FedEx: 775181015095
Direct Signature Request

Detroit-Hamtramck Assembly
2500 East Grand Boulevard
Detroit, MI 48211-2002

December 11, 2015

Ms. Kirsten Clemens
MDEQ - Air Quality Division
Cadillac District Office
120 West Chapin St
Cadillac, MI 49601

RE: Notification of Rule 216 Amendment/Modification Application

Dear Ms. Clemens,

General Motors, LLC is submitting to your attention a Michigan Rule 216 Amendment/Modification requirement for incorporating the terms and conditions of permit to install No. 91-15 into the renewable operating permit MI-ROP-M4199-2010 for the GM Detroit-Hamtramck Assembly located at 2500 E. General Motors Blvd. Detroit, Michigan. This submittal also updates the ROP renewal application submitted on June 27, 2014.

Please find enclosed, applicable notification forms M-001: Rule 216 Amendment/Modification Application, AI-001 (91-15): Additional Information form, C-001: Certification form and supporting documentation and Redlined version of ROP permit number MI-ROP-M4199-2010.

If you have any questions, please contact Meghan Kennedy at (248) 409-8974 or Jennifer Tegen at (810) 706-1319.

Sincerely,

Gary L. West
Plant Manager

Enclosures

cc: U. Sam Amer, MDEQ-AQD Detroit District Office (FedEx: 775180966072)
Michelle Rogers, MDEQ-AQD Permitting Section Thermal-Chemical Process Unit (FedEx: 775181050947)
Meghan Kennedy, GECS Detroit-Hamtramck Assembly
Jennifer Tegen, GECS Facility Air Compliance & Permit

Michigan Department Of Environmental Quality - Air Quality Division

RENEWABLE OPERATING PERMIT APPLICATION
C-001: CERTIFICATION

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

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

Form Type **C-001**	SRN M4199

Stationary Source Name General Motors, LLC Deteroit-Hamtramck Assembly	
City Detroit	County Wayne

SUBMITTAL CERTIFICATION INFORMATION

1. Type of Submittal *Check only one box.*

☐ Initial Application (Rule 210) ☒ Notification / Administrative Amendment / Modification (Rules 215/216)

☐ Renewal (Rule 210) ☐ Other, describe on AI-001

2. If this ROP has more than one Section, list the Section(s) that this Certification applies to 2

3. Submittal Media ☒ E-mail ☐ FTP ☐ Disk ☒ Paper

4. Operator's Additional Information ID - Create an Additional Information (AI) ID that is used to provide supplemental information on AI-001 regarding a submittal.

AI 91-15

CONTACT INFORMATION

Contact Name Jennifer Tegen	Title Staff Environmental Engineer
Phone number 810-706-1319	E-mail address jennifer.tegen@gm.com

This form must be signed and dated by a Responsible Official.

Responsible Official Name Gary L. West			Title Plant Manager	
Mailing address 2500 E. General Motors Blvd.				
City Detroit	State MI	ZIP Code 48211-2002	County Wayne	Country USA

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

Gary L. West — Signature of Responsible Official

12-11-2015 — Date

Michigan Department of Environmental Quality
Air Quality Division

RENEWABLE OPERATING PERMIT
M-001: RULE 215 CHANGE NOTIFICATION
RULE 216 AMENDMENT/MODIFICATION APPLICATION

This information is required by Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, 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.

1. SRN M4199	2. ROP Number MI-ROP-M4199-2010	3. County Wayne
4. Stationary Source Name	General Motors, LLC Detroit-Hamtramck Assembly	
5. Location Address	2500 E. General Motors Blvd.	6. City Detroit

7. Submittal Type - *The submittal must meet the criteria for the box checked below. Check only one box. Attach a mark-up of the affected ROP pages for applications for Rule 216 changes.*

RECEIVED
DEC 14 2015
AIR QUALITY DIV.

- ☐ **Rule 215(1) Notification of change.** *Complete Items 7 – 10.*
- ☐ **Rule 215(2) Notification of change.** *Complete Items 7 – 10.*
- ☐ **Rule 215(3) Notification of change.** *Complete Items 7 – 11.*
- ☐ **Rule 216(1)(a)(i)-(iv) Administrative Amendment.** *Complete Items 7 – 10.*
- ☐ **Rule 216(1)(a)(v) Administrative Amendment.** *Complete Items 7 – 13. Results of testing, monitoring & recordkeeping must be submitted. See detailed instructions.*
- ☒ **Rule 216(2) Minor Modification.** *Complete Items 7 – 12.*
- ☐ **Rule 216(3) Significant Modification.** *Complete Items 7 – 12 and provide any additional information needed on ROP application forms. See detailed instructions.*
- ☐ **Rule 216(4) State-Only Modification.** *Complete Items 7 – 12.*

8. Effective date of the change. (MM/DD/YYYY) 07/14/2015

9. Change in emissions? ☒ Yes ☐ No

10. Description of Change - *Describe any changes or additions to the ROP, including any changes in emissions and/or pollutants that will occur. If additional space is needed, complete an Additional Information form (AI-001).*

General Motors, LLC is requesting a Rule 216(2) minor modification to roll-in recently issued PTI 91-15 into MI-ROP-M4199-2010. This updates ROP Renewal Application 06/24/2014. See AI 91-15 for additional information.

11. New Source Review Permit(s) to Install (PTI) associated with this application? ☒ Yes ☐ No

If Yes, enter the PTI Number(s) 91-15 ____ ____ ____ ____

12. Compliance Status - *A narrative compliance plan, including a schedule for compliance, must be submitted using an AI-001 if any of the following are checked No.*

a. Is the change identified above in compliance with the associated applicable requirement(s)? ☒ Yes ☐ No

b. Will the change identified above continue to be in compliance with the associated applicable requirement(s)? ☒ Yes ☐ No

c. If the change includes a future applicable requirement(s), will timely compliance be achieved? ☒ Yes ☐ No

13. Operator's Additional Information ID - *Create an Additional Information (AI) ID for the associated AI-001 form used to provide supplemental information.* **AI 91-15**

14. Contact Name	Telephone No.	E-mail Address
Jennifer Tegen	810-706-1319	jennifer.tegen@gm.com

15. This submittal also updates the ROP renewal application submitted on 06/27/2014 ☒ Yes ☐ N/A
(If yes, a mark-up of the affected pages of the ROP must be attached.)

NOTE: A CERTIFICATION FORM (C-001) SIGNED BY A RESPONSIBLE OFFICIAL MUST ACCOMPANY ALL SUBMITTALS

Michigan Department Of Environmental Quality - Air Quality Division

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.

Form Type **AI-001**	SRN M4199

1. Operator's Additional Information ID
AI 91-15

Additional Information

2. Is This Information Confidential? ☐ Yes ☒ No

3. Narrative

The General Motors, LLC Detroit Hamtramck Assembly Plant was issued Permit To Install No. 91-15 on July 14, 2015. The purpose of this submittal is to incorporate the PTI into the site's Renewable Operating Permit Number MI-PTI-M4199-2010 by submitting a Minor Modification per R336.1216(2). The terms and conditions of the PTI will be incorporated into Section 2 of the ROP. This submittal also updates the ROP renewal application submitted on June 27, 2014

A certification by the responsible official which states that the proposed modification meets the criteria for use of minor permit modification procedures and that, based on information and belief formed after reasonable inquiry, the statements and information in the application are true, accurate, and complete. * See Attached From C-001

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

July 14, 2015

PERMIT TO INSTALL
91-15

ISSUED TO
General Motors, LLC Detroit Hamtramck Assembly

LOCATED AT
2500 East GM Boulevard
Detroit, Michigan

IN THE COUNTY OF
Wayne

STATE REGISTRATION NUMBER
M4199

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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: **July 13, 2015**	
DATE PERMIT TO INSTALL APPROVED: **July 14, 2015**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

Section **Page**

Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO_2e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H_2S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO_x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM with aerodynamic diameter ≤10 microns
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM with aerodynamic diameter ≤ 2.5 microns
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO_2	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

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

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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 conditions 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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

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 (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUBOILER1	Natural gas-fired boiler with a maximum heat input capacity of 84 MMBtu/hr. Coal-firing capability removed upon NOTIFICATION DATE or on December 31, 2015, whichever comes first.	5/19/1981	FGPOWERHOUSE, FG63-5D-EXNGBLR
EUBOILER2	Boiler capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.	5/19/1981	FGPOWERHOUSE
EUBOILER3	Boiler capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.	5/19/1981	FGPOWERHOUSE
EUBOILER4	Boiler capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.	5/19/1981	FGPOWERHOUSE
EUASHCONVEYOR	Pneumatic ash conveying system controlled by a vent filter.	5/19/1981	FGASHSYSTEM
EUASHSILO	Ash silo controlled by the ash silo vent filter.	5/19/1981	FGASHSYSTEM
EUHOPPER	A Coal unloading system for the powerhouse controlled by a spray wetting system.	5/19/1981	NA
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 336.1290.			

The following conditions apply to:
EUBOILER1

DESCRIPTION: Natural gas-fired boiler with a maximum heat input capacity of 84 MMBtu/hr.

Coal-firing capability removed upon NOTIFICATION DATE or on December 31, 2015, whichever comes first.

Flexible Group ID: FG63-5D-EXNGBLR

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO_x	0.2 lb/MMBtu	Test Protocol*	EUBOILER1	SC V.1, SC VI.4	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d)
2. NO_x	73.58 tpy	12-month rolling time period as determined at the end of each calendar month	EUBOILER1	SC VI.3, SC VI.4	R 336.1205(1)(a) & (b)
*Test Protocol shall specify averaging time.					

II. MATERIAL LIMITS

1. The permittee shall only burn natural gas in EUBOILER1. **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1401, R 336.1702(a), 40 CFR 52.21(c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. The maximum design heat input capacity for EUBOILER1 shall not exceed 84 MMBtu per hour on a fuel heat input basis. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d))**

2. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner, a device to monitor and record the monthly natural gas usage rate, when in operation, for EUBOILER1 on a continuous basis. **(R 336.1205(1)(a) & (b))**

V. TESTING/SAMPLING

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

1. Within 180 days after the emission unit EUBOILER1 becomes effective, the permittee shall verify NO_x emission rates, as specified in SC I.1, from EUBOILER1 by testing at owner's expense, in accordance with Department requirements. 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 336.2001, 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)(a) & (b))**

2. The permittee shall keep, in a format acceptable to the AQD District Supervisor, calendar day, calendar month, and 12-month rolling natural gas usage records in million cubic feet for EUBOILER1. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (b))**

3. The permittee shall calculate and keep, in a satisfactory manner, monthly and 12-month rolling total NO_x mass emission records for EUBOILER1, as required by SC I.2. These calculations are based upon applicable emission factors, maximum design parameters, and hours of operation, or stack test data and hours of operation. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (b))**

4. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit. This information shall include, but shall not be limited to the following:
   a. Compliance tests and any testing required under the special conditions of this permit.
   b. Monitoring data.
   c. Verification of heat input capacity required to show compliance with SC IV.1.
   d. Amount of natural gas combusted in EUBOILER1 on a monthly basis.
   e. All calculations necessary to show compliance with the limits contained in this permit.

   All of the above information shall be stored in a format acceptable to the Air Quality Division and shall be consistent with the requirements of 40 CFR 60.7(f). **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1401, R 336.1702(a), R 336.1912, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. The permittee shall submit a notification stating the date that EUBOILER1 permanently ceased burning coal within 7 days of permanently ceasing burning coal or within 7 days of December 31, 2015, whichever comes first. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

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. SV043-EUBOILER1	120	250	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

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 DDDDD, as they apply to EUBOILER1. **(40 CFR Part 63 Subparts A & DDDDD)**

2. This emission unit becomes effective upon the submittal of a notification that states that EUBOILER1 has permanently ceased burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

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

The following conditions apply to:
EUHOPPER

DESCRIPTION: A Coal unloading system for the powerhouse controlled by a spray wetting system.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Spray wetting system.

I. EMISSION LIMITS

1. The permittee shall meet all Emissions Limit(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

II. MATERIAL LIMITS

1. The permittee shall meet all Material Limit(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall meet all Process/Operational Restriction(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall meet all Design/Equipment Parameter(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

V. TESTING/SAMPLING

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

1. The permittee shall meet all Testing/Sampling requirements as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall meet all Monitoring/Recordkeeping requirements as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

VII. REPORTING

1. The permittee shall meet all Reporting requirements as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall submit a notification stating the date that EUHOPPER permanently ceased operation within 7 days of permanently ceasing operation or within 7 days of December 31, 2015, whichever comes first. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

1. The permittee shall meet all Stack/Vent Restriction(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

IX. OTHER REQUIREMENTS

1. The permittee shall meet all Other Requirement(s) as required for EUHOPPER in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall permanently cease operation of EUHOPPER no later than December 31, 2015. The conditions in EUHOPPER shall no longer be applicable upon the submittal of a notification of permanently ceasing operation or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

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

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
FGPOWERHOUSE	Four boilers: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4. EUBOILER1 capable of coal and natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER2 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER3 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER4 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. Coal capabilities shall cease no later than December 31, 2015, at which time FGPOWERHOUSE shall no longer be applicable.	EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4
FGASHSYSTEM	System for the conveyance and storage of ash, from collection at the boiler bottoms of FGPOWERHOUSE through conveyance to the disposal site. Fabric filter controls exist on EUASHSILO and on EUASHCONVEYOR.	EUASHCONVEYOR, EUASHSILO
FGTEMPBOILERS	Two portable boilers capable of natural gas fire, each with a maximum heat input capacity of 92 MMBTU per hour; equipped with low NOx burners.	EUTEMPBOILER1, EUTEMPBOILER2
FG63-5D-EXNGBLR	Requirements for existing natural gas-fired boilers at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers must comply with this subpart no later than January 31, 2016. These conditions apply to boilers with a heat input capacity of greater than or equal to 10 MMBtu per hour.	EUBOILER1

The following conditions apply to:
FGPOWERHOUSE

DESCRIPTION: Four boilers: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4. EUBOILER1 capable of coal and natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER2 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER3 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER4 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.

Coal capabilities shall cease no later than December 31, 2015, at which time FGPOWERHOUSE shall no longer be applicable.

Emission Units: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4

POLLUTION CONTROL EQUIPMENT: Baghouse on the exhaust from each boiler.

I. EMISSION LIMITS

1. The permittee shall meet all Emissions Limit(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

II. MATERIAL LIMITS

1. The permittee shall meet all Material Limit(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall permanently cease burning coal in EUBOILER1 no later than December 31, 2015. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall meet all Process/Operational Restriction(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall meet all Design/Equipment Parameter(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

V. TESTING/SAMPLING

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

1. The permittee shall meet all Testing/Sampling requirements as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall meet all Monitoring/Recordkeeping requirements as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

VII. REPORTING

1. The permittee shall meet all Reporting requirements as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall submit a notification stating the date that EUBOILER1 permanently ceased burning coal within 7 days of permanently ceasing burning coal or within 7 days of December 31, 2015, whichever comes first. **(R 336.1201(3))**
   a. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

3. The permittee shall submit a notification each boiler, EUBOILER2, EUBOILER3, and EUBOILER4, stating the date that each boiler permanently ceased operation within 7 days of permanently ceasing operation. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

1. The permittee shall meet all Stack/Vent Restriction(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

IX. OTHER REQUIREMENTS

1. The permittee shall meet all Other Requirement(s) as required for FGPOWERHOUSE in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall permanently cease operation of EUBOILER2, EUBOILER3, and EUBOILER4 no later than December 31, 2015. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER2, EUBOILER3, or EUBOILER4 upon the submittal of a notification of permanently ceasing operation or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

3. The conditions in FGPOWERHOUSE shall no longer apply to EUBOILER1 upon the submittal of a notification of permanently ceasing burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

Footnotes:

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

The following conditions apply to:
FGASHSYSTEM

DESCRIPTION: System for the conveyance and storage of ash, from collection at the boiler bottoms of FGPOWERHOUSE through conveyance to the disposal site. Fabric filter controls exist on EUASHSILO and on EUASHCONVEYOR.

Emission Units: EUASHCONVEYOR, EUASHSILO

POLLUTION CONTROL EQUIPMENT: Fabric filters.

I. EMISSION LIMITS

1. The permittee shall meet all Emissions Limit(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

II. MATERIAL LIMITS

1. The permittee shall meet all Material Limit(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall meet all Process/Operational Restriction(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall meet all Design/Equipment Parameter(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

V. TESTING/SAMPLING

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

1. The permittee shall meet all Testing/Sampling requirements as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall meet all Monitoring/Recordkeeping requirements as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

VII. REPORTING

1. The permittee shall meet all Reporting requirements as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall submit a notification for each, EUASHCONVEYOR and EUASHSILO, stating the date that each permanently ceases operation within 7 days of permanently ceasing operation or within 7 days of December 31, 2015, whichever comes first. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

1. The permittee shall meet all Stack/Vent Restriction(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

IX. OTHER REQUIREMENTS

1. The permittee shall meet all Other Requirement(s) as required for FGASHSYSTEM in Section 2 of ROP No. MI-ROP-M4199-2010, or most recent ROP. **(R 336.1201(3))**

2. The permittee shall permanently cease operation of EUASHCONVEYOR and EUASHSILO no later than December 31, 2015. The conditions in FGASHSYSTEM shall no longer apply to EUASHCONVEYOR and EUASHSILO upon the submittal of a notification of permanently ceasing operation or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

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

The following conditions apply to:
FG63-5D-EXNGBLR

DESCRIPTION: Requirements for existing natural gas-fired boilers at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers must comply with this subpart no later than January 31, 2016. These conditions apply to boilers with a heat input capacity of greater than or equal to 10 MMBtu per hour.

