63.6640(f)(3). **(40 CFR 63.6640(f)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

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

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. 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, as specified in 40 CFR, Part 63, Subpart A and Subpart ZZZZ, for Stationary Reciprocating Internal Combustion Engines by the initial compliance date. **(40 CFR 63.6595(a)(2), 40 CFR Part 63 Subparts A and ZZZZ)**
2. There is no time limit on the use of emergency stationary RICE in emergency situations.

Footnotes:

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

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

**FG-CI-RICE-NSPS4I<500
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

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

Emission Unit: EU-ENG-FPH2 (305 HP, 1/1/2011) Fire Pump emergency engine

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NHMC + NOx	4.0 g/KW-hr or 3.0 g/HP-hr	Test Protocol*	EU-ENG-FPH2	NA	40 CFR 60.4205(c) Table 4
	10.5 g/KW-hr** or 7.8 g/HP-hr	Test Protocol*	EU-ENG-FPH2	NA	40 CFR 60.4205(c) Table 4
2. PM	0.2 g/KW-hr or 0.15 g/HP-hr	Test Protocol*	EU-ENG-FPH2	NA	40 CFR 60.4205(c) Table 4
	0.54 g/KW-hr** or 0.40 g/HP-hr	Test Protocol*	EU-ENG-FPH2	NA	40 CFR 60.4205(c) Table 4
3. CO	3.50g/KW-hr** or 2.6 g/HP-hr	Test Protocol*	EU-ENG-FPH2	NA	40 CFR 60.4205(c) Table 4

*Manufacturer certification demonstrates compliance with emission limits.

**For model years 2009-2011 with rated speed > 2650 rpm

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel, in EU-ENG-FPH2 with the maximum sulfur content of 15 ppm (0.0015 percent or 15 ppm S ULSD) by weight. **(40 CFR 60.4207, 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee may operate EU-ENG-FPH2 for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per year. EU-ENG-FPH2 may operate up to 50 hours per year in non-emergency situations, but those 50

hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4211(f))**

2. The permittee shall operate and maintain EU-ENG-FPH2 such that it meets the emission limits in SC I.1 -3 over the entire life of the engine. **(40 CFR 60.4206, 60.4208)**
3. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60 Subpart IIII, for the same model year, the permittee shall meet the following requirements for EU-ENG-FPH2:
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b. Keep a maintenance plan and the permittee may only change those engine settings that are permitted by the manufacturer. If you do not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. **(40 CFR 60.4211)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. EU-ENG-FPH2 shall be equipped with a non-resettable hour meter. **(40 CFR 60.4209)**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep records of the hours of operation for emission unit EU-ENG-FPH2 through a non-resettable hour meter. The permittee must document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. **(40 CFR 60.4211(f))**
2. The permittee shall keep records of all notifications submitted to comply with this subpart and all documentation supporting any notification. **(40 CFR 60.4214)**
3. The permittee shall keep records of maintenance conducted to demonstrate compliance. **(40 CFR 60.4211(g))**
4. The permittee shall keep records of documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054 and 1060, as applicable. **(40 CFR 60.4211(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:

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

IX. OTHER REQUIREMENT(S)

1. There is no time limit on the use of emergency stationary RICE in emergency situations. . **(40 CFR 60.4211(f))**

Footnotes:

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

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

FGPSWEST/NEWEAST
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All process equipment associated with the installation of the west paint shop and modernization of the east paint shop, body shop, and final assembly.

Emission Unit ID: EUPRETREATWEST, EUECOATWEST, EUPRIMERWEST, EUTOPCOATWEST, EUPURGE CLEANWEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUECOATEAST, EUPWDRPRMEAST, EUPURGE CLEAN EAST, EUSEALERS, EUSPOTREPAIREAST, EUFINALREPAIR, EUFLUIDFILL, EU-COLOR-ONE, EU-REPROCESS, EU-REPROCESS, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUDSBCHWG, EUDSSBHWG, EUDSSCHWG, EUNEWNGASSEMBLY, EUNEWNGPSEAST, EUNGGEN1, EU-TRIMBOILER

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

IV. MATERIAL LIMIT(S)

NA

V. PROCESS/OPERATIONAL RESTRICTION(S)

NA

VI. DESIGN/EQUIPMENT PARAMETER(S)

NA

VII. TESTING/SAMPLING

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

NA

VIII. MONITORING/RECORDKEEPING

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

NA

IX. REPORTING

~~Within seven days of starting production of saleable vehicles in the west paint shop portion of FGPSWEST/NEWEAST, the permittee shall notify the AQD District Supervisor, in writing, as to the date of the start of saleable vehicle production. **(R 336.1205)**~~