Emission Units: EUBOILER1

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

1. The permittee shall burn only natural gas in any unit in FG63-5D-EXNGBLR. **(40 CFR 63.7499(l))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee must meet the 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, for each boiler 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 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. **(40 CFR 63.7500(e))**

4. The permittee must complete an initial tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.6, no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3 (no later than January 31, 2016). The permittee must complete the one-time energy assessment specified in Table 3 of 40 CFR Part 63, Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3 (no later than January 31, 2016). **(40 CFR 63.7510(e))**

5. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must conduct a tune-up beginning with the compliance date as defined in 40 CFR 63.7495, stated in SC IX.3, annually or once every 5 years for boilers with a continuous oxygen trim system that maintains an optimum air to fuel ratio.
   a. An annual performance tune-up must be conducted according to 40 CFR 63.7540(a)(10), stated in SC IX.6.a. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up.
   b. A 5-year performance tune-up must be conducted according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b. 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 PARAMETERS

1. FG63-5D-EXNGBLR shall apply only to boilers with a heat input capacity of greater than or equal to 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 all records required in 40 CFR 63.7555, as they apply to each boiler in FG63 5D EXNGBLR. **(40 CFR 63.7555)**

2. 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))**

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 5 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 2 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 3 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.5 and SC VII.6, and in Subpart A of 40 CFR 63. **(40 CFR 63.7495(d))**

2. The permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted a tune-up of the unit. **(40 CFR 63.7530(d))**

3. The permittee must include with the Notification of Compliance Status a signed certification that the energy assessment was completed per the requirements of 40 CFR 63.7530(e). **(40 CFR 63.7530(e))**

4. The permittee must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e), stated in SC VII.6. **(40 CFR 63.7530(f))**

5. 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))**

6. If the permittee is not required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8). **(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, including whether the fuel(s) were a secondary material determined by the permittee or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration. **(40 CFR 63.7545(e)(1))**
   b. In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance listed in paragraph (e)(8)(i) and (ii), as applicable, and signed by a responsible official. **(40 CFR 63.7545(e)(8))**

7. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. **(40 CFR 63.7550(a))**

8. Unless the USEPA 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.10, 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.6.a, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b, and not subject to emission limits or operating limits, the permittee may submit only an annual 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 compliance report must cover the period beginning on the compliance date that is specified for each boiler in 40 CFR 63.7495, stated in SC IX.3, and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days (or 1 or 5 years, as applicable, if submitting an annual or 5-year compliance report) after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. **(40 CFR 63.7550(b)(1))**
   b. The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler in 40 CFR 63.7495, stated in SC IX.3. The first annual or 5-year compliance report must be postmarked or submitted no later than January 31. **(40 CFR 63.7550(b)(2), (40 CFR 63.10(a)(5))**
   c. Each subsequent 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 and 5-year compliance reports must cover the applicable 1 or 5-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**
   d. Each subsequent 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 and 5-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), (40 CFR 63.10(a)(5))**

9. 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 (iv), (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.6.a, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b. Include the date of the most recent burner inspection if it was not done annually 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))**

10. The permittee must submit the reports according to the procedures specified in 40 CFR 63.7550, as applicable. If able, the permittee must submit all reports required by Table 9 using CEDRI. **(40 CFR 63.7550(h))**

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

1. 40 CFR Part 63, Subpart DDDDD applies to existing affected sources as described in paragraph (a)(1) 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 the collection at a major source of all existing industrial, commercial, and institutional boilers within a subcategory as defined in 40 CFR 63.7575. **(40 CFR 63.7490(a)(1))**

2. A boiler is existing if it is not new or reconstructed, as defined below. **(40 CFR 63.7490(d))**
   a. A boiler is new if the permittee commences construction of the boiler after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. **(40 CFR 63.7490(b))**
   b. A boiler is 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 an existing boiler, the permittee must comply with 40 CFR Part 63, Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR 63.6(i). **(40 CFR 63.7495(b))**

4. The permittee must be in compliance with the emission limits, work practice standards, and operating limits of 40 CFR Part 63, Subpart DDDDD. These limits apply at all times the affected unit is operating. **(40 CFR 63.7505(a))**

5. 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.6.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.6.c, for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**

6. 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 has a heat input capacity of 10 million Btu per hour or greater, the permittee must conduct an annual tune-up of the boiler to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. 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 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, an annual 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))**
         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. **(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))**
   b. If the boiler 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 million Btu 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 every 5 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. **(40 CFR 63.7540(a)(12))**
   c. 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))**

15. 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)**

Michigan Department of Environmental Quality
Air Quality Division

EFFECTIVE DATE: ~~February 17, 2010~~

ISSUED TO

General Motors Hamtramck

State Registration Number (SRN): M4199

LOCATED AT

2500 E. General Motors Blvd. Detroit, Michigan 48211

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-M4199-~~2010~~

Expiration Date: ~~February 17, 2015~~

Administratively Complete ROP Renewal Application Due Between
~~August 17, 2013~~ and ~~August 17, 2014~~

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

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-M4199-~~2010~~

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

Michigan Department of Environmental Quality

_____
Teresa Seidel, Southeast Michigan District Supervisor

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AUTHORITY AND ENFORCEABILITY

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

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

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

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

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

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STATE OF MICHIGAN
RENEWABLE OPERATING PERMIT

SECTION 1

General Motors
Hamtramck Assembly Plant

SRN:M4199

LOCATED AT

2500 E. General Motors Blvd.

Permit Number: MI-ROP-M4199-~~2010~~

Effective Date: ~~February 17, 2010~~

Expiration Date: ~~February 17, 2015~~

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A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**
- Those conditions that are hereby incorporated in a state only enforceable Source-wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R336.1214a(5))**
- Those conditions that are hereby incorporated in federally enforceable Source- wide PTI No. MI-PTI-M4199~~M4199~~-2010 pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

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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

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

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

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

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

Equipment & Design

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

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

Emission Limits

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

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

Testing/Sampling

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

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

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

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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.

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

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

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

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

Permit Shield

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

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

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

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c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

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d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**

28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
    a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
    b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
    c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
    d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
    e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**

29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**

31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**

32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(9))**

33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

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

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d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(7))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F.

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

Risk Management Plan

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

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

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

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

Emission Trading

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

Permit To Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule. [2] **(R 336.1201(1))**

44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA. [2] **(R 336.1201(8), Section 5510 of Act 451)**

45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, MDEQ. [2] **(R 336.1219)**

46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months, or has been interrupted for 18 months, the applicable terms and conditions from that PTI shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, MDEQ, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI. [2] **(R 336.1201(4))**

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

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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.

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SOURCE-WIDE CONDITIONS

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not produce more than 78.5 jobs per hour, as averaged over the hours of operation for each calendar month and determined at the end of each calendar month. A job shall be defined as a fully assembled vehicle leaving the assembly line.[2] **(R°336.1220)**

2. The permittee shall not produce more than 337,500 jobs per year, as determined at the end of each calendar year.[2] **(R°336.1220)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. NA

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V. TESTING/SAMPLING

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

1. NA

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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. Permittee shall maintain daily and monthly records of the hours of operation for the assembly line.[2] **(R°336.1220)**

2. Permittee shall maintain records of the daily and monthly number of jobs produced for the assembly line.[2] **(R°336.1220)**

3. Permittee shall calculate and maintain records of the hourly averaged jobs per hour, as determined at the end of each calendar month. **(R°336.1213(3))**

See Appendix 7

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VII. REPORTING

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

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

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

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

1. NA

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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).

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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
EUPRETREATMENT	Surface preparation for the painting applications to follow. Vehicle bodies are cleaned with detergent and rinsed. Microcrystals are applied to vehicle bodies for corrosion resistance and enhanced paint adhesion. There are not any add-on controls associated with this emission unit.	5/19/1981 1/17/1989	NA
EUELPOSYSTEM	An electrocoat dip tank followed by an electrocoat curing oven. There are not any add on controls associated with this emission unit.	5/19/1981 11/15/1982 1/17/1989	NA
EUPRIMERSURFACER	A guidecoat (primer surfacer) spray booth followed by a curing oven. The solventborne primersurfacer is applied manually or automatically with air atomized or electrostatic spray guns. The guidecoat booth is equipped with a downdraft water wash system to control particulate emissions from paint overspray. VOC emissions from the curing oven are controlled by a thermal oxidizer.	5/19/1981 11/15/1982 1/17/1989 5/19/1993	NA

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Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUTOPCOATSYSTEM	A topcoat spray booth followed by a curing oven. There is a heated flash-off area located between the basecoat portion of the booth and the clearcoat portion of the booth. The waterborne basecoat is applied manually or automatically with air atomized or electrostatic spray guns, the solventborne basecoat replacement (BCR) is applied manually or automatically with air atomized or electrostatic spray guns. The BCR is a topcoat material, but is applied in the primer surfacer booth. The solventborne clearcoat is applied manually or automatically with air atomized or electrostatic spray guns. The topcoat booth is equipped with a downdraft water wash system to control particulate emissions from paint overspray. VOC emissions from the curing ovens are controlled by a thermal oxidizer.	5/19/1981 11/15/1982 1/17/1989 7/18/1991 6/24/1993	NA
~~EUDEADNER~~	~~A spraybooth equipped with a particulate control system in which a waterborne deadener material will be applied using an atomized (or other equivalent technology) applicator.~~	~~5/19/1981 11/15/1982 1/17/1989~~	~~NA~~
EUFINALREPAIR	A combination final repair down draft booth with a particulate control system and dry filter stalls located throughout the assembly plant. The booth and stalls are equipped with automatic and manual applicators.	5/19/1981 11/15/1982 1/17/1989	NA
EUSEALERADH	Various sealers, adhesives, and fillers are applied in the body shop, the paint shop and the general assembly areas.	5/19/1981 11/15/1982 1/17/1989 12/11/1989	NA
EUBOOTHCLEAN	The application of solvents to clean spray booths. There are no add-on controls for this emission unit.	5/19/1981 11/15/1982 1/17/1989 12/11/1989	NA
EUPURGE	This operation is the purging of applicators within the paint spray booth.	5/19/1981 11/15/1982 1/17/1989 12/11/1989	NA
EUMISCSOLV	These activities consist of miscellaneous cleaning activities, bodywipe, general assembly clean-up, production equipment clean-up and maintenance equipment clean-up.	5/19/1981 11/15/1982 1/17/1989 12/11/1989	NA
~~EU-Acoustical/Structural Foam~~	~~A two-part polyurethane foam system that will be injected into the hollow areas of the vehicle.~~	~~7/28/04~~	~~FG-MACT~~

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
Gasoline fuel filling operations and all gasoline storage tanks containing fuel for vehicle fuel filling operations	All gasoline storage tanks containing fuel for vehicle fuel filling operations. Vehicles being filled with gasoline shall be equipped with on-board refueling vapor recovery (ORVR), Stage II oxidizer, or other equivalent vapor control system.	5/19/1981 11/15/1982 1/17/1989 12/11/1989	FGFUELFILL
Each Rule 285(i) and Rule 285(l)(vi) exempt equipment	Each grinding and welding operation exempt from Rule 201 pursuant to Rule 285(i) or Rule 285(l)(vi).	NA	FGWELDGRIND
Each cold cleaner	Each cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 281(h) or Rule 285(r)(iv).	NA	FGCOLDCLEANERS
Each Rule 284 exempt existing or new storage tank	Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank that is exempt from the requirements of Rule 201 pursuant to Rule 284.	NA	FGTANKS
Each Rule 287(c) exempt surface coating line	Each emission unit exempt from Rule 201 pursuant to Rule 287(c).	NA	FGRULE287(c)
Each Rule 290 emission unit	Each emission unit exempt from Rule 201 pursuant to Rule 290.	NA	FGRULE290
EU-ENGINE1	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE2	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1996	FG-EMERGENCYRICE
EU-ENGINE3	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE4	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE5	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ENGINE6	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-PHFIREPUMP	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE
EU-ADMINFIREPUMP	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).	1983	FG-EMERGENCYRICE

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Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-ENGDATACTR	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE).		FG-EMERGENCYRICE

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EUPRETREATMENT
EMISSION UNIT CONDITIONS

DESCRIPTION
Surface preparation for the painting applications to follow. Vehicle bodies are cleaned with detergent and rinsed. Microcrystals are applied to vehicle bodies for corrosion resistance and enhanced paint adhesion. There are not any add-on controls associated with this emission unit.

Flexible Grouping ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

NA

See Appendix 1.5

VI. MONITORING/RECORDKEEPING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall maintain a current listing from the manufacturer of the chemical composition of each material used in EUPRETREATMENT, including the weight percent of each compound. The data may consist of MSDSs, manufacturer's formulation data, or both. **(R°336.1213(3))**

See Appendix 1.3, 1.4, and/or 1.7

VII. REPORTING

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

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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 1.8

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. SV003 (Oleum Phosphate 35A)	NA	53[2]	**R°336.1220(1)(d)**
2. SV004 (Oleum Phosphate 35B)	NA	53[2]	**R°336.1220(1)(d)**
3. SV005 (Oleum Phosphate 35C)	NA	53[2]	**R°336.1220(1)(d)**
4. SV006 (Oleum Phosphate 35D)	NA	53[2]	**R°336.1220(1)(d)**
5. SV007 (Oleum Phosphate 35E)	NA	53[2]	**R°336.1220(1)(d)**
6. SV008 (Oleum Phosphate 35F)	NA	53[2]	**R°336.1220(1)(d)**
7. SV009 (Oleum Phosphate 35G)	NA	53[2]	**R°336.1220(1)(d)**
8. SV010 (Oleum Phosphate 35H)	NA	53[2]	**R°336.1220(1)(d)**
9. SV011 (Oleum Phosphate 35I)	NA	53[2]	**R°336.1220(1)(d)**

IX. OTHER REQUIREMENT(S)

NA

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

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EUELPOSYSTEM
EMISSION UNIT CONDITIONS

DESCRIPTION

An electrocoat dip tank followed by an electrocoat curing oven. There are not any add on controls associated with this emission unit.

Flexible Grouping 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	76.8 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUELPOSYSTEM	GC 13, SCs V.1, VI.1, VI.2, VI.3	**R°336.1220**
2. VOC	0.16 kilograms per liter of applied coating solids[2]	Calendar month volume weighted average	EUELPOSYSTEM	SCs VI.3, IX.1	**R°336.1220, 40 CFR 60.392(a)(1)(i), 40 CFR 60.393(c)**
3. VOC	1.2 pounds per gallon coating, minus water, as applied	Calendar month volume weighted average	EUELPOSYSTEM	SCs V.1, VI.1, VI.3	**R°336.1702(d)**
4. VOC	172.8 tpy[2]	As determined at the end of each calendar year	EUELPOSYSTEM	SCs V.1, VI.1, VI.3	**R°336.1220**

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II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. The VOC content for each ~~primer~~coating or material, minus water, as applied, shall be determined using EPA Reference Method 24. Alternatively, for water-borne ~~primer~~coating or material, the VOC content may be determined from formulation data, and for non-water-borne primer, the VOC content may be determined from formulation data if acceptable to the AQD District Supervisor. If the Method 24 and formulation values should differ, then Method 24 results shall be used to determine compliance. Records of the VOC content shall be maintained.[2] **(R°336.1213(3), R°336.1702(d))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. The permittee shall record the material and coating usage for EUELPOSYSTEM: monthly record.[2] (**R°336.1213(3))**

2. The permittee shall record the production hours for EUELPOSYSTEM: monthly record.[2] (**R°336.1213(3))**

3. The permittee shall calculate and maintain records of the VOC emission rate in pounds per hour, tons per calendar year, pounds per gallon of applied coating solids, as applied: monthly record, and pounds of VOC per gallon (minus water), as applied: monthly record.[2] **(R°336.1213(3), R°336.1702(d), 40 CFR 60.395(b))**

See Appendix 1.7

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 1.8

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. SV001 (Dip Tank 33A)	NA	53[2]	**R°336.1220(1)(d), R°336.1901**
2. SV002 (Dip Tank 33B)	NA	53[2]	**R°336.1220(1)(d), R°336.1901**
3. SV012 (Oven Zone 1; 34A)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
4. SV013 (Oven Zone 2; 34B)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**

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Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
5. SV014 (Oven Zone 3; 34C)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
6. SV015 (Oven Zone 4; 34D)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
7. SV016 (Oven Zone 5; 34E)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
8. SV017 (Oven Erncool 34F)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
9. SV018 (Oven Zone 6; 34G)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
10. SV019 (Oven Zone 7; 34H)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
11. SV020 (Oven Zone 8; 34I)	NA	53[2]	**40 CFR 52.21(c) and (d), R336.1220(1)(d)**
12. SV021 (Cooling 34K)	NA	53[2]	**R°336.1220(1)(d)**
13. SV022 (Cooling 34L)	NA	53[2]	**R°336.1220(1)(d)**
14. SV023 (Cooling 34M)	NA	53[2]	**R°336.1220(1)(d)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the Standards of Performance for New Stationary Sources (40 CFR Part 60) General Provisions (Subpart A) and Standards of Performance for Automobile and Light-Duty Truck Surface Coating Operations (Subpart MM).[2] **(40 CFR Part 60, Subparts A and MM)**

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).