1. The permittee shall provide written notification of construction and operation to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR 60.7. The permittee shall submit this notification to the AQD District Supervisor within the timeframes specified in 40 CFR 60.7. (40 CFR 60.7)
3. ~~Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of FGPSWEST/NEWEAST. (R 336.1216(1)(a)(v), R 336.1201(7)(a))~~

STACK/VENT RESTRICTION(S)

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

NA

VII. OTHER REQUIREMENT(S)

1. 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(1). 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. (R 336.1225(4))
2. The following emission limits in EU ECOATEAST, EU-COLOR-ONE, and EUPURGE CLEAN EAST shall become applicable upon startup of any emission unit associated with the Warren Truck West Paint Shop (including but not limited to: EUPRETREATWEST, EU ECOATWEST, sealers applied in the West Paint Shop portion of EUSEALERS, EUPRIMERWEST, EUTOPCOATWEST, EUPURGE CLEAN WEST, EUBODYWIPEWEST, EUSPOTREPAIRWEST, EUSPOTPRIMEWEST1, EUSPOTPRIMEWEST2, EUNEWNGASSEMBLY, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8). (R 336.2908)
 - a) SC I.7 for EU ECOATEAST.
 - b) SC I.12 for EU-COLOR-ONE.
 - c) SC I.5 for EUPURGE CLEAN EAST.

Footnotes:

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

FG-COLD-CLEANERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: The permittee shall maintain an up-to-date list of cold-cleaners.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Cleaned parts shall be drained for no less than 15 seconds or until dripping ceases. **(R 336.1611(2)(b), R 336.1707(3)(b))**
2. The permittee shall perform routine maintenance on each cold cleaner as recommended by the manufacturer. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:
 - a. The air/vapor interface of the cold cleaner is no more than ten square feet. **(R 336.1281(h))**
 - b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment. **(R 336.1285(r)(iv))**
2. The cold cleaner shall be equipped with a device for draining cleaned parts. **(R 336.1611(2)(b), R 336.1707(3)(b))**
3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner. **(R 336.1611(2)(a), R 336.1707(3)(a))**
4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated. **(R 336.1707(3)(a))**
5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:

- a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7. **(R 336.1707(2)(a))**
- b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0. **(R 336.1707(2)(b))**
- c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD. **(R 336.1707(2)(c))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions. **(R 336.1213(3))**
2. The permittee shall maintain the following information on file for each cold cleaner: **(R 336.1213(3))**
 - a. A serial number, model number, or other unique identifier for each cold cleaner.
 - b. The date the unit was installed, manufactured or that it commenced operation.
 - c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(h).
 - d. The applicable Rule 201 exemption.
 - e. The Reid vapor pressure of each solvent used.
 - f. If applicable, the option chosen to comply with Rule 707(2).
3. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner. **(R 336.1611(3), R 336.1707(4))**
4. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis. **(R 336.1213(3), R 336.1611(2)(c), R 336.1707(3)(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. 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 maintain an up-to-date list of cold-cleaners. The list shall be updated at least annually.

FG-RULE-290 FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: The permittee shall maintain an up-to-date list of Rule 290 sources.

POLLUTION CONTROL EQUIPMENT

The permittee shall maintain a description of each control equipment.

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds or noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone if the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(i))**
2. Each emission unit that the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: **(R 336.1290(a)(ii))**
 - a. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(ii)(A))**
 - b. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 microgram per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(B))**
 - c. For carcinogenic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(C))**
 - d. The emission unit shall not emit any air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. **(R 336.1290(a)(ii)(D))**
3. Each emission unit that emits only noncarcinogenic particulate air contaminants and other air contaminants that are exempted under Rule 290(a)(i) and/or Rule 290(a)(ii), if all of the following provisions are met: **(R 336.1290(a)(iii))**
 - a. The particulate emissions are controlled by an appropriately designed and operated fabric filter collector or an equivalent control system which is designed to control particulate matter to a concentration of less than or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have an exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(a)(iii)(A))**

- b. ~~The visible emissions from the emission unit are not more than five percent opacity in accordance with the methods contained in Rule 303. (R 336.1290(a)(iii)(B))~~
- e. ~~The initial threshold screening level for each particulate air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. (R 336.1290(a)(iii)(C))~~

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

- 1. ~~The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the DEQ, AQD Rule 290, Permit to Install Exemption Record form (EQP 3558) or in a format that is acceptable to the AQD District Supervisor. (R 336.1213(3))~~
 - a. ~~Records identifying each air contaminant that is emitted. (R 336.1213(3))~~
 - b. ~~Records identifying if each air contaminant is controlled or uncontrolled. (R 336.1213(3))~~
 - e. ~~Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. (R 336.1213(3))~~
 - d. ~~Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(a)(ii) and (iii). (R 336.1213(3))~~
 - e. ~~Material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in sufficient detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. (R 336.1213(3), R 336.1290(c))~~
- 2. ~~The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. (R 336.1213(3))~~
 - a. ~~The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. (R 336.1290(b), R 336.1213(3))~~
 - b. ~~For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate. (R 336.1213(3))~~
- 3. ~~For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating~~

conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. ~~(R 336.1213(3))~~

See Appendix 4

If the permittee chooses to use record form EQP 3558 for its Rule 290 emission unit(s), the permittee has the option of placing the form in Appendix 4 of the ROP. The latest version of the form is available on the MDEQ AQD website. The permittee is not required to include record form EQP 3558 in their ROP.

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 maintain an up-to-date list of Rule 290 processes along with description of processes and control equipment. The list shall be updated at least annually. (R 336.1278a)~~
- 2. ~~The permittee shall perform Rule 278 analysis. (R 336.1278)~~

FGRULE290
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Units installed on or after December 20, 2016:

NA

Emission Units installed prior to December 20, 2016:

NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds or noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, if the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively. (R 336.1290(2)(a)(i))
2. Any emission unit for which CO₂ equivalent emissions are not more than 6,250 tons per month and for which the total uncontrolled or controlled emissions of all other air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: (R 336.1290(2)(a)(ii))
 - a. For toxic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 micrograms per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. (R 336.1290(2)(a)(ii)(A))
 - b. For toxic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. (R 336.1290(2)(a)(ii)(B))
 - c. The emission unit shall not emit any toxic air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. (R 336.1290(2)(a)(ii)(C))
 - d. For total mercury, the uncontrolled or controlled emissions shall not exceed 0.01 pounds per month from emission units installed on or after December 20, 2016. (R 336.1290(2)(a)(ii)(D))
 - e. For lead, the uncontrolled or controlled emissions shall not exceed 16.7 pounds per month from emission units installed on or after December 20, 2016. (R 336.1290(2)(a)(ii)(E))
3. Any emission unit that emits only particulate air contaminants without initial risk screening levels and other air contaminants that are exempted under Rule 290(2)(a)(i) or Rule 290(2)(a)(ii), if all the following provisions are met: (R 336.1290(2)(a)(iii))
 - a. The particulate emissions are controlled by an appropriately designed and operated fabric filter collector or an equivalent control system which is designed to control particulate matter to a concentration of less than or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have exhaust gas flow rate more than 30,000 actual cubic feet per minute. (R 336.1290(2)(a)(iii)(A))
 - b. The visible emissions from the emission unit are not more than 5% opacity in accordance with the methods contained in Rule 303. (R 336.1290(2)(a)(iii)(B))
 - c. The initial threshold screening level for each particulate toxic air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. (R 336.1290(2)(a)(iii)(C))

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

2. The following requirements apply to emission units installed on or after December 20, 2016, utilizing control equipment:
 - a. An air cleaning device for volatile organic compounds shall be installed, maintained, and operated in accordance with the manufacturer's specifications. Examples include the following: (R 336.1290(2)(b)(i), R 336.1910)
 - i. Oxidizers and condensers equipped with a continuously displayed temperature indication device.
 - ii. Wet scrubbers equipped with a liquid flow rate monitor.
 - iii. Dual stage carbon absorption where the first canister is monitored for breakthrough and replaced if breakthrough is detected.
 - b. An air cleaning device for particulate matter shall be installed, maintained, and operated in accordance with the manufacturer's specifications or the permittee shall develop a plan that provides to the extent practicable for the maintenance and operation of the equipment in the manner consistent with good air pollution control practices for minimizing emissions. It shall also be equipped to monitor appropriate indicators of performance, for example, static pressure drop, water pressure, and water flow rate. (R 336.1290(2)(b)(ii), R 336.1910)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the EGLE, AQD Rule 290; Permit to Install Exemption Record form (EQP 3558) or in a format that is acceptable to the AQD District Supervisor. (R 336.1213(3))
 - a. Records identifying each air contaminant that is emitted. (R 336.1213(3))
 - b. Records identifying if each air contaminant is controlled or uncontrolled. (R 336.1213(3))
 - c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. (R 336.1213(3))
 - d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(2)(a)(ii) and (iii). (R 336.1213(3))
 - e. Records of material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in enough detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. Volatile organic compound emissions from units installed on or after December 20, 2016, shall be calculated using mass balance, generally accepted engineering calculations, or another method acceptable to the AQD District Supervisor. (R 336.1213(3), R 336.1290(2)(d))
 - f. Records are maintained on file for the most recent 2-year period and are made available to the department upon request. (R 336.1213(3), R 336.1290(2)(e))
2. The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. (R 336.1213(3))
 - a. The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. (R 336.1290(2)(c), R 336.1213(3))

- b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate. (R 336.1213(3))
3. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. (R 336.1213(3))

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

**FG-RULE-287(c)
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 287(c).

Emission Unit: The permittee shall maintain an up-to-date list of 287(c) booths.