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EUPRIMERSURFACER
EMISSION UNIT CONDITIONS

DESCRIPTION

A guidecoat (primer surfacer) spray booth followed by a curing oven. The solventborne primersurfacer is applied manually or automatically with air atomized or electrostatic spray guns. The guidecoat booth is equipped with a downdraft water wash system to control particulate emissions from paint overspray. VOC emissions from the curing oven are controlled by a thermal oxidizer.

Flexible Grouping ID: NA

POLLUTION CONTROL EQUIPMENT

Thermal incineration, downdraft water wash system.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	2.42 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUPRIMERSURFACER	GC 13, SCs III.1, VI.9, VI.11	**R°336.1220**
2. PM	5.45 tpy[2]	As determined at the end of each calendar year	EUPRIMERSURFACER	SCs III.1, VI.9, VI.12	**R°336.1220**
3. VOC	109 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUPRIMERSURFACER	GC 13, SCs III.2, IV.1, V.1, V.2, V.3, V.4, VI.1, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1220**
4. VOC	1.40 kilograms per liter of applied coating solids[2]	Calendar month volume weighted average	EUPRIMERSURFACER	SCs VI.1, VI.3, VI.4, VI.5, VI.6, IX.1	**R°336.1220, 40 CFR 60.392(b), 40 CFR 60.393(c)**

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Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
5. VOC	14.9 pounds per gallon of applied coating solids	Calendar day volume weighted average as determined by the procedure specified in R°336.1610(6)(b)	EUPRIMERSURFACER	SCs III.2, IV.1, V.1, V.2, V.3, V.4, VI.1, VI.2, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1702(d)**
6. VOC	245 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUPRIMERSURFACER	SCs III.2, IV.1, V.1, V.2, V.3, V.4, VI.1, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1220**
~~7. VOC~~	~~12.6 pph[2]~~	~~Averaged over the operating hours in a calendar month~~	~~Anti-Chip Application within EUPRIMERSURFACER~~	~~SCs III.2, IV.1, V.1, V.2, V.3, V.4, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10, VI.13~~	~~R°336.1201(3)~~
~~8. VOC~~	~~28.5 tpy[2]~~	~~As determined on a 12 month rolling total at the end of each calendar month~~	~~Anti-Chip Application within EUPRIMERSURFACER~~	~~SCs III.2, IV.1, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10, VI.14~~	~~R°336.1201(3)~~

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Permittee shall not operate a spray booth of EUPRIMERSURFACER~~, including the anti-chip application,~~ unless the spray booth's associated downdraft water wash system control equipment is installed and operating properly.[2] **(R°336.1220, R°336.1910)**

2. Permittee shall not operate EUPRIMERSURFACER~~, including the anti-chip application,~~ unless the associated oven incinerators servicing EUPRIMERSURFACER are installed and operating properly. Proper operation includes maintaining a minimum temperature of 1300°F in each oven incinerator. In lieu of a minimum temperature, an average temperature of 1300°F based upon a three average may be used.[2] **(R°336.1220, R°336.1910, 64.6(c)(1)(i),(ii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Permittee shall not operate EUPRIMERSURFACER~~, including the anti-chip application,~~ unless a minimum retention time of 0.5 seconds is maintained in each oven incinerator servicing EUPRIMERSURFACER.[2] **(R°336.1220, R°336.1910, 64.6(c)(1)(i),(ii))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

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1. The Permittee shall verify the transfer efficiency rates of EUPRIMERSURFACER by testing, at owner's expense, 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 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent test remains valid and representative. **(R°336.1213(3), R°336.1702(d))**

   b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the transfer efficiency, as required by the EPA Protocol. **(R°336.1213(3), R°336.1702(d))**

   Verification of transfer efficiency rates includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

2. The Permittee shall verify the oven exhaust control device VOC loading rates of EUPRIMERSURFACER, by testing, at owner's expense, according to the following schedule:

   a. Within 180 days of issuance of this permit if an acceptable oven exhaust control device VOC loading test has not been conducted within 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent acceptable tests remain valid and representative. **(R°336.1213(3), R°336.1702(d))**

   b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the oven exhaust control device VOC loading rates. **(R°336.1213(3), R°336.1702(d))**

   Verification of oven exhaust control device VOC loading rates oven includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

3. The Permittee shall verify the oven exhaust control device destruction efficiency of EUPRIMERSURFACER, by testing, at owner's expense, according to the following schedule:

   a. Within 180 days of issuance of this permit if an acceptable oven exhaust control device destruction efficiency test has not been conducted within 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent acceptable tests remain valid and representative. **(R°336.1213(3), R°336.1702(d))**

   b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the oven exhaust device destruction efficiency. **(R°336.1213(3), R°336.1702(d))**

   Verification of oven exhaust control device destruction efficiency includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

4. For EUPRIMERSURFACER, the Permittee shall determine the VOC content of any coating or material as applied or as received using federal Reference Method 24 and formulation data as specified in the EPA Protocol. The verification of the analytical VOC content, as received, by testing, at owner's expense, will be

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required for each non-waterborne coating or material at least once during each calendar year. Alternatively, the Permittee may elect to have the Method 24 analysis performed by the coating or material supplier on each batch of coating.[2] **((R°336.1213(3), R°336.1702(d))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. The permittee shall record the following production, usage, coating composition, and emission calculation records for the EUPRIMERSURFACER:[2] **(R°336.1213(3), R°336.1702(d), 40 CFR 60.395(b))**

   a. The daily, monthly, and yearly number of jobs produced.

   b. The production hours per calendar month.

   c. The monthly usage rate of each coating.

   d. The pounds of VOC per gallon, as applied, for each coating.

   e. The solids volume fraction of each coating.

   f. The calculated monthly VOC emission rate in pounds per hour, tons per month as determined at the end of each calendar month, tons per calendar year as determined at the end of each month, pounds per gallon of applied coating solids for each production day as determined by the EPA Protocol, and kilograms per liter of applied coating solids as determined by 40 CFR 60.393. (Please see Appendix 1.7).

2. The permittee shall maintain records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations", EPA-450/3-88-018, or as amended (The EPA Protocol):[2] **(R°336.1213(3), R°336.1702(d))**

   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, including withdrawals.
      v. Reducer 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
      i. Value(s) used in EPA 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 EPA Protocol calculations.
      ii. Value(s) from most recent test.
      iii. Annual review of operating conditions to demonstrate that the oven exhaust control device VOC loading remains valid.

   e. Destruction efficiency of each control device.

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i. Value(s) used in protocol calculations.
ii. Value(s) derived from most recent test.

3. The permittee shall equip each thermal oxidizer servicing EUPRIMERSURFACER with a temperature measurement device, installed in the firebox, which has an accuracy of the greater of ±0.75% of the temperature being measured, expressed in degrees Celsius or ±2.5°C. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. Additionally, each temperature measurement device shall be equipped with a recording device so that a permanent record is produced.[2] **(R°336.1213(3), 40 CFR 60.394, 64.6(c)(1)(i),(ii))**

4. When EUPRIMERSURFACER is in operation, the permittee shall monitor and record the temperature in the thermal oxidizers on a continuous basis and in a manner with instrumentation acceptable to the Air Quality Division. Continuous recording is defined as at least one record every 15 minutes.[2] **(R°336.1213(3) 40 CFR 60.395(c), 64.6(c)(1)(i),(ii))**

5. The permittee shall generate a monthly summary of thermal oxidizer temperature data. This summary shall include statements indicating the operational status of EUPRIMERSURFACER (in operation, not in operation), the date, time, and duration of all periods during which the thermal oxidizer did not operate properly, and whether or not production continued during those periods. The summary shall also describe malfunction abatement procedures, corrective actions taken, and preventive measures enacted to prevent future downtime. **(R°336.1213(3), R°336.1910, 40 CFR 60.395(c), 64.6(c)(1)(i),(ii))**

6. The permittee shall maintain records documenting the calibration or accuracy validation of each thermal oxidizer temperature measurement device. **(R°336.1213(3), 64.6(c)(1)(i),(ii)))**

7. The permittee shall conduct an annual inspection of each thermal oxidizer and associated equipment. Records documenting the annual inspection and all preventive maintenance activities shall be maintained. **(R°336.1213(3), R°336.1910, 64.6(c)(1)(i),(ii))**

8. For each thermal incinerator servicing EUPRIMERSURFACER, the Permittee shall maintain a demonstration that the minimum gas retention time of 0.5 seconds is obtained for each thermal incinerator. If such a demonstration cannot be shown through engineering calculations of maximum possible gas flow, based on the size of the ductwork, the size of the firebox, and the size of the fan, or some alternative method acceptable to the AQD, then the Permittee shall provide monitoring, acceptable to the AQD, for the thermal incinerators which will allow for the assurance that the 0.5 second retention time in maintained. **(R°336.1213(3), 64.6(c)(1)(i),(ii)))**

9. The permittee shall monitor the condition of the downdraft water wash particulate control system through the use of alarms on water feed pumps or by daily visual inspection. Records of the date and time of alarm events and daily visual inspections shall be maintained. Additionally, records of the date and scope of any preventive or corrective maintenance conducted shall be maintained. If the alarm system option is selected, the permittee shall, at a minimum, conduct weekly visual inspections of the water wash system and document the observations. **(R°336.1213(3), R°336.1910)**

10 The permittee shall maintain a current written description of the paint system (i.e., all process and control equipment), including the date and description of any changes or replacements made. The records shall be kept to assist the determination of the effects of such changes to VOC loading, incinerator destruction efficiency, and transfer efficiency during the compliance evaluation. **(R°336.1213(3), 64.6(c)(1)(i),(ii)))**

11. Permittee shall maintain on record a calculation of the PM emission rate from EUPRIMERSURFACER in pounds per hour, averaged on a calendar monthly basis at the end of each calendar month, and based on the hours of operation over the calendar month. Permittee shall record all values necessary to calculate these emission rates and the derivation of the necessary values. The calculation shall be based on emission factors obtained from the most recent test data obtained from EUPRIMERSURFACER, or in the event such data is not available, based on engineering calculations acceptable to the AQD. **(R°336.1213(3)(a)(ii))**.

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12. Permittee shall calculate and record of the PM emission rate from EUPRIMERSURFACER, on a tons per year basis as determined at the end of each calendar year. The calculation shall be based on emission factors obtained from the most recent test data obtained from EUPRIMERSURFACER, or in the event such data is not available, based on engineering calculations acceptable to the AQD. **(R°336.1213(3)(a)(ii))**.

~~13. Permittee shall calculate and record the VOC emission rate from the anti-chip application within in pounds per hour, averaged on a calendar monthly basis at the end of each calendar month, and based on the hours of operation over the calendar month. Permittee shall record all values necessary to calculate these emission rates and the derivation of the necessary values. These values include, but are not limited to, the calendar monthly rate of all materials used in anti-chip application and the calendar monthly hours of the anti-chip application.[2] **(R°336.1213(3))**~~

~~14. Permittee shall calculate and record the VOC emission rate from the anti-chip application within EUPRIMERSURFACER in tons per month as determined at the end of each calendar month and in tons per year as determined at the end of each calendar year. Permittee shall record all values necessary to calculate these emission rates and the derivation of the necessary values.[2] **(R°336.1213(3))**~~

15. For each control device in operation during production (coating vehicles, booth cleaning, etc.) and if the equipment is equipped with a bypass line, 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. **(64.3(a)(2))**

16. The permittee keep records of maintenance inspections which include the dates, results of inspections and the dates and reasons for repairs if made for the thermal oxidizers. The permittee shall also perform a heat exchanger visual internal inspection a minimum of once every 18 months. **(64.6(c)(1)(i),(ii), 64.7(e))**

See Appendix 1.7

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. 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))**

See Appendix 1.8

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:

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Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV24 (Primer Surfacer Mod. 1-16/Topcoat Mod. 1-10)	NA	147[2]	**R°336.1201(3)**
2. SV25 (Oven 30A)	NA	53[2]	**40 CFR 52.21(c) and (d)**
3. SV26 (Oven 30B)	NA	53[2]	**40 CFR 52.21(c) and (d)**
4. SV27 (Oven 30C)	NA	53[2]	**40 CFR 52.21(c) and (d)**
5. SV28 (Oven 30D)	NA	53[2]	**40 CFR 52.21(c) and (d)**
6. SV29 (Wet Sand Oven 32A)	NA	53[2]	**40 CFR 52.21(c) and (d)**
7. SV30 (Wet Sand Oven 32B)	NA	53[2]	**40 CFR 52.21(c) and (d)**
8. SV31 (Wet Sand Oven 32C)	NA	53[2]	**40 CFR 52.21(c) and (d)**
9. SV32 (Wet Sand Oven 32D)	NA	53[2]	**40 CFR 52.21(c) and (d)**
10. SV33 (Wet Sand Oven 32E)	NA	53[2]	**40 CFR 52.21(c) and (d)**
11. SV34 (Wet Sand Oven 32F)	NA	53[2]	**40 CFR 52.21(c) and (d)**
12. SV35 (Wet Sand Oven 32G)	NA	53[2]	**40 CFR 52.21(c) and (d)**
13. SV36 (Wet Sand Oven 32H)	NA	53[2]	**40 CFR 52.21(c) and (d)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the Standards of Performance for New Stationary Sources (40 CFR Part 60) General Provisions (Subpart A) and Standards of Performance for Automobile and Light-Duty Truck Surface Coating Operations (Subpart MM).[2] **(40 CFR Part 60, Subparts A and MM)**

2. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: **(64.6(c)(2))**

   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.2.
   b. A monitoring excursion is defined as a failure to properly monitor as required in special conditions VI.4 or VI.15
   c. An Monitoring excursion is defined as a failure to properly implement and/or maintain the O&M plan required in special condition VI.3 and VI.16.

3. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**

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).

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EUTOPCOATSYSTEM
EMISSION UNIT CONDITIONS

DESCRIPTION

A topcoat spray booth followed by a curing oven. There is a heated flash-off area located between the basecoat portion of the booth and the clearcoat portion of the booth. The waterborne basecoat is applied manually or automatically with air atomized or electrostatic spray guns, the solventborne basecoat replacement (BCR) is applied manually or automatically with air atomized or electrostatic spray guns. The BCR is a topcoat material, but is applied in the primer surfacer booth. The solventborne clearcoat is applied manually or automatically with air atomized or electrostatic spray guns. The topcoat booth is equipped with a downdraft water wash system to control particulate emissions from paint overspray. VOC emissions from the curing ovens are controlled by a thermal oxidizer.

Flexible Grouping ID: NA

POLLUTION CONTROL EQUIPMENT

Downdraft water wash system, thermal incineration, purge collection for solventborne material.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	11.3 pph	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUTOPCOATSYSTEM	GC 13, SCs III.1, VI.9, VI.11	**R°336.1220**
2. PM	26.6 tpy	As determined at the end of each calendar year	EUTOPCOATSYSTEM	SCs III.1, VI.9, VI.12	**R°336.1220**
3. VOC	367 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUTOPCOATSYSTEM	GC 13, SCs III.2, IV.1, IV.1, V.1, V.2, V.3, V.4, V.5, VI.1, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1220**
4. VOC	1.47 kilograms per liter of applied coating solids[2]	Calendar month volume weighted average	EUTOPCOATSYSTEM	SCs VI.1, VI.3, VI.4, VI.5, VI.6, IX.1	**R°336.1220, 40 CFR 60.392(c), 40 CFR 60.393(c)**

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Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
5. VOC	14.9 pounds per gallon of applied coating solids	Calendar day volume weighted average as determined by the procedure specified in R°336.1610(6)(b)	EUTOPCOATSYSTEM	SCs III.2, IV.1, IV.1, V.1, V.2, V.3, V.4, V.5, VI.1, VI.2, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1702(d)**
6. VOC	796 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUTOPCOATSYSTEM	SCs III.2, III.3, IV.1, V.1, V.2, V.3, V.4, V.5, VI.1, VI.3, VI.4, VI.5, VI.6, VI.7, VI.8, VI.10	**R°336.1220**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Permittee shall not operate a spray booth of EUTOPCOATSYSTEM unless the spray booth's associated downdraft water wash system control equipment is installed and operating properly.[2] **(R°336.1220, R°336.1910)**

2. Permittee shall not operate EUTOPCOATSYSTEM unless the associated oven incinerators servicing EUTOPCOATSYSTEM are installed and operating properly. Proper operation includes maintaining a minimum temperature of 1300°F in each oven incinerator and maintaining a VOC destruction efficiency of not less than 90% in each oven incinerator. In lieu of a minimum temperature, an average temperature of 1300°F based upon a three hour average may be used.[2] **(R°336.1220, R°336.1910, 64.6(c)(1)(i),(ii))**

~~3. Permittee shall not operate EUTOPCOATSYSTEM unless the purge capture system for solventborne materials is installed and operating properly and providing a VOC capture efficiency of 85 percent.[2] (R°336.1220, R°336.1910)~~

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Permittee shall not operate EUTOPCOATSYSTEM unless a minimum retention time of 0.5 seconds is maintained in each oven incinerator servicing EUTOPCOATSYSTEM.[2] **(R°336.1220, R°336.1910, 64.6(c)(1)(i),(ii))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. The Permittee shall verify the transfer efficiency rates of EUTOPCOATSYSTEM by testing, at owner's expense, according to the following schedule:

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a. Within 180 days of issuance of this permit if an acceptable transfer efficiency test has not been conducted within 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent test remains valid and representative. **(R°336.1213(3), R°336.1702(d))**

b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the transfer efficiency, as required by the EPA Protocol. **(R°336.1213(3), R°336.1702(d))**

Verification of transfer efficiency rates includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

2. The Permittee shall verify the oven exhaust control device VOC loading rates of EUTOPCOATSYSTEM, by testing, at owner's expense, according to the following schedule:

a. Within 180 days of issuance of this permit if an acceptable oven exhaust control device VOC loading test has not been conducted within 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent acceptable tests remain valid and representative. **(R°336.1213(3), R°336.1702(d))**

b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the oven exhaust control device VOC loading rates. **(R°336.1213(3), R°336.1702(d))**

Verification of oven exhaust control device VOC loading rates oven includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

3. The Permittee shall verify the oven exhaust control device destruction efficiency of EUTOPCOATSYSTEM, by testing, at owner's expense, according to the following schedule:

a. Within 180 days of issuance of this permit if an acceptable oven exhaust control device destruction efficiency test has not been conducted within 5 years prior to the issuance of the ROP, unless the Permittee has submitted an acceptable demonstration that the most recent acceptable tests remain valid and representative. **(R°336.1213(3), R°336.1702(d))**

b. Within 180 days of making any changes in operating conditions which necessitate the reevaluation of the oven exhaust device destruction efficiency. **(R°336.1213(3), R°336.1702(d))**

Verification of oven exhaust control device destruction efficiency includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-AQD District Supervisor, in writing, of the time and place of the test and who will be conducting it. The testing shall conform to the EPA Protocol. **(R°336.1213(3), R°336.2001(3))**

4. For EUTOPCOATSYSTEM, the Permittee shall determine the VOC content of any coating or material as applied or as received using federal Reference Method 24 and formulation data as specified in the EPA Protocol. The verification of the analytical VOC content, as received, by testing, at owner's expense, will be required for each non-waterborne coating or material at least once during each calendar year. Alternatively, the Permittee may elect to have the Method 24 analysis performed by the coating or material supplier on each batch of coating.[2] **((R°336.1213(3), R°336.1702(d))**

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~~5. Permittee shall verify the VOC capture efficiency of the purge capture system for solventborne materials, by testing, at owner's expense, within 180 days of issuance of this permit unless the Permittee has submitted an acceptable demonstration that the most recent acceptable tests remain valid and representative. Verification of VOC capture efficiency of the purge capture system includes the submittal 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 DEQ-AQD. The final plan must be approved by the DEQ-AQD prior to testing. No less than 7 days before any tests are conducted, the Permittee shall notify the DEQ-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 1.5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. The permittee shall record the following production, usage, coating composition, and emission calculation records for the EUTOPCOATSYSTEM:[2] **(R°336.1213(3), R°336.1702(d), 40 CFR 60.395(b))**

   a. The daily, monthly, and yearly number of jobs produced.

   b. The production hours per calendar month.

   c. The monthly usage rate of each coating.

   d. The pounds of VOC per gallon, as applied, for each coating.

   e. The solids volume fraction of each coating.

   f. The calculated monthly VOC emission rate in pounds per hour, tons per month as determined at the end of each calendar month, tons per calendar year as determined at the end of each month, pounds per gallon of applied coating solids for each production day as determined by the EPA Protocol, and kilograms per liter of applied coating solids as determined by 40 CFR 60.393. (Please see Appendix 1.7).

2. The permittee shall maintain records of the following data, test documentation, and annual reviews which are necessary to perform the calculations in the publication entitled "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations", EPA-450/3-88-018, or as amended (The EPA Protocol):[2] **(R°336.1213(3), R°336.1702(d))**

   ~~1.~~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, including withdrawals.
      v. Reducer solvent usage and density.

   ~~2.~~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.

   ~~3.~~c. Transfer efficiency
      ~~a.~~i. Value(s) used in EPA Protocol calculations.
      ~~b.~~ii. Value(s) from most recent test.
      ~~c.~~iii. Annual review of operating conditions to demonstrate that the transfer efficiency remains valid.

   ~~4.~~d. Oven exhaust control device VOC loading (booth/oven split).

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i. Value(s) used in EPA Protocol calculations.
ii. Value(s) from most recent test.
iii. Annual review of operating conditions to demonstrate that the oven exhaust control device VOC loading remains valid.

~~5.~~e. Destruction efficiency of each control device.
i. Value(s) used in protocol calculations.
ii. Value(s) derived from most recent test.

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3. The permittee shall equip each thermal oxidizer servicing EUTOPCOATSYSTEM with a temperature measurement device, installed in the firebox, which has an accuracy of the greater of ±0.75% of the temperature being measured, expressed in degrees Celsius or ±2.5°C. Each temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. Additionally, each temperature measurement device shall be equipped with a recording device so that a permanent record is produced.[2] **(R°336.1213(3), 40 CFR 60.394, 64.6(c)(1)(i),(ii))**

4. When EUTOPCOATSYSTEM is in operation, the permittee shall monitor and record the temperature in the thermal oxidizers on a continuous basis and in a manner with instrumentation acceptable to the Air Quality Division. Continuous recording is defined as at least one record every 15 minutes.[2] **(R°336.1213(3) 40 CFR 60.395(c), 64.6(c)(1)(i),(ii))**

5. The permittee shall generate a monthly summary of thermal oxidizer temperature data. This summary shall include statements indicating the operational status of EUTOPCOATSYSTEM (in operation, not in operation), the date, time, and duration of all periods during which the thermal oxidizer did not operate properly, and whether or not production continued during those periods. The summary shall also describe malfunction abatement procedures, corrective actions taken, and preventive measures enacted to prevent future downtime. **(R°336.1213(3), R°336.1910, 40 CFR 60.395(c), 64.6(c)(1)(i),(ii))**

6. The permittee shall maintain records documenting the calibration of each thermal oxidizer temperature measurement device. **(R°336.1213(3), 64.6(c)(1)(i),(ii))**

7. The permittee shall conduct an annual inspection of each thermal oxidizer and associated equipment. Records documenting the annual inspection and all preventive maintenance activities shall be maintained. **(R°336.1213(3), R°336.1910, 64.6(c)(1)(i),(ii))**

8. For each thermal incinerator servicing EUTOPCOATSYSTEM, the Permittee shall maintain a demonstration that the minimum gas retention time of 0.5 seconds is obtained for each thermal incinerator. If such a demonstration cannot be shown through engineering calculations of maximum possible gas flow, based on the size of the ductwork, the size of the firebox, and the size of the fan, or some alternative method acceptable to the AQD, then the Permittee shall provide monitoring, acceptable to the AQD, for the thermal incinerators which will allow for the assurance that the 0.5 second retention time in maintained. **(R°336.1213(3), 64.6(c)(1)(i),(ii))**

9. The permittee shall monitor the condition of the downdraft water wash particulate control system through the use of alarms on water feed pumps or by daily visual inspection. Records of the date and time of alarm events and daily visual inspections shall be maintained. Additionally, records of the date and scope of any preventive or corrective maintenance conducted shall be maintained. If the alarm system option is selected, the permittee shall, at a minimum, conduct weekly visual inspections of the water wash system and document the observations. **(R°336.1213(3), R°336.1910)**

10 The permittee shall maintain a current written description of the paint system (i.e., all process and control equipment), including the date and description of any changes or replacements made. The records shall be kept to assist the determination of the effects of such changes to VOC loading, incinerator destruction efficiency, and transfer efficiency during the compliance evaluation. **(R°336.1213(3), 64.6(c)(1)(i),(ii))**

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11. Permittee shall maintain on record a calculation of the PM emission rate from EUTOPCOATSYSTEM in pounds per hour, averaged on a calendar monthly basis at the end of each calendar month, and based on the hours of operation over the calendar month. Permittee shall record all values necessary to calculate these emission rates and the derivation of the necessary values. The calculation shall be based on emission factors obtained from the most recent test data obtained from EUTOPCOATSYSTEM, or in the event such data is not available, based on engineering calculations acceptable to the AQD. **(R°336.1213(3)(a)(ii))**.

12. Permittee shall calculate and record of the PM emission rate from EUTOPCOATSYSTEM, on a tons per year basis as determined at the end of each calendar year. The calculation shall be based on emission factors obtained from the most recent test data obtained from EUTOPCOATSYSTEM, or in the event such data is not available, based on engineering calculations acceptable to the AQD. **(R°336.1213(3)(a)(ii))**.

13. For each control device in operation during production (coating vehicles, booth cleaning, etc.) and if the equipment is equipped with a bypass line, 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. **(64.3(a)(2))**

14. The permittee keep records of maintenance inspections which include the dates, results of inspections and the dates and reasons for repairs if made for the thermal oxidizers. The permittee shall also perform a heat exchanger visual internal inspection a minimum of once every 18 months. **(64.6(c)(1)(i),(ii), 64.7(e))**

See Appendix 1.7

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. 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))**

See Appendix 1.8

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. SV024 (Primer Surfacer Mod. 1-16/Topcoat Mod. 1-10)	NA	147[2]	**R°336.1201(3)**

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	Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2.	SV047 (Mod. Oven #1 (19A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
3.	SV048 (Mod. Oven #1 (19B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
4.	SV049 (Mod. Oven #2 (20A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
5.	SV050 (Mod. Oven #2 (20B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
6.	SV051 (Mod. Oven #3 (21A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
7.	SV052 (Mod. Oven #3 (21B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
8.	SV053 (Mod. Oven #4 (22A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
9.	SV054 (Mod. Oven #4 (22B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
10.	SV055 (Mod. Oven #5 (23A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
11.	SV056 (Mod. Oven #5 (23B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
12.	SV057 (Mod. Oven #6 (24A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
13.	SV058 (Mod. Oven #6 (24B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
14.	SV059 (Mod. Oven #7 (25A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
15.	SV060 (Mod. Oven #7 (25B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**
16.	SV061 (Mod. Oven #8 (26A))	NA	53[2]	**40 CFR 52.21(c) and (d)**
17.	SV062 (Mod. Oven #8 (26B); Airseal)	NA	~~53~~[2]48[2]	**40 CFR 52.21(c) and (d)**

Comment [MLK1]: The change in stack height for airseal is an administrative modification due to a typographical error that occurred at some point the in ROP process. The heights now reflect the original heights in the ROP.

IX. OTHER REQUIREMENT(S)

1. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: **(64.6(c)(2))**

   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.2.
   b. A monitoring excursion is defined as a failure to properly monitor as required in special conditions VI.4 or VI.13
   c. An Monitoring excursion is defined as a failure to properly implement and/or maintain the O&M plan required in special condition VI.3 and VI.14.

2. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**

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).

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~~*EUDEADNER*~~
~~EMISSION UNIT CONDITIONS~~

~~DESCRIPTION~~

~~A spraybooth equipped with a particulate control system in which a waterborne deadener material will be applied using an air atomized (or other equivalent technology) applicator.~~

~~**Flexible Grouping ID:** NA~~

~~POLLUTION CONTROL EQUIPMENT~~

~~Dry filters or downdraft water wash particulate control system.~~

~~I. EMISSION LIMIT(S)~~

~~Pollutant~~	~~Limit~~	~~Time Period/ Operating Scenario~~	~~Equipment~~	~~Monitoring/ Testing Method~~	~~Underlying Applicable Requirements~~
~~1. VOC~~	~~19.4 pph[2]~~	~~Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD~~	~~EUDEADNER~~	~~GC 13; SCs V.1, VI.1, VI.2, VI.3, VI.4~~	~~R°336.1220~~
~~2. VOC~~	~~4.3 pounds per gallon of coating, minus water, as applied for clear coatings~~	~~Calendar day volume weighted average as determined by the procedure specified in R°336.1621~~	~~EUDEADNER~~	~~SCs V.1, VI.2, VI.3, VI.4~~	~~R°336.1702(d), R°336.2040~~
~~3. VOC~~	~~3.5 pounds per gallon of coating, minus water, as applied for air-dried coatings~~	~~Calendar day volume weighted average as determined by the procedure specified in R°336.1621~~	~~EUDEADNER~~	~~SCs V.1, VI.2, VI.3, VI.4~~	~~R°336.1702(d), R°336.2040~~
~~4. VOC~~	~~3.5 pounds per gallon of coating, minus water, as applied for extreme performance coatings~~	~~Calendar day volume weighted average as determined by the procedure specified in R°336.1621~~	~~EUDEADNER~~	~~SCs V.1, VI.2, VI.3, VI.4~~	~~R°336.1702(d), R°336.2040~~

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~~Pollutant~~	~~Limit~~	~~Time Period/ Operating Scenario~~	~~Equipment~~	~~Monitoring/ Testing Method~~	~~Underlying Applicable Requirements~~
~~5. VOC~~	~~3.0 pounds per gallon of coating, minus water, as applied for coatings not defined as clear, air-dried, extreme performance, truck final repair, glass adhesion body primer, or steel pail and drum interior~~	~~Calendar day volume weighted average as determined by the procedure specified in R°336.1621~~	~~EUDEADNER~~	~~SCs V.1, VI.2, VI.3, VI.4~~	~~**R°336.1702(d), R°336.2040**~~
~~6. VOC~~	~~44 tpy[2]~~	~~As determined on a 12 month rolling total at the end of each calendar month~~	~~EUDEADNER~~	~~SCs V.1, VI.1, VI.2, VI.3, VI.4~~	~~**R°336.1220**~~

~~II. MATERIAL LIMIT(S)~~

~~NA~~

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

~~1. Permittee shall not operate EUDEADNER unless the associated particulate collection system control equipment is installed and operating properly.[2] **(R°336.1213(3), R°336.1220, R°336.1910)**~~

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

~~NA~~

~~V. TESTING/SAMPLING~~

~~Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**~~

~~1. The VOC content of each material used in EUDEADNER shall be determined using federal Test Method 24 at representative time(s) and temperature(s) used to cure the related coating or material in practice as provided by ASTM D2369-98, 1.4 and Note 3. Alternatively, for waterborne material, the VOC content may be determined from manufacturer's formulation data and for non-waterborne material, the VOC content may be determined from formulation data upon written approval by the District Supervisor. 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 material shall be verified by testing.[2] **((R°336.1213(3), R°336.1702(d))**~~

~~**See Appendix 1.5**~~

~~VI. MONITORING/RECORDKEEPING~~

~~Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**~~

~~1. Permittee shall monitor and record the production hours for EUDEADNER: monthly record.[2] **(R°336.1213(3))**~~

~~2. Permittee shall monitor and record the quantity of coating used in EUDEADNER: monthly records.[2] **(R°336.702(d))**~~

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~~3. Permittee shall monitor and record the VOC content of each deadener in pounds per gallon, minus water and plus water, as applied for EUDEADENER.[2] **(R°336.1213(3), R°336.702(d))**~~

~~4. Permittee shall calculate and record the VOC emission rates in pounds per hour, tons per calendar year, and pounds per gallon of coating, minus water, according to the methods outlined in Appendix 1.7 or an alternate method approved by DEQ-AQD; monthly records are required for using all compliant materials, daily volume weighted average records are required if an individual coating exceeds the 4.8 lbs VOC/gallon minus water limit as applied.[2] **(R°336.702(d))**~~

~~5. Permittee shall maintain a record of inspection (weekly/) and maintenance to ensure proper operation of the particulate collection system control equipment. **(R°336.1213(3), R°336.1910)**~~

~~See Appendix 1.7~~

~~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 1.8~~

~~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. SV037 (27A)~~	~~NA~~	~~53[2]~~	~~R°336.1220~~
~~2. SV038 (27B)~~	~~NA~~	~~53[2]~~	~~R°336.1220~~

~~IX. OTHER REQUIREMENT(S)~~

~~NA~~

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

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EUFINALREPAIR
EMISSION UNIT CONDITIONS

DESCRIPTION
A combination final repair down draft booth with a particulate control system and dry filter stalls located throughout the assembly plant. The booth and stalls are equipped with automatic and manual applicators.