POLLUTION CONTROL EQUIPMENT

Each booth shall be equipped with a dry filter system or equivalent.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Underlying Applicable Requirement
Coatings	200 Gallons per month	Per month, as applied, minus water, per emission unit	FG-RULE-287(c)	R 336.1287(c)(i)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Any exhaust system that serves only coating spray equipment shall be equipped with a properly installed and operating particulate control system. (R 336.1287(c)(ii))

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the DEQ, AQD Rule 287(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(c)(iii))

b. Documentation of any filter replacements for exhaust systems serving coating spray equipment. (R 336.1213(3))

See Appendix 4

~~If the permittee chooses to use record form EQP 3562 for its Rule 287(c) emission unit(s), the permittee has the option of placing the form in Appendix 4 of the ROP. The latest version of the form is available on the MDEQ AQD website. The permittee is not required to include record form EQP 3562 in their ROP.~~

~~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~~

FGRULE287(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:

NA

Emission Units installed prior to December 20, 2016:

NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

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

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

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

See Appendix 4

VII. REPORTING

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FGFACILITY CONDITIONS

DESCRIPTION: The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

The west concentrator and west RTO used for control of VOC emissions from EUPRIMERWEST spray booth and flash-off areas, EUTOPCOATWEST spray booth and flash-off areas, and solvent borne purge materials from west primer and west clearcoat booths not captured in the purge collection system. The west RTO only used for control of VOC emissions from the EUECOATWEST tank and curing oven, EUPRIMERWEST curing oven, and EUTOPCOATWEST curing oven. The east concentrator and east RTO used for control of VOC emissions from EU-COLOR-ONE spray booth and flash-off areas. The east RTO only used for control of VOC emissions from EUECOATWEST tank and curing oven. A thermal oxidizer used for control of VOC emissions from the EU-COLOR-ONE cure oven. A thermal oxidizer used for control of VOC emissions from the cure oven of EU-REPROCESS. Waterwash particulate control systems on all paint spray booths and observation zones. Dry filter particulate control systems on all sanding and repair booths and all flash-off areas. Dry filter particulate control systems on all air supply housing (ASH), air handling units (AHU), space heating units, and all curing ovens in the E-coat, primer, and topcoat operations.

<u>I. EMISSION LIMIT(S) Pollutant</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring / Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. NOx</u>	<u>150.65 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC V.2, SC VI.2</u>	<u>R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d)</u>
<u>2. CO</u>	<u>161.7 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC VI.2</u>	<u>R 336.1205(1)(a) & (b), R 336.2802(4)(d)</u>
<u>3. PM</u>	<u>29.96 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC V.1, SC VI.3</u>	<u>R 336.1205(1)(a) & (b), R 336.2802(4)(d)</u>
<u>4. PM10</u>	<u>20.55 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC V.1, SC VI.3</u>	<u>R 336.1205(1)(a) & (b), R 336.2802(4)(d)</u>
<u>5. PM2.5</u>	<u>18.05 tpy</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC V.1, SC VI.3</u>	<u>R 336.1205(1)(a) & (b), R 336.2802(4)(d)</u>

II. MATERIAL LIMIT(S)

1. The total combined natural gas usage for FGFACILITY shall not exceed 3,850.0 MMcf per year on a 12-month rolling time period basis as determined at the end of each calendar month. (R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d))

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates of representative units, which includes but is not limited to, the observation zones, the concentrators, and the thermal oxidizer portions of EU-COLOR-ONE and EU-REPROCESS, by testing at owner's expense, in accordance with Department requirements. The hourly emission rate during testing shall be determined by the average of the acceptable test runs per the method requirements. Testing shall be performed using an approved EPA Method listed in the following Reference Test Method Table. Testing shall be repeated at least once every five years, unless the permittee has submitted a demonstration that the most recent acceptable test remains valid and representative. Alternatively, the permittee may request approval from the AQD District supervisor to use other similar test results for compliance purposes.