Flexible Grouping ID: NA

POLLUTION CONTROL EQUIPMENT
Down draft waterwash, dry filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	3.1 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUFINALREPAIR	GC 13; SCs V.1, VI.1, VI.2, VI.3, VI.4	**R°336.1220**
2. VOC	4.8 pounds per gallon coating, minus water, as applied[2]	Calendar day volume weighted average	EUFINALREPAIR	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d)**
3. VOC	6.8 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUFINALREPAIR	SCs V.1, VI.1, VI.2, VI.3, VI.4	**R°336.1220**

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II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Permittee shall not operate a spray booth of EUFINALREPAIR unless the associated particulate collection system control equipment, either a down draft waterwash system or a dry filter system as applicable to the individual spray booth, is installed and operating properly.[2] **(R°336.1213(3), R°336.1220, R°336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

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1. For EUFINALREPAIR, the VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Method 24. Alternatively, for waterborne coatings and materials, the VOC content, water content and density may be determined from manufacturer's formulation data. Alternatively, for non-waterborne coatings and materials, the VOC content, water content, and density may be determined from manufacturer's formulation data upon written approval by the AQD District Supervisor. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content, and density of any coating or material shall be verified by testing using federal Reference Method 24.[2] **(R°336.1213(3), R°336.1702(d))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the production hours for EUFINALREPAIR: monthly record.[2] **(R°336.1213(3))**

2. Permittee shall monitor and record the quantity of coating and reducer (solvent) used in EUFINALREPAIR: monthly records.[2] **(R°336.702(d))**

3. Permittee shall monitor and record the VOC content (pounds per gallon) and water content for all coatings used in EUFINALREPAIR, as well as the density of reducer: monthly records are required for using all compliant materials, daily volume weighted average records are required if an individual coating exceeds the 4.8 lbs VOC/gallon minus water limit as applied.[2] **(R°336.702(d))**

4 Permittee shall calculate and record the VOC emission rates from EUFINALREPAIR in pounds per hour, tons per calendar year, and pounds per gallon of coating, minus water, as applied according to the methods outlined in Appendix 1.7 or an alternate method approved by DEQ-AQD: monthly records.[2] **(R°336.702(d))**

5. Permittee shall monitor the particulate collection system control equipment for EUFINALREPAIR as follows: **(R°336.1213(3), R°336.1910)**

   a. For spray booths with downdraft water wash systems: The permittee shall monitor the condition of the downdraft water wash particulate control system through the use of alarms on water feed pumps or by daily visual inspection. Records of the date and time of alarm events and daily visual inspections shall be maintained. Additionally, records of the date and scope of any preventive or corrective maintenance conducted shall be maintained. If the alarm system option is selected, the permittee shall, at a minimum, conduct weekly visual inspections of the water wash system and document the observations.

   b. For spray booths with dry filter systems: Permittee shall maintain a record of inspection (monthly) and maintenance (replacement of filters) to ensure proper operation of the dry filters.

See Appendix 1.7

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))**

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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 1.8

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

EUSEALERADH
EMISSION UNIT CONDITIONS

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

Flexible Grouping 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	60.8 pph[2]	Averaged over the operating hours in a calendar month, with the exception of testing pursuant to General Condition (GC) 13, when it shall be determined by the testing protocol agreed upon by AQD	EUSEALERADH	GC 13; SCs V.1, VI.1, VI.2, VI.3, VI.4	**R°336.1220**
2. VOC	4.9 pounds per gallon coating, minus water, as applied for glass adhesion body primer	Calendar day volume weighted average as determined by the procedure specified in R°336.1621	EUSEALERADH	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d), R°336.2040**
3. VOC	4.3 pounds per gallon of coating, minus water, as applied for clear coatings	Calendar day volume weighted average as determined by the procedure specified in R°336.1621	EUSEALERADH	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d), R°336.2040**
4. VOC	3.5 pounds per gallon of coating, minus water, as applied for air-dried coatings	Calendar day volume weighted average as determined by the procedure specified in R°336.1621	EUSEALERADH	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d), R°336.2040**
5. VOC	3.5 pounds per gallon of coating, minus water, as applied for extreme performance coatings	Calendar day volume weighted average as determined by the procedure specified in R°336.1621	EUSEALERADH	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d), R°336.2040**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
6. VOC	3.0 pounds per gallon of coating, minus water, as applied for coatings not defined as clear, air-dried, extreme performance, truck final repair, glass adhesion body primer, or steel pail and drum interior	Calendar day volume weighted average as determined by the procedure specified in R°336.1621	EUSEALERADH	SCs V.1, VI.2, VI.3, VI.4	**R°336.1702(d), R°336.2040**
7. VOC	137 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUSEALERADH	SCs V.1, VI.1, VI.2, VI.3, VI.4	**R°336.1220**

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 5 years. **(R°336.1213(3)(b)(ii))**

1. For EUSEALERADH, 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.[2] **((R°336.1213(3), R°336.1702(d))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the production hours for EUSEALERADH: monthly record.[2] **(R°336.1213(3))**

2. Permittee shall monitor and record the quantity of coating and material used in EUSEALERADH: monthly records.[2] **(R°336.702(d))**

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3. Permittee shall monitor and record the VOC content (pounds per gallon) and water content for all coatings used in EUSEALERADH: monthly records.[2] **(R°336.702(d))**

4 Permittee shall calculate and record the VOC emission rates from EUSEALERADH in pounds per hour, tons per calendar year, and pounds per gallon of coating, minus water, as applied according to the methods outlined in Appendix 1.7 or an alternate method approved by DEQ-AQD: monthly records.[2] **(R°336.702(d))**

See Appendix 1.7

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 1.8

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

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EUBOOTHCLEAN
EMISSION UNIT CONDITIONS

DESCRIPTION
The application of solvents to clean spray booths.

Flexible Grouping 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	350 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUBOOTHCLEAN	SCs V.1, VI.1, VI.2, VI.3	**R°336.1220**

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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 5 years. **(R°336.1213(3)(b)(ii))**

1. For EUBOOTHCLEAN, the Permittee shall determine the VOC content, as applied and as received, for each material using federal Reference Method 24. Alternatively the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content, water content, and density of any coating or material shall be verified by testing using federal Reference Method 24.[2] **((R°336.1213(3))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the quantity of coating and material used in EUBOOTHCLEAN: monthly records.[2] **(R°336.1201(3))**

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2. Permittee shall monitor and record the VOC content (pounds per gallon) of coating and materials used in EUBOOTHCLEAN: monthly records.[2] **(R°336.1201(3))**

3. Permittee shall calculate and record the VOC emission rate from EUBOOTHCLEAN in tons per calendar year: monthly records.[2] **(R°336.201(3))**

See Appendix 1.7

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 1.8

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

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EUPURGE
EMISSION UNIT CONDITIONS

DESCRIPTION
This operation is the purging of applicators within the paint spray booth.

Flexible Grouping 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	650 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUPURGE	SCs V.1, VI.1, VI.2, VI.3	**R°336.1220**

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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 5 years. **(R°336.1213(3)(b)(ii))**

1. For EUPURGE, the Permittee shall determine the VOC content, as applied and as received, for each material using federal Reference Method 24. Alternatively the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content shall be verified by testing using federal Reference Method 24.[2] **((R°336.1213(3))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the quantity of coating and material used in EUPURGE: monthly records.[2] **(R°336.1201(3))**

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2. Permittee shall monitor and record the VOC content (pounds per gallon) of materials used in EUPURGE: monthly records.[2] **(R°336.1201(3))**

3. Permittee shall calculate and record the VOC emission rate from EUPURGE in tons per calendar year: monthly records.[2] **(R°336.201(3))**

See Appendix 1.7

VII. REPORTING

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

2. Semiannual reporting of monitoring and deviations pursuant to Special Condition 23 of Part A. Report shall be received by 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 Special Conditions 19 and 20 of Part A. Report shall be received by appropriate AQD district office by March 15 for the previous calendar year. **(R°336.1213(4)(c))**

See Appendix 1.8

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

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EUMISCSOLV
EMISSION UNIT CONDITIONS

DESCRIPTION
These activities consist of miscellaneous cleaning activities, bodywipe, general assembly clean-up, production equipment clean-up and maintenance equipment clean-up.

Flexible Grouping 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	307 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	EUMISCSOLV	SCs V.1, VI.1, VI.2, VI.3	**R°336.1220**

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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 5 years. **(R°336.1213(3)(b)(ii))**

1. For EUMISCSOLV, the Permittee shall determine the VOC content, as applied and as received, for each material using federal Reference Method 24. Alternatively the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. Upon request of the District Supervisor, the VOC content shall be verified by testing using federal Reference Method 24.[2] **((R°336.1213(3))**

See Appendix 1.5

VI. MONITORING/RECORDKEEPING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the quantity of coating and material used in EUMISCSOLV: monthly records.[2] **(R°336.1201(3))**

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2. Permittee shall monitor and record the VOC content (pounds per gallon) of materials used in EUMISCSOLV: monthly records.[2] **(R°336.1201(3))**

3. Permittee shall calculate and record the VOC emission rate from EUMISCSOLV in tons per calendar year: monthly records.[2] **(R°336.201(3))**

See Appendix 1.7

VII. REPORTING

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

2. Semiannual reporting of monitoring and deviations pursuant to Special Condition 23 of Part A. Report shall be received by 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 Special Conditions 19 and 20 of Part A. Report shall be received by appropriate AQD district office by March 15 for the previous calendar year. **(R°336.1213(4)(c))**

See Appendix 1.8

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

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EU-Acoustical/Structural Foam
EMISSION UNIT CONDITIONS

DESCRIPTION
A two-part polyurethane foam system that will be injected into the hollow areas of the vehicle.

Flexible Group ID:
FG-AUTOMACT

POLLUTION CONTROL EQUIPMENT
NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	230.0 Pounds*[2]	Per Calendar Day*	EU-Acoustical/ Structural Foam	SC VI.2	R336.1205, R336.1224, R336.1225
2. VOC	33.6 Tons[2]	Per 12 Month Rolling Time Period	EU-Acoustical/ Structural Foam	SC VI.2	R336.1224, R336.1225, R336.1702(a)
* Represents a monthly prorated calculated value					

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste foam 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. **(R336.1224, R336.1225, R336.1702(a))**[2]

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. NA

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

1. The VOC content of any material shall be determined using federal Reference Test Method 24 at representative time(s) and temperature(s) used to cure the related material in practice as provided by

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~~ASTM D2369-04, 1.7 and Note 3. Alternatively, the VOC 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 material shall be verified by testing.~~ **~~(R336.1702(a), R336.2001, R336.2003 and R336.2004)~~**[2]

~~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 applicant shall maintain a current listing from the manufacturer of the chemical composition of each foam material including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. The data shall be kept on file for a period of at least five years and made available to the Department upon request.~~ **~~(R336.1224, R336.1225, R336.1702(a), 40 CFR 52.21)~~**[2]

~~2. The applicant shall keep monthly records, acceptable to the District Supervisor, Air Quality Division, of the following information for EU-Acoustical/Structural-Foam:~~

~~a)A description of each material used and its VOC content in pounds per gallon (minus water and with water, where applicable).~~
~~b)The monthly usage rate of each material.~~
~~c)Records of the number of days of operation per calendar month.~~
~~d)The amount of each material reclaimed where applicable.~~
~~e)VOC emissions calculations determining the total VOC mass emissions in pounds per day (based upon a monthly proration) and tons per year based upon a 12-month rolling time period.~~

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~~All such records are for the purpose of compliance demonstration and shall be kept on file for a period of at least five years and made available to the Department upon request.~~ **~~(R336.1205, R336.1224, R336.1225 and R336.1702(a))~~**[2]

~~VII. REPORTING~~

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

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

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

~~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:~~

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~~1. EU Acoustical/Structural Foam may be vented to the outside atmosphere via general ventilation or discharged unobstructed vertically upwards to the ambient via a stack with the following parameters. **(R336.1225)**[1]~~

~~Stack & Vent ID~~	~~Maximum Exhaust Dimensions (inches)~~	~~Minimum Height Above Ground (feet)~~	~~Underlying Applicable Requirements~~
~~1. SV~~	~~120.0[1]~~	~~35.5[1]~~	~~R336.1225, R336.1901, 40 CFR 52.21(c) & (d)~~

~~IX. OTHER REQUIREMENT(S)~~

~~1. NA~~

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

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D-1. FLEXIBLE GROUP CONDITIONS

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

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

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGAUTOMACT	Each new, reconstructed, or existing affected source as defined in Title 40 of the Code of Federal Regulations (CFR), Part 63.3082, that is located at a facility which applies topcoat to new automobile or new light duty truck bodies or body parts for new automobiles or new light duty trucks; AND/OR in which you choose to include, pursuant to 40 CFR 63.3082(c), any coating operations which apply coatings to new other motor vehicle bodies or body parts for new other motor vehicles; parts intended for use in new automobiles, new light duty trucks or new other motor vehicles; or aftermarket repair or replacement parts for automobiles, light duty trucks or other motor vehicles; and that is a major source, is located at a major source, or is part of a major source of emissions of hazardous air pollutants (HAPs) except as provided in 63.3081(c). This includes equipment covered by other permits, grandfathered equipment, and exempt equipment.	EUELPOSYSTEM, EUFINALREPAIR, EUPRIMERSURFACER, EUTOPCOATSYSTEM, EUGLASSINSTL, EUSLRSADHS
FGFUELFILL	All gasoline storage tanks containing fuel for vehicle fuel filling operations. Vehicles being filled with gasoline shall be equipped with on-board refueling vapor recovery (ORVR), Stage II oxidizer, or other equivalent vapor control system.	Gasoline fuel filling operations and all gasoline storage tanks containing fuel for vehicle fuel filling operations
FGCOLDCLEANERS	Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to 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.	Each grandfathered cold cleaner or exempt cold cleaner
FGTANKS	Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank that is exempt from the requirements of Rule 201 pursuant to Rule 284.	Each Rule 284 exempt existing or new storage tank

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-EMERGENCYRICE	Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE). Title 40 of the Code of Federal Regulations (CFR), Part 63, Subpart ZZZZ (40 CFR 63.6580-6675). The engines are regulated as existing compression ignition (CI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGINE1, EU-ENGINE2, EU-ENGINE3, EU-ENGINE4, EU-ENGINE6, EU-PHFIREPUMP, EU-ADMINFIREPUMP), greater than 500 brake horse power (HP) (EU-ENGINE5), and existing spark ignition (SI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-DATACENTER) located at a Major Source of HAP emissions	EU-ENGINE1 EU-ENGINE2 EU-ENGINE3 EU-ENGINE4 EU-ENGINE5 EU-ENGINE6 EU-PHFIREPUMP EU-ADMINFIREPUMP EU-ENGDATACTR
FGRULE287(c)	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and Rule 287(c).	Each Rule 287(c) exempt emission unit
FGRULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278 and 290.	Each Rule 290 exempt emission unit

FG-MACT
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.

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

~~a.~~ **FG-MACT** 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.

~~b.~~ **FG-MACT WITH ECOAT** also includes Electrocoat operations in addition to all of the operations of FG-MACT.

~~c.~~ **EU-ADHESIVES/SEALERS** 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 Special Condition numbers I.1 or I.2. The permittee may choose to comply with Special Condition number I.2 only if Electrocoat system (EU-ECOAT) meets either of the following requirements. **(40 CFR 63.3092)**

   a. Each individual material added to the Electrocoat system contains no more than 1.0 percent by weight of any organic HAP and no more than 0.10 percent by weight of any OHSA-defined carcinogenic organic HAP, or

   b. The emissions from all Electrocoat bake ovens are captured and ducted to a CONTROL DEVICE having a minimum destruction or removal efficiency of at least 95 percent (by weight).

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II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

   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))**

   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)**

2. 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)**

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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).
Catalytic Oxidizer	The average temperature measured just before the catalyst bed in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(b); and either: Ensure that the average temperature difference across the catalyst bed in any 3-hour period does not fall below the temperature difference limit established according to 40 CFR 63.3167(b)(2); or, Develop and implement an inspection and maintenance plan according to 40 CFR 63.3167(b)(4).
Regenerative Carbon Adsorber	The total regeneration desorbing gas (*e.g.,* steam or nitrogen) mass flow for each carbon bed regeneration cycle must not fall below the total regeneration desorbing gas mass flow limit established according to 40 CFR 63.3167(c). The temperature of the carbon bed after completing each regeneration and any cooling cycle must not exceed the carbon bed temperature limit established according to 40 CFR 63.3167(c).
Condenser	The average condenser outlet (product side) gas temperature in any 3-hour period must not exceed the temperature limit established according to 40 CFR 63.3167(d).
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).
Emission Capture System that is a Permanent Total Enclosure (PTE), Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	The direction of the air flow at all times must be into the enclosure; and either: The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or, The pressure drop across the enclosure must be at least 0.007 inch water, as established in Method 204 of Appendix M to 40 CFR 51.
Emission Capture System that is not a PTE, Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to 40 CFR 63.3167(f).

3. 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))**

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

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5. 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), 40 CFR 63.3130, 40 CFR 63.3131)**

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

2. The permittee may rely upon the results of capture, destruction or transfer efficiency tests that have been previously conducted upon written approval from the AQD District Supervisor. Any such previous tests must meet the criteria identified in 40 CFR 63.3160(c)(1) through (3). **(40 CFR 63.3160)**

3. The permittee shall determine the mass fraction of each organic HAP for each material used according to the procedures established under 40 CFR 63.3151(a)(1) through (5). The permittee may use USEPA Method ALT-017 as an alternative for any material used, after demonstrating that its use as an alternative test methodology for that material, has been approved by the USEPA pursuant to the requirements of 40 CFR 63.3151(a)(3) and 40 CFR 63.7. **(40 CFR 63.7, 40 CFR 63.3151)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

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

2. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, or 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:

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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-MACT or FG-MACT WITH ECOAT, the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids. **(40 CFR 63.3130(c))**

d. For each material used in EU-SEALERADH, ~~EU-Acoustical/Structural Foam and EU-DEADNER,~~ 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-MACT or FG-MACT WITH ECOAT in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat system. 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, for EU-SEALERADH~~, and EU-Acoustical/Structural Foam and EU-DEADNER~~ combined. **(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(o))**

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)**

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Add-On Control Device	Operating Limit	Continuous Compliance Demonstration Method
Thermal Oxidizer	The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3167(a).	a. Collect the combustion temperature data according to 40 CFR 63.3168(c); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average combustion temperature at or above temperature limit.
Catalytic Oxidizer	The average temperature measured just before the catalyst bed in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(b); and either:	a. Collect the temperature data according to 40 CFR 63.3168(c); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average temperature before the catalyst bed at or above the temperature limit.
	Ensure that the average temperature difference across the catalyst bed in any 3-hour period does not fall below the temperature difference limit established according to 40 CFR 63.3167(b)(2); or,	a. Collect the temperature data according to 40 CFR 63.3168(c); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average temperature difference at or above the temperature difference limit; or
	Develop and implement an inspection and maintenance plan according to 40 CFR 63.3167(b)(4).	a. Maintaining an up-to-date inspection maintenance plan, records of annual catalyst activity checks, records of monthly inspections of the oxidizer system, and records of the annual internal inspections of the catalyst bed. If a problem is discovered during a monthly or annual inspection required by 40 CFR 63.3167(b)(4), take corrective action as soon as practicable consistent with the manufacturer's recommendations.
Regenerative Carbon Adsorber	The total regeneration desorbing gas (*e.g.*, steam or nitrogen) mass flow for each carbon bed regeneration cycle must not fall below the total regeneration desorbing gas mass flow limit established according to 40 CFR 63.3167(c).	a. Measure the total regeneration desorbing gas (*e.g.*, steam or nitrogen) mass flow for each regeneration cycle according to 40 CFR 63.3168(d); and b. Maintain the total regeneration desorbing gas mass flow at or above the mass flow limit.
	The temperature of the carbon bed after completing each regeneration and any cooling cycle must not exceed the carbon bed temperature limit established according to 40 CFR 63.3167(c).	a. Measure the temperature of the carbon bed after completing each regeneration and any cooling cycle according to 40 CFR 63.3168(d); and b. Operate the carbon beds such that each carbon bed is not returned to service until completing each regeneration and any cooling

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Add-On Control Device	Operating Limit	Continuous Compliance Demonstration Method
		cycle until the recorded temperature of the carbon bed is at or below the temperature limit.
Condenser	The average condenser outlet (product side) gas temperature in any 3-hour period must not exceed the temperature limit established according to 40 CFR 63.3167(d).	a. Collect the condenser outlet (product side) gas temperature according to 40 CFR 63.3168(e); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average gas temperature at the outlet at or below the temperature limit.
Concentrators, Including Zeolite Wheels and Rotary Carbon Adsorbers	The average desorption gas inlet temperature in any 3-hour period must not fall below the limit established according to 40 CFR 63.3167(e).	a. Collect the temperature data according to 40 CFR 63.3168(f); b. Reduce the data to 3-hour block averages; and c. Maintain the 3-hour average temperature at or above the temperature limit.
Emission Capture System that is a Permanent Total Enclosure (PTE), Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	The direction of the air flow at all times must be into the enclosure; and either: The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or, The pressure drop across the enclosure must be at least 0.007 inch water, as established in Method 204 of Appendix M to 40 CFR 51.	a. Collect the direction of air flow, and either the facial velocity of air through all natural draft openings according to 40 CFR 63.3168(g)(1) or the pressure drop across the enclosure according to 40 CFR 63.3168(g)(2); and b. Maintain the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times.
Emission Capture System that is not a PTE, Except for Downdraft Spray Booths, Flash-Off Areas, or Bake Ovens Associated with Downdraft Spray Booths	The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to 40 CFR 63.3167(f).	a. Collecting the gas volumetric flow rate or duct static pressure for each capture device according to 40 CFR 63.3168(g); b. Reducing the data to 3-hour block averages; and c. Maintaining the 3-hour average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limit.

7. Permittee shall monitor or secure the valve or closure mechanism controlling each bypass line for each capture system upon which compliance with any of the emission limits in Special Condition numbers I.1 through I.4

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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))**

VII. REPORTING

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

2. Semi-annual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(40 CFR 63.3120(a)(1), R 336.1213(3)(c)(i))**

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

4. The permittee shall submit all semiannual compliance reports as required by 40 CFR 63.3120(a). The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever comes first. These reports shall be due March 15 for the reporting period July 1 to December 31 and September 15 for the reporting period January 1 to June 30. **(40 CFR 63.3120(a))**

5. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110. **(40 CFR, 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
1. NA	NA	NA	NA

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IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR, Part 63, Subpart A and Subpart IIII for Surface Coating of Automobiles and Light Duty Trucks by the initial compliance date as they apply to FG-MACT. The permittee may choose an alternative compliance method not listed in FG-MACT 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).

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FGFUELFILL
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
All gasoline storage tanks containing fuel for vehicle fuel filling operations. Vehicles being filled with gasoline shall be equipped with on-board refueling vapor recovery (ORVR), Stage II oxidizer, or other equivalent vapor control system.

Emission Units: All storage tanks containing gasoline for vehicle fuel filling operations, gasoline fuel filling operations

POLLUTION CONTROL EQUIPMENT
Fixed roof on each storage tank, submerged fill pipe, vapor balance control.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	12 tpy[2]	As determined on a 12 month rolling total at the end of each calendar month	FGFUELFILL	SCs V.1, VI.1, VI.2, VI.3	R°336.1220

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II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any existing stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity and which has a throughput of 250,000 or more gallons (946.4 cubic meters or 946,353 liters) per year, unless such stationary vessel is equipped with a permanent submerged fill pipe. **(R 336.1606(1))**

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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 permanent submerged fill pipe. **(R 336.1703(1))**

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V. TESTING/SAMPLING
Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. NA

See Appendix 1.5

VI. MONITORING/RECORDKEEPING

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Records shall be maintained on file for a period of 5 years. **(R°336.1213(3)(b)(ii))**

1. Permittee shall monitor and record the quantity of gasoline used in FGFUELFILL: monthly records.[2] **(R°336.1201(3))**

2. ~~Permittee shall monitor and record the VOC content (pounds per gallon) of gasoline used in FGFUELFILL: monthly records.[2] **(R°336.1201(3))**~~

3. Permittee shall calculate and record the VOC emission rate from FGFUELFILL in tons per calendar year: monthly records. The emissions from the gasoline storage tanks will be determined using the latest EPA TANKS emission calculation program.[2] **(R°336.201(3))**

4. The permittee shall keep a record of the following for each storage vessel: **(R 336.1606, R 336.1703, 40 CFR Part 60, Subparts K, Ka or Kb)**

   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.

5. For each storage vessel subject to NSPS (40 CFR, Part 60, Subpart Kb) with a design capacity greater than 10,560 gallons (40 m^3) but less than 19,800 gallons (75 m^3), which are used to store volatile organic liquids, the permittee shall also record the dimensions of each vessel and an analysis showing the capacity of the storage vessel. **(40 CFR 60.116b(b))**

6. The permittee shall not construct, reconstruct, or modify any storage vessel used to store volatile organic liquids (VOL), to a capacity greater than 19,800 gallons (75 cubic meters) without notification to the Southeast Michigan District Supervisor, Air Quality Division. Such notification shall include an updated list of all NSPS subject VOL storage tanks with the capacity and date of installation/modification of each storage tank. **(R 336.1213(3))**

See Appendix 1.7

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 1.8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

~~2.~~1. Any existing gasoline tank (placed into operation before 07/01/79) shall comply with the requirements of Rule 606. **(R 336.1606)**

~~1.~~2. Any new gasoline tank (placed into operation on or after 07/01/79) shall comply with the requirements of Rule 703. **(R 336.1703)**

3. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards or NSPS (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, and 60.110b. Construction, reconstruction, or modification dates are as follows: Subpart K: after June 11, 1973 and prior to May 19,1978; Subpart Ka: after May 18,1978 and prior to July 23, 1984; Subpart Kb: after July 23, 1984. **(40 CFR Part 60, Subparts A, K, Ka, Kb)**

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).

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FGCOLDCLEANERS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to 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: Each cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 281(h) or Rule 285(r)(iv)

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use cleaning solvents containing more than 5 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 10 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))**

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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 5 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%, 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))**

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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 may construct, reconstruct, modify, install or commence operation of any new or existing emission units under FGCOLDCLEANERS without modifying the ROP providing that it is not defined as a minor or significant modification to the ROP, as defined by R 336.1216(2) and R 336.1216(3), respectively, and the activity is not excluded from exemption by any provision of R 336.1278 and the Permittee meets the requirements of R 336.1278a for the activity. **(R 336.1278, R 336.1278a)**

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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 that is exempt from the requirements of R 336.1201 pursuant to R 336.1284.

Emission Units: Each existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank that is exempt from the requirements of Rule 201 pursuant to Rule 284

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 existing stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity and which has a throughput of 250,000 or more gallons (946.4 cubic meters or 946,353 liters) per year, unless such stationary vessel is equipped with a permanent submerged fill pipe **(R 336.1606(1))**

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 permanent submerged fill pipe **(R 336.1703(1))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. Each storage vessel shall meet one of the following parameters:

   a. Storage of butane, propane, or liquefied petroleum gas in a vessel with a capacity of less than 40,000 gallons (151.4 cubic meters or 151,417 liters). **(R 336.1284(b))**

   b. The vessel and surge capacity contains lubricating, hydraulic, and thermal oils and indirect heat transfer fluids. **(R 336.1284(c))**

   c. Storage of no. 1 to no. 6 fuel oil as specified in ASTM-D-396-95, gas turbine fuel oils nos. 2-GT to 4-GT as specified in ASTM-D2880-96 or diesel fuel oils nos. 2-D and 4-D as specified in ASTM-D-975-96. **(R 336.1284(d))**

   d. Storage of sweet crude or sweet condensate is conducted in a vessel with a capacity of less than 40,000 gallons (151.4 cubic meters or 151,417 liters). **(R 336.1284(e))**

   e. Gasoline storage and handling equipment handling less than 20,000 gallons (75.7 cubic meters or 75,708 liters) per day. **(R 336.1284(g))**

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f. Storage or transfer operations of volatile organic compounds or noncarcinogenic liquids is conducted in a vessel that has a capacity of not more than 40,000 gallons (151.4 cubic meters or 151,417 liters) where the contents have a true vapor pressure of not more than 1.5 psia (103.4 millibar) at the actual storage conditions. **(R 336.1284(i))**

V. TESTING/SAMPLING

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R 336.1213(3)(b)(ii))**

~~3.~~1. The permittee shall keep a record of the following for each storage vessel: **(R 336.1606, R 336.1703, 40 CFR Part 60, Subparts K, Ka or Kb)**

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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. Annual material throughput and VOC emissions, as determined at the end of each calendar year, to verify compliance with Rule 278 requirements.

2. For each storage vessel subject to NSPS (40 CFR, Part 60, Subpart Kb) with a design capacity greater than 10,560 gallons (40 m^3) but less than 19,800 gallons (75 m^3), which are used to store volatile organic liquids, the permittee shall also record the dimensions of each vessel and an analysis showing the capacity of the storage vessel. **(40 CFR 60.116b(b))**

3. The permittee shall not construct, reconstruct, or modify any storage vessel used to store volatile organic liquids (VOL), to a capacity greater than 19,800 gallons (75 cubic meters) without notification to the Southeast Michigan District Supervisor, Air Quality Division. Such notification shall include an updated list of all NSPS subject VOL storage tanks with the capacity and date of installation/modification of each storage tank. **(R 336.1213(3))**

See Appendix 1.7

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))**

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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 1.8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Any existing gasoline tank (placed into operation before 07/01/79) shall comply with the requirements of Rule 606. **(R 336.1606)**

2. Any new gasoline tank (placed into operation on or after 07/01/79) shall comply with the requirements of Rule 703 **(R 336.1703).**

3. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards or NSPS (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, and 60.110b. Construction, reconstruction, or modification dates are as follows: Subpart K: after June 11, 1973 and prior to May 19,1978; Subpart Ka: after May 18,1978 and prior to July 23, 1984; Subpart Kb: after July 23, 1984.
(40 CFR Part 60, Subparts A, K, Ka, Kb)

4. The permittee may construct, reconstruct, modify, install or commence operation of any new or existing emission units under FGTANKS without modifying the ROP providing that it is not defined as a minor or significant modification to the ROP, as defined by R 336.1216(2) and R 336.1216(3), respectively, and the activity is not excluded from exemption by any provision of R 336.1278 and the Permittee meets the requirements of R 336.1278a for the activity. **(R 336.1278, R 336.1278a)**

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FG-EMERGENCYRICE
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emergency generators subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE). Title 40 of the Code of Federal Regulations (CFR), Part 63, Subpart ZZZZ (40 CFR 63.6580-6675). The engines are regulated as existing compression ignition (CI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGINE1, EU-ENGINE2, EU-ENGINE3, EU-ENGINE4, EU-ENGINE6, EU-PHFIREPUMP, EU-ADMINFIREPUMP), greater than 500 brake horse power (HP) (EU-ENGINE5), and existing spark ignition (SI) emergency RICE with a maximum site rate of less than 500 brake horse power (HP) (EU-ENGDATACTR) located at a Major Source of HAP emissions.

Emission Units: EU-ENGINE1, EU-ENGINE2, EU-ENGINE3, EU-ENGINE4, EU-ENGINE5, EU-ENGINE6, EU-PHFIREPUMP, EU-ADMINFIREPUMP, EU-ENGDATACTR

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

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

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall limit operation of each stationary emergency RICE with a site rating of less than or equal to 500 brake HP or greater than 500 brake HP as follows:

   a. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 63.6640(f))**

   b. Emergency stationary RICE may be operated for the purposes of maintenance checks and readiness testing up to 100 hours per year. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. **(40 CFR 63.6640(f))**

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c. Emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those hours are to be counted towards the 100 hours per year for maintenance and readiness testing. These 50 hours per year for non-emergency situations cannot be used for peak-shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Up to 15 hours per year can be used as part of a demand response program. **(40 CFR 63.6640(f))**

2. The permittee shall operate and maintain existing emergency stationary RICE with a site rate of less than or equal to 500 brake HP according to the manufacturer's emission-related operation and maintenance instructions or a plan developed by the facility that provides for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6625(e) and 40 CFR 63.6640(a) Table 6(9)(a))**

3. For existing emergency CI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall inspect the air cleaner every 1000 hours of operation or annually, whichever comes first. **(40 CFR 63.6603(a) and Table 2d (4)(b))**

4. 4. For existing emergency SI RICE located, the permittee shall inspect the spark plugs every 1000 hours of operation or annually, whichever comes first. **(40 CFR 63.6603(a) and Table 2d (5)(b))**

5. For existing emergency CI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first. In lieu of changing the oil and filter, the permittee may implement an oil analysis program to have the oil analyzed at the same frequency specified for changing the oil as described in 40 CFR 63.6625(i). **(40 CFR 63.6603(a) and Table 2d (4)(a) & (5)(a))**

6. If implementing an oil analysis program and if the analytical results of the oil analysis program for emergency stationary CI engines with a site rate of less than or equal to 500 brake HP indicate any of the following limits are exceeded, the permittee shall change the oil within 2 days of receiving the results of the analysis. If the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 days or before commencing operation, whichever is later. **(40 CFR 63.6625(i))**

   a. Total Base Number is less than 30 percent of the Total Base Number of the oil when new.
   b. Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
   c. Percent water content (by volume) is greater than 0.5.

7. If implementing an oil analysis program and if the analytical results of the oil analysis program for emergency stationary SI engines indicate any of the following limits are exceeded, the permittee shall change the oil within 2 days of receiving the results of the analysis. If the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 days or before commencing operation, whichever is later. **(40 CFR 63.6625(i))**

   a. Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new.
   b. Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new.
   c. Percent water content (by volume) is greater than 0.5.

8. For existing emergency CI and SI RICE with a site rate of less than or equal to 500 brake HP, the permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. **(40 CFR 63.6603(a) and Table 2d (4)(c) & (5)(c))**

9. If an existing emergency CI and SI RICE with a site rate of less than or equal to 500 brake HP is operating during an emergency and it is not possible to shutdown to perform the management practice requirements (change oil and filter, inspect air cleaner and spark plugs, and inspect hoses and belts) on the required schedule, or if performing the management practice on the required schedule would otherwise pose an

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unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. **(40 CFR 63.6603(a) and Table 2d footnote 2)**

10. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply. **(40 CFR 63.6625(h) & 40 CFR 63.6640(a))**

11. Beginning January 1, 2015, an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), the permittee must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. **(40 CFR 63.6604(b))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. For existing emergency CI and SI RICE with a site rating of 500 brake HP or less, the permittee shall install a nonresettable hour meter. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

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

1. If implementing an oil analysis program for emergency stationary CI engines with a site rate of less than or equal to 500 brake HP, the permittee shall at a minimum analyze the oil for the following three parameters: **(40 CFR 63.6625(i))**

   a. Total Base Number
   b. Viscosity
   c. Percent water content.