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

Reference Test Method Table

PM

PM10/PM2.5

Test Method Reference

40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules

40 CFR Part 51, Appendix M

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify NOx emission rates from representative natural gas combustion units, the concentrator, and RTO portions of FGFACILITY, as agreed to by the AQD District Supervisor, by testing at owner's expense, in accordance with Department requirements. One EU (or portion of an EU) may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Alternatively, the permittee may submit vendor guarantees for NOx emission rates from representative emission units in a manner acceptable to the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1205, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21(c) & (d))

VI. MONITORING/RECORDKEEPING

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

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. (R 336.1205(1))

2. Based upon the records of the amount of natural gas burned and the tested emission factors for NOx and CO from the combustion of natural gas, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total NOx and CO emission rates for FGFACILITY, as required by SC I.1 and SC I.2. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d))

3. Based upon the records of the amount of natural gas burned and the tested emission factors for PM, PM10, and PM2.5 from the combustion of natural gas and representative units, the permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total PM, PM10, and PM2.5 emission rates for FGFACILITY, as required by SC I.3 and SC I.4. Upon agreement with the AQD District Supervisor, alternative emission factors or calculation methods may be used. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(1)(a) & (b), R 336.2802(4)(d))

4. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million cubic feet for FGFACILITY. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(1)(a) & (b), R 336.2802(4)(d), R 336.2902(2)(d), 40 CFR 52.21(c) & (d))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

E. NON-APPLICABLE REQUIREMENTS

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

APPENDICES

Appendix 1. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H ₂ S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO _x	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM10	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SEMI	Southeast Michigan	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 this ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. (R 336.1213(4)(a), R 336.1119(a)(ii))

Appendix 3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in ~~EU-Uniprime~~, ~~EU-Tutone~~, and ~~FG-Topcoat~~.

Elements of an O&M plan – CAM

General – Keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for each respective control device used to demonstrate compliance with applicable VOC emissions limits.

TO's

- Validation of thermocouple accuracy or recalibration of each thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
- Perform a heat exchanger visual internal inspection a minimum of once every 18 months.

RTO's

- Validation of thermocouple accuracy or recalibration of each thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
- Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.*
- Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.*

Rotary RTO's

- Validation of thermocouple accuracy or recalibration of each thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
- Rotational monitoring to detect non rotation during operation.
- Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.*
- Perform an inspection of the valve seals condition a minimum of once every 18 months.*

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

Appendix 4. Recordkeeping

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

Appendix 5. Testing Procedures

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

Appendix 6. Permits to Install

At the time of permit issuance, no Permits to Install have been issued to this facility. Therefore, this appendix is not applicable.

Appendix 7. Emission Calculations

The permittee shall use the following calculations methods as guidance in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in EU-Blackout Booth, EU-MechWasher, EU-Solvent Wipe, EU-Tutone, EU-Uniprime, EU-Final Repair, EU-Fluid Fill, EU-Sealers&Adhesive, EU and FG-Topcoat. These calculations are to be used to estimate the emission rate that are utilized in the compliance demonstrations; however, not all calculated values have an underlying applicable requirement (e.g., monthly VOC emissions are utilized to calculate hourly VOC emissions though there is no limit on monthly VOC emissions). Material usage and VOC content are with water unless otherwise noted. Alternate calculation methods may be utilized where acceptable to the AQD. The AQD does not require a specific format to be used for submittal and currently used formats are considered acceptable unless notified in writing by the AQD.

VOC Emissions – Monthly Calculation (lbs./month) for Emission Units without Controls:

Pounds VOC/month = total material usage (gallons/month) * VOC content (lbs./gal)

VOC Emissions – Monthly Calculation (lbs./month) for Emission Units with Controls:

Pounds VOC/month = total material usage (gal/month) * VOC content (lbs./gal) * [(1- capture eff.) + capture eff. * (1-control eff.)]

VOC hourly Emission Calculation Averaged over a Month period (lbs./hr):

Pounds VOC/Hour = (Pounds VOC/month) / (monthly hours of operation)

VOC Annual Emission Calculation based on a 12-Month rolling period (Tons/yr.):

Tons VOC/Year = $\sum_{N=12} (\text{Pounds VOC/month})_n / (2000 \text{ pounds/ton})$

VOC Emission Rate Pounds of VOC per Gallon of Coating Minus Water (lbs./gal (minus water)):

The calculation procedure described in special conditions for each emission unit and R 336.2041.

VOC Emission Rate Pounds per gallon Applied Solids Calculation (lbs./gal applied solids):

The calculation procedure described in EPA Protocol 453/R-08-002.

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the MDEQ, AQD, Report Certification form (EQP 5736) and MDEQ, 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.