2. If implementing an oil analysis program for emergency stationary SI engines, the permittee shall at a minimum analyze the oil for the following three parameters: **40 CFR 63.6625(j))**

   a. Total Acid Number
   b. Viscosity
   c. Percent water content.

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

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

2. The permittee shall maintain a record of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. **(40 CFR 63.6655(a)(2))**

3. The permittee shall maintain a record of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. **(40 CFR 63.6655(a)(5))**

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4. The permittee shall maintain records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE was operated and maintained according to the facility maintenance plan. **(40 CFR 63.6655(e)(2))**

5. For existing emergency stationary RICE that do not meet the emission standards applicable to nonemergency stationary RICE, permittee shall maintain records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The records must document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. **(40 CFR 63.6655(f))**

6. If implementing an oil analysis program, the permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. **(40 CFR 63.6625(i) and (j))**

VII. REPORTING

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

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

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

5. The permittee shall report any failure to perform a management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. **(40 CFR 63 Table 2c footnote 1)**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

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

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).

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FGRULE287(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 Rule 287(c).

Emission Unit: Each emission unit that is exempt from Rule 201 pursuant to Rule 287(c).

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	2000 pounds per month	Calendar monthly total	Individual Rule 287(c) exempt coating line	SC VI.2	**R°336.1621(10), R°336.702(d)**
2. VOC	10 tons per year	12-month rolling time period as determined at the end of each calendar month	Individual Rule 287(c) exempt coating line	SC VI.2	**R°336.1621(10), R°336.702(d)**
3. VOC	30 tons per year	12-month rolling time period as determined at the end of each calendar month	FGRULE287(c)	SC VI.2	**R°336.1621(10), R°336.702(d)**

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirement
1. Coatings	200 gallons	Per month, as applied, minus water	Individual Rule 287(c) exempt coating line	SC V.1.a	**R 336.1287(c)(i)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate a miscellaneous paint spray booth unless a dry filter system or an equivalent particulate control system is installed and operating properly. **(R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

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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 5 years. (R 336.1213(3)(b)(ii))

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the DEQ Rule 287(c) Permit to Install Exemption Record form (EQP 3562) or an alternative format that is approved by the AQD District Supervisor. **(R 336.1213(3))**

    a. Volume of coating and reducer (solvent) 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))**

2. The permittee shall calculate VOC mass emission rates for each individual exempt surface coating line and for all exempt surface coating lines combined, determining monthly and 12-month rolling totals: monthly record. **(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)

1. The permittee may construct, reconstruct, modify, install or commence operation of any new or existing emission units under FGRULE287(c) without modifying the ROP providing that it is not defined as a minor or significant modification to the ROP, as defined by R 336.1216(2) and R 336.1216(3), respectively, and the activity is not excluded from exemption by any provision of R 336.1278 and the Permittee meets the requirements of R 336.1278a for the activity. **(R 336.1278, R 336.1278a)**

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FGRULE290
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: Each emission unit exempt from Rule 201 pursuant to Rule 290.

POLLUTION CONTROL EQUIPMENT

I. EMISSION LIMIT(S)

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

2. Each emission unit that the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: **(R 336.1290(a)(ii))**

   a. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 1,000 or 500 pounds per month, respectively. **(R 336.1290(a)(ii)(A))**

   b. For noncarcinogenic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 microgram per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(B))**

   c. For carcinogenic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(a)(ii)(C))**

   d. The emission unit shall not emit any air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. **(R 336.1290(a)(ii)(D))**

3. Each emission unit that emits noncarcinogenic particulate air contaminants and other air contaminants that are exempted under Rule 290(a)(i) and/or Rule 290(a)(ii), above, and 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

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or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have an exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(a)(iii)(A))**

b. The visible emissions from the emission unit are not more than 5% opacity in accordance with the methods contained in Rule 303. **(R 336.1290(a)(iii)(B))**

c. The initial threshold screening level for each particulate air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(a)(iii)(C))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

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IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in the DEQ Rule 290 Permit to Install Exemption Record form (EQP 3558) or an alternative format that is approved by the AQD District Supervisor. **(R 336.1213(3))**

   a. Records identifying each air contaminant that is emitted. **(R 336.1213(3))**

   b. Records identifying if each air contaminant is controlled or uncontrolled. **(R 336.1213(3))**

   c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. **(R 336.1213(3))**

   d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(a)(ii) and (iii). **(R 336.1213(3))**

   e. Material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in sufficient detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. **(R 336.1213(3), R 336.1290(c))**

2. The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. **(R 336.1213(3))**

   a. The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. **(R 336.1290(b), R 336.1213(3))**

   b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate. **(R 336.1213(3))**

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

See Appendix 4

VII. REPORTING

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

2. 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 may construct, reconstruct, modify, install or commence operation of any new or existing emission units under FGRULE290 without modifying the ROP providing that it is not defined as a minor or significant modification to the ROP, as defined by R 336.1216(2) and R 336.1216(3), respectively, and the activity is not excluded from exemption by any provision of R 336.1278 and the Permittee meets the requirements of R 336.1278a for the activity. **(R 336.1278, R 336.1278a)**

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E. NON-APPLICABLE REQUIREMENTS

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

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

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APPENDICES

Appendix 1-1: Abbreviations and Acronyms

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

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

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

Appendix 1-2. Schedule of Compliance

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

Appendix 1-3. Monitoring Requirements

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

Appendix 1-4. Recordkeeping

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

Appendix 1-5. Testing Procedures

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

Appendix 1-6. Permits to Install

The following table lists any PTIs issued since the effective date of previously issued ROP No. MI-ROP-M4199-~~2003~~2010. This includes any PTI that were incorporated into the Source-wide PTI No MI-PTI-M4199-2009 through amendments or modifications and any PTI that remained off-permit until this ROP renewal.

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
~~156-04~~	~~A two-part polyurethane foam system that will be injected into the hollow areas of the vehicle.~~	~~EU-Acoustical/ Structural Foam~~

Appendix 1-7. Emission Calculations

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in EUELPOSYSTEM, EUPRIMERSURFACER, EUTOPCOATSYSTEM, ~~EUDEADNER,~~ EUFINALREPAIR, EUSEALERADH, EUBOOTHCLEAN, EUPURGE, EUMISCSOLV, FGFUELFILL, FGCOLDCLEANERS, FGWELDGRIND, FGTANKS, FGRULE287(c), FGRULE290.

1. The calculation procedure described in Rule 336.2040: Method for determination of volatile organic compound emissions from coating lines and graphic arts lines.

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For EUFINALREPAIR, the following calculation method shall be used to demonstrate compliance with the final repair emission limit of 4.8 pounds per gallon coating, minus water, as applied, on calendar day volume weighted averaging period.

Follow the calculation method described in Rule 336.2040(a). Note: Monthly records are required for using all compliant materials, daily volume weighted average records are required if an individual coating exceeds the 4.8 lbs VOC/gallon minus water limit as applied.

a. Determine the VOC content of each coating including dilution, minus water, as applied, "P" during the averaging period by using the method described in R336.12040(5).

b. Determine the weight of VOC used during the averaging period "M" by using the method described in R336.12040(6).

$$M = \sum_{i=1}^{z} L_{ci} P$$

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c. Determine the total volume of coatings including dilution used on the coating line during the averaging period "G_t" using the following equation:

$$G_t = \sum_{i=1}^{z} L_{ci}$$

d. Determine the volume-weighted average weight of VOC per gallon, minus water, as applied, by the following equation:

$$P_a = M/G_t$$

e. If "P_a" is less than or equal to the specified emission limit, the coating line meets the emission limit.

2. The calculation procedure described in 40 CFR, Part 60, Subpart MM, 60.393: Performance test and compliance provisions.

3. The calculation procedure described in EPA Protocol 450/3-88-018: Protocol for Determining the daily volatile organic compound emission rate of automobile and light duty truck topcoat operations.

4. Actual value of transfer efficiency (TE) verified by testing in conformance with EPA Protocol 450/3-88-018 shall be used in VOC emission calculations to show compliance with the limit of 14.9 pounds per gallon (1.785 kilograms per liter) of applied coating solids based upon the EPA Protocol. The parameters that affect TE are described in Rule 336.2040 and EPA Protocol 450/3-88-018

5. Actual overall destruction value verified by testing Booth / Oven split (oven loading) and destruction efficiency of an incinerator shall be used in VOC emission calculations. Overall destruction efficiency = (Fraction of VOC entering an incinerator from booth / oven split) multiplied by (Fraction of VOC destroyed by an incinerator from incinerator destruction efficiency). For example, if booth / oven split is 20 percent and incinerator destruction is 90 percent, overall control efficiency is 18 percent (0.90 * 0.20 = 0.18). All parameters that affect TE influence oven loading as well.

6. Tons per year = (current month's emissions) plus (sum of previous 11- month's emissions). This is to be determined at the end of each calendar month.

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7. Pounds per hour = Monthly emissions in pounds divided by number of production hours per month. This is to be determined at the end of each calendar month.

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Appendix 1-8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

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

B. Other Reporting

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

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STATE OF MICHIGAN
RENEWABLE OPERATING PERMIT

SECTION 2

General Motors
Power House Operations

SRN:M4199

LOCATED AT

2500 E. General Motors Blvd.

Permit Number: MI-ROP-M4199-~~2010~~

Effective Date: ~~February 17, 2010~~

Expiration Date: ~~February 17, 2015~~

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**
- Those conditions that are hereby incorporated in a state only enforceable Source-wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R336.1214a(5))**
- Those conditions that are hereby incorporated in federally enforceable Source- wide PTI No. MI-PTI-M4199~~M4199~~-2010 pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

~~9.~~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))**

~~10.~~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))**

~~11.~~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))**

~~10.~~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.

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~~11.~~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))**

~~12.~~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))**

~~13.~~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))**

~~14.~~8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

~~11.~~9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**

~~13.~~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

~~16.~~11. Except as provided in Subrules 2, 3, and 4 of Rule 301, states in part; "a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of Rule 301(1)(a) or (b) unless otherwise specified in this ROP." The grading of visible emissions shall be determined in accordance with Rule 303. **(R 336.1301(1) in pertinent part)**:
   a. A 6-minute average of 20 percent opacity, except for one 6-minute average per hour of not more than 27 percent opacity.
   b. A limit specified by an applicable federal new source performance standard.

~~17.~~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

~~18.~~13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1). **(R 336.2001)**

~~19.~~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))**

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~~20.~~15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(4))**

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Monitoring/Recordkeeping

~~22.~~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.

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~~23.~~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))**

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Certification & Reporting

~~26.~~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))**

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~~27.~~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))**

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~~28.~~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))**

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~~29.~~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.

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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.

~~27.~~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.

~~28.~~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))**

~~29.~~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))**

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

Permit Shield

~~28.~~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))**

~~d.~~a. The applicable requirements are included and are specifically identified in the ROP.

~~e.~~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.

~~29.~~27. Nothing in this ROP shall alter or affect any of the following:

~~a~~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))**

~~a~~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))**

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~~o~~c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

~~a.~~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))**
    ~~a.~~b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
    ~~a.~~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))**
    ~~a.~~d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
    ~~a.~~e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**

~~35.~~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

~~36.~~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)**

~~37.~~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))**

~~38.~~32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(9))**

~~39.~~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

~~38.~~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))**

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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

~~42.~~35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(7))**

Stratospheric Ozone Protection

~~43.~~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.

~~44.~~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

~~43.~~38. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR, Part 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR, Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).

~~44.~~39. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall comply with the requirements of 40 CFR, Part 68, no later than the latest of the following dates as provided in 40 CFR, Part 68.10(a):

a. June 21, 1999,
b. Three years after the date on which a regulated substance is first listed under 40 CFR, Part 68.130, or
c. The date on which a regulated substance is first present above a threshold quantity in a process.

~~45.~~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.

~~46.~~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)**

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Emission Trading

~~27.~~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))**

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Permit To Install (PTI)

~~27.~~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))**

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~~28.~~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)**

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~~29.~~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)**

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~~30.~~46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months, or has been interrupted for 18 months, the applicable terms and conditions from that PTI shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, MDEQ, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI. [2] **(R 336.1201(4))**

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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).

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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.

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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
EUBOILER1	Natural gas-fired boiler with a maximum heat input capacity of 84 MMBtu/hr. Coal-firing capability removed upon NOTIFICATION_DATE or on December 31, 2015, whichever comes first.~~Boiler capable of coal and natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse.~~	5/19/1981	FG63-5D-EXNGBLR~~FGPOWERHOUSE~~
~~EUBOILER2~~	~~Boiler capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.~~	~~5/19/1981~~	~~FGBOILERS~~
~~EUBOILER3~~	~~Boiler capable of coal and natural gas fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.~~	~~5/19/1981, 2/25/2003~~	~~FGBOILERS~~
~~EUBOILER4~~	~~Boiler capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.~~	~~5/19/1981~~	~~FGBOILERS~~
~~EUASHCONVEYOR~~	~~Pneumatic ash conveying system controlled by a vent filter.~~	~~5/19/1981~~	~~FGASHSYSTEM~~
~~EUASHSILO~~	~~Ash silo controlled by the ash silo vent filter.~~	~~5/19/1981~~	~~FGASHSYSTEM~~
~~EUHOPPER~~	~~A Coal unloading system for the powerhouse controlled by a spray wetting system.~~	~~5/19/1981~~	~~NA~~
EUTEMPBOILER1	Portable boiler capable of natural gas fire, maximum heat input capacity of 92 MMBTU per hour; equipped with low-NOx burners.	2/12/2003	FGTEMPBOILERS
EUTEMPBOILER2	Portable boiler capable of natural gas fire, maximum heat input capacity of 92 MMBTU per hour; equipped with low NOx burners.	2/12/2003	FGTEMPBOILERS

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EUHOPPER

EMISSION UNIT CONDITIONS

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DESCRIPTION

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A Coal unloading system for the powerhouse controlled by a spray wetting system.

Flexible Group ID:

POLLUTION CONTROL EQUIPMENT

Spray wetting system.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VE	**Not to exceed 5 percent opacity[2]**	**As determined over any six-minute average**	**EUHOPPER**	**VI.1**	R°336.1220, R°336.1331

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II. MATERIAL LIMIT(S)

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

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III. PROCESS/OPERATIONAL RESTRICTION(S)

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1. NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip, maintain, and operate a spray wetting system at EUHOPPER in a satisfactory manner.[2] (R°336.1213(3), R°336.1220, R°336.1910)

V. TESTING/SAMPLING

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

1. Permittee shall conduct a visible emission observation on EUHOPPER, during the operation of EUHOPPER, once every semiannual reporting period. Visible emission observations shall be performed in accordance with R°336.1303. Records of the date, time, duration, and results of visible emissions observations shall be maintained, as well as any corrective actions, if taken. (R°336.1213(3))

See Appendix 5

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VI. MONITORING/RECORDKEEPING

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

1. Permittee shall maintain a record of preventative maintenance and malfunction programs for the spray wetting system servicing EUHOPPER. (R°336.1213(3), R°336.1911(2))

VII. REPORTING

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

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

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

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. NA	**NA**	**NA**	**NA**

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IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the federal standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Subpart Y, as they apply to EUHOPPER.

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).**

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EUBOILER1
EMISSION UNIT CONDITIONS

DESCRIPTION: Natural gas-fired boiler with a maximum heat input capacity of 84 MMBtu/hr.

Coal-firing capability removed upon NOTIFICATION DATE or on December 31, 2015, whichever comes first.

Flexible Group ID: FG63-5D-EXNGBLR

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NO_x	0.2 lb/MMBtu	Test Protocol*	EUBOILER1	SC V.1, SC VI.4	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d)
2. NO_x	73.58 tpy	12-month rolling time period as determined at the end of each calendar month	EUBOILER1	SC VI.3, SC VI.4	R 336.1205(1)(a) & (b)

*Test Protocol shall specify averaging time.

II. MATERIAL LIMITS

1. The permittee shall only burn natural gas in EUBOILER1. **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1401, R 336.1702(a), 40 CFR 52.21(c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

1. The maximum design heat input capacity for EUBOILER1 shall not exceed 84 MMBtu per hour on a fuel heat input basis. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d))**

2. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner, a device to monitor and record the monthly natural gas usage rate, when in operation, for EUBOILER1 on a continuous basis. **(R 336.1205(1)(a) & (b))**

V. TESTING/SAMPLING

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

1. Within 180 days after the emission unit EUBOILER1 becomes effective, the permittee shall verify NO_x emission rates, as specified in SC I.1, from EUBOILER1 by testing at owner's expense, in accordance with Department requirements. 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 336.2001, 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)(a) & (b))**

2. The permittee shall keep, in a format acceptable to the AQD District Supervisor, calendar day, calendar month, and 12-month rolling natural gas usage records in million cubic feet for EUBOILER1. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (b))**

3. The permittee shall calculate and keep, in a satisfactory manner, monthly and 12-month rolling total NO_x mass emission records for EUBOILER1, as required by SC I.2. These calculations are based upon applicable emission factors, maximum design parameters, and hours of operation, or stack test data and hours of operation. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (b))**

4. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit. This information shall include, but shall not be limited to the following:

   a. Compliance tests and any testing required under the special conditions of this permit.

   b. Monitoring data.

   c. Verification of heat input capacity required to show compliance with SC IV.1.

   d. Amount of natural gas combusted in EUBOILER1 on a monthly basis.

   e. All calculations necessary to show compliance with the limits contained in this permit.

   All of the above information shall be stored in a format acceptable to the Air Quality Division and shall be consistent with the requirements of 40 CFR 60.7(f). **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1401, R 336.1702(a), R 336.1912, 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. The permittee shall submit a notification stating the date that EUBOILER1 permanently ceased burning coal within 7 days of permanently ceasing burning coal or within 7 days of December 31, 2015, whichever comes first. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTIONS

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

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Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV043-EUBOILER1	120	250	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

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 DDDDD, as they apply to EUBOILER1. **(40 CFR Part 63 Subparts A & DDDDD)**

2. This emission unit becomes effective upon the submittal of a notification that states that EUBOILER1 has permanently ceased burning coal or upon December 31, 2015, whichever comes first. **(R 336.1201(3))**

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
~~FGPOWERHOUSE~~	~~Four boilers: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4. EUBOILER1 capable of coal and natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER2 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER3 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER4 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.~~	~~EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4~~
~~FGASHSYSTEM~~	~~System for the conveyance and storage of ash, from collection at the boiler bottoms of FGPOWERHOUSE through conveyance to the disposal site. Fabric filter controls exist on EUASHSILO and on EUASHCONVEYOR.~~	~~EUASHCONVEYOR, EUASHSILO~~
FGTEMPBOILERS	NA	EUTEMPBOILER1, EUTEMPBOILER2
FG63-5D-EXNGBLR~~FG-BOILERMACT~~	Requirements for existing natural gas-fired boilers at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers must comply with this subpart no later than January 31, 2016. These conditions apply to boilers with a heat input capacity of greater than or equal to 10 MMBtu per hour.~~Conditions for any existing large (≥10 MMBtu/hour heat input) natural gas or coal-fired industrial, commercial or institutional boiler or process heater as defined in 40 CFR 63.7575 (excluding limited use boilers) that is located at, or is part of, a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.2, except as specified in 40 CFR 63.7491.~~	EUBOILER1~~,~~ ~~EUBOILER2, EUBOILER3, EUBOILER4~~

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Comment [JAT2]: EUBOILER2, EUBOILER3, EUBOILER4 under PTI 91-15 have been permanently shutdown and notification submitted per PTI 91-15. EUBOILER1 ceased coal operations 12/4/2015 and notification submitted as required under PTI 91-15. Therefore, FGPOWERHOUSE is no longer applicable to FGPOWERHOUSE requirements per PTI 91-15.

Comment [JAT3]: FGASHSYSTEM was permanently shutdown 12/4/201 and notification submitted per PTI 91-15.

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Comment [JAT4]:

FGPOWERHOUSE
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Four boilers: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4. EUBOILER1 capable of coal and natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER2 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER3 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER4 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse.

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Emission Unit: EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4

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POLLUTION CONTROL EQUIPMENT

Baghouse on the exhaust from each boiler.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.03 lbs. per MMBTU[2]	As determined averaged over a three-hour time period by testing, when requested by AQD or otherwise determined by the testing protocol agreed upon by AQD.	FGPOWERHOUSE, collectively	GC13; SCs III.3, V.1	R°336.1220
2. PM	65.2 tons per 12-month rolling time period[2]	As determined at the end of each calendar month	FGPOWERHOUSE, collectively	SCs III.2, VI.2	R°336.1220
3. NO_2	0.6 lbs. per MMBTU[2]	24-hr average	FGPOWERHOUSE, collectively	GC 13; SCs II.2, III.1, VI.1, VI.3, VII.1, VII.3	40 CFR 52.21
4. SO_2	420 ppmv, corrected to 50% excess air	As determined averaged over a three-hour time period or otherwise determined by the testing protocol agreed upon by AQD.	FGPOWERHOUSE, collectively	GC 13; SCs V.2, V.3	45 FR 29720, 55 FR 11029, Michigan State Implementation Plan
5. SO_2	1.1 lbs. per MMBTU[2]	24-hr average	FGPOWERHOUSE, collectively	GC 13; SCs V.2, V.3, VI.1	R°336.1401, 40 CFR 52.21
6. VOC	2.4 lbs. per hr[2]	As determined averaged by the testing protocol agreed upon by AQD.	FGPOWERHOUSE, collectively	GC 13; SCs V.4, VI.4	R°336.1220
7. VE	Not to exceed 10 percent opacity[2]	As determined over any six-minute average	FGPOWERHOUSE, collectively	SCs III.3, VI.5, VII.2	R°336.1220, R°336.1331

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II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Sulfur content of coal	0.7 percent sulfur, by weight[2]	Instantaneous	FGPOWERHOUSE, collectively	SC V.3	R°336.1401, 40 CFR 52.21 45 FR 29720, 55 FR 11029, Michigan State Implementation Plan

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The heat input for FGPOWERHOUSE shall not exceed 4.35 x10^6 MMBTU per year.[2] **(R°336.1220)**

2. The Permittee shall not operate FGPOWERHOUSE unless the baghouses servicing FGPOWERHOUSE are installed, maintained, and operated in a satisfactory manner. Satisfactory operation includes the following:

   a. The Permittee shall not operate FGPOWERHOUSE unless the program for preventative maintenance of the bag filter collector is followed. Records of preventative maintenance shall be maintained on file for a period of five years.[2] **((R°336.1213(3)(b)(ii)), R°336.1910, R°336.1911)**

   b. The Permittee shall not operate FGPOWERHOUSE unless the Abatement Measures and Reporting Procedures for Bag Filter Malfunctions at the Detroit Hamtramck Powerhouse Operations are followed.[2] **(R°336.1301, R°336.1331, R°336.1901)**

3. Upon detecting CAM exceedance(s)/excursion(s), the permittee shall restore operation of the pollutant specific emission unit, including control device and associated pollutant capture system equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. **(40 CFR 64.7(d))**

4. When using coal, the permittee shall only use coal with a heating value that is greater than 11,000 BTU per pound to fire its powerhouse boilers. The heating values shall be the gross calorific value determined on a moist, mineral matter free basis. The moist, mineral matter free BTU/pound shall be calculated using the formula contained in the US Department of Energy, Form EIA-7A, Coal Production Report dated March 2002. This report is attached to Consent Order AQD No. 4-2005 as exhibit B and incorporated by reference. **(Consent Order AQD No. 4-2005)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. NA

V. TESTING/SAMPLING

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

1. Within 360 calendar days of the issuance of this ROP, verification of the PM pounds per MMBTU emission rate from FGPOWERHOUSE, by testing at Permittee's expense, in accordance with Department requirements, will be required. No less than 60 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of

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~~a complete report of the test results to the AQD within 60 days following the last date of the test.~~ **~~(R°336.1213(3), R°336.2001, R°336.2003, R°336.2004)~~**

~~2. Upon request of the AQD, verification of the SO_2 ppmv, corrected to 50% excess air, and pound per MMBTU emission rates from FGPOWERHOUSE, by testing at Permittee's expense, in accordance with Department requirements, will be required. No less than 60 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.~~ **~~(R°336.1213(3), R°336.2001, R°336.2003, R°336.2004, 45 FR 29720, 55 FR 11029, Michigan State Implementation Plan)~~**

~~3. The permittee shall monitor for sulfur in coal according to the following:~~

~~a. For each shipment of coal received by the permittee, the permittee shall obtain from the vendor an analysis containing the following: moisture (percent by weight), ash content (percent by weight as received), sulfur content (percent by weight as received, percent by weight dry), and BTU content (percent by weight dry, per pound as received, and per pound dry). Permittee shall maintain records of date, time, locations of samples collected, and test results obtained. Records of vendor analyses shall be maintained on file.~~

~~b. Once per calendar month, the permittee shall verify that the sulfur content of a shipment of coal received during the calendar month is in compliance with the sulfur in coal limit established in SC II.1. The sampling and analytical procedures used shall be acceptable to the AQD. Records of analyses shall be maintained on file.~~

~~The procedures delineated in this condition may be modified with the prior approval of the AQD.~~[2] **~~(R°336.1213(3), R°336.1401, 40 CFR 52.21, 45 FR 29720, 55 FR 11029, Michigan State Implementation Plan)~~**

~~4. Upon request of the AQD, verification of VOC emission rates from FGPOWERHOUSE, by testing at Permittee's expense, in accordance with Department requirements, will be required. No less than 60 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.~~ **~~(R°336.1213(3), R°336.2001, R°336.2003, R°336.2004)~~**

~~See Appendix 2.5~~

~~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 records of daily and annual fuel consumption of FGPOWERHOUSE.~~[2] **~~(R°336.1401, 40 CFR 52.21)~~**

~~2. Permittee shall calculate the PM emission rate from FGPOWERHOUSE, on a tons per month basis and on a tons per 12-month rolling time period basis, as determined at the end of each calendar month. The calculation shall be based on emission and/or heat content factors obtained from the most recent test data obtained from FGPOWERHOUSE and fuel usage records for FGPOWERHOUSE. Should test data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ.~~[2] **~~(R°336.1201(3), R°336.1220)~~**

~~3. The Permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record for NO_x emissions from FGPOWERHOUSE on a continuous basis during all time periods that FGPOWERHOUSE operatesburns coal. The CEM data shall be used for determining compliance with the NO_2 emission limitation expressed on a lbs. per MMBTU basis. Installation, calibration, maintenance, and operation shall be in accordance with the specifications outlined in Appendix 2.3 of this Section to the ROP. Permittee~~

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~~shall maintain records of NO_x emissions measurements and other data necessary to determine compliance with the emission limitation and to determine satisfactory installation, calibration, maintenance, and operation of the NO_x CEM.[2] **(R 336.1213(3), 40 CFR 52.21)**~~

~~4. Permittee shall maintain a calculation of the VOC emission rate from FGPOWERHOUSE, on a pph basis, determined by dividing the pound of VOC emitted per month by the monthly operating hours. The calculation shall be based on emission and/or heat content factors obtained from the most recent test data obtained from FGPOWERHOUSE and the maximum rated capacity of FGPOWERHOUSE. Should test data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**~~

~~5. The Permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record for visible emissions from FGPOWERHOUSE on a continuous basis. The COM data shall be used for determining compliance with the visible emission limitation. Installation, calibration, maintenance, and operation shall be in accordance with the specifications outlined in Appendix 2.3 of this Section to the ROP. Permittee shall maintain records of visible emissions measurements and other data necessary to determine compliance with the emission limitation and to determine satisfactory installation, calibration, maintenance, and operation of the COM. **(R°336.1213(3))**~~

~~6. Permittee shall maintain on record a certification from the natural gas supplier, or some alternative demonstration acceptable to the AQD, that the natural gas combusted in FGPOWERHOUSE meets the specifications of pipeline natural gas. **(R°336.1213(3))**~~

~~7. The permittee shall utilize COMS-recorded opacity as an indicator of the flexible groups compliance with the particulate matter emission limit in special condition I.1. An excursion of the PM emission limit shall be defined as 2 consecutive 1-hour block average opacity greater than 10%. **(40 CFR 64.6(c)(1)(i & ii), and (2))**~~

~~8. The permittee shall operate the COMS during all required periods when the coal fired boiler is operating. Data recorded during monitoring malfunctions, repair activities and QA/QC operations shall not be used for 40 CFR part 64 compliance. **(40 CFR 64.6(c)(3), 64.7(c))**~~

~~9. The permittee shall perform an annual COMS audit using certified filters to ensure accurate opacity readings. **(40 CFR 64.6(c)(1)(iii))**~~

~~**See Appendix 2.3, 2.4, and/or 2.7**~~

~~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. Permittee shall provide NO_x emissions reporting and NO_x CEM performance reporting as specified in Appendix 2.8B of this Section to the ROP. **(R°336.1213(3))**~~

~~5. Permittee shall provide visible emissions reporting and COM performance reporting as specified in Appendix 2.8B of this Section to the ROP. **(R°336.1213(3))**~~

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6. 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))**

See Appendix 2.8

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. SV043 - FGPOWERHOUSE	120[2]	250[2]	R°336.1225, 40 CFR 52.21(c), 40 CFR 52.21(d)

IX. OTHER REQUIREMENT(S)

1. For the purposes of Compliance Assurance Monitoring (CAM), excursions will be defined as follows: **(64.6(c)(2))**
   a) an opacity excursion is defined as 2 consecutive 1-hour block average opacity values greater than 10 percent as required in special condition VI.7.
   b) A monitoring excursion is defined as a failure to properly implement and/or maintain the preventative maintenance program as required special condition III.3

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).

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FGASHSYSTEM
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

System for the conveyance and storage of ash, from collection at the boiler bottoms of FGPOWERHOUSE through conveyance to the disposal site.

Emission Unit: EUASHCONVEYOR, EUASHSILO

POLLUTION CONTROL EQUIPMENT

Fabric filters.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lbs. per 1000 lbs. of exhaust gas, calculated on a dry gas basis[2]	As determined by the testing protocol agreed upon by AQD	EUASHCONVEYOR	SCs IV.1, V.1	R°336.1220, R°336.1331
2. PM	0.01 lbs. per 1000 lbs. of exhaust gas, calculated on a dry gas basis[2]	As determined by the testing protocol agreed upon by AQD	EUASHSILO	SCs IV.1, V.2	R°336.1220, R°336.1331
3. PM	10.2 tpy[2]	12-month rolling time period as determined at the end of each calendar month	FGASHSYSTEM	SCs VI.1, VI.2	R°336.1220

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Wetted ash, discharged from the ash storage silo through the pug mill, shall be transported to disposal sites in covered trucks as to prevent generation of fugitive dust emissions.[2] **(R°336.1372(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip, maintain, and operate the fabric filters servicing FGASHSYSTEM in a satisfactory manner. **(R°336.1213(3), R°336.1910, R°336.1911)**

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~~V. TESTING/SAMPLING~~

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

~~1. Upon request of AQD, verification of PM pounds per 1000 pounds of exhaust gas, calculated on a dry gas basis, from FGASHCONVEYOR, by testing at permittee's expense, in accordance with Department requirements, will be required. No less than 60 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R°336.1213(3), R°336.2001, R°336.2003, R°336.2004)**~~

~~2. Upon request of AQD, verification of PM pounds per 1000 pounds of exhaust gas, calculated on a dry gas basis, from FGASHSILO, by testing at permittee's expense, in accordance with Department requirements, will be required. No less than 60 30 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R°336.1213(3), R°336.2001, R°336.2003, R°336.2004)**~~

~~**See Appendix 2.5**~~

~~VI. MONITORING/RECORDKEEPING~~

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

~~1. Permittee shall calculate, and maintain a record of, the PM emission rate from FGASHSYSTEM, on a tons per year basis as determined at the end of each calendar year.[2] **(R°336.1213(3))**~~

~~2. Permittee shall maintain a record of preventative maintenance and malfunction programs for each fabric filter servicing each emission unit of FGASHSYSTEM. **(R°336.1213(3), R°336.1911(2))**~~

~~**See Appendix 2.3, 2.4, and/or 2.7**~~

~~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:~~

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~~Stack & Vent ID~~	~~Maximum Exhaust Dimensions (inches)~~	~~Minimum Height Above Ground (feet)~~	~~Underlying Applicable Requirements~~
~~1. NA~~	~~NA~~	~~NA~~	~~NA~~

~~IX. OTHER REQUIREMENT(S)~~

~~1. NA~~

~~Footnotes~~:

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

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

FGTEMPBOILERS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION
Two portable boilers, each capable of natural gas fire, each with a maximum heat input capacity of 92 MMBTU per hour; and each equipped with Low-NOX burners

Emission Unit: EUTEMPBOILER1, EUTEMPBOILER2

POLLUTION CONTROL EQUIPMENT
Low-NOX burners on each boiler.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. CO	0.14 lbs. per MMBTU heat input[2]	As determined on a 24-hr rolling average	FGTEMPBOILERS, collectively	GC 13; SCs II.2, VI.1, VI.2	**R°336.1205(1)(a), R°336.1205(3)**
2. CO	25.8 lbs. per hr[2]	As determined averaged over a three-hour time period or otherwise determined by the testing protocol agreed upon by AQD	FGTEMPBOILERS, collectively	GC 13; SCs II.2, VI.1, VI.3	**R°336.1205(1)(a), R°336.1205(3)**
3. CO	32.4 tons per 12-month rolling time period[2]	As determined at the end of each calendar month	FGTEMPBOILERS, collectively	SCs II.1, II.2, VI.1, VI.4	**R°336.1205(1)(a), R°336.1205(3)**
4. NO_X	0.05 lbs. per MMBTU heat input[2]	As determined on a 24-hr rolling average	FGTEMPBOILERS, collectively	GC 13; SCs II.2, VI.1, VI.5, VI.8	**R°336.1205(1)(a), R°336.1205(3)**
5. NO_X	9.2 lbs. per hr[2]	As determined averaged over a three-hour time period or otherwise determined by the testing protocol agreed upon by AQD	FGTEMPBOILERS, collectively	GC 13; SCs II.2, VI.1, VI.6, VI.8	**R°336.1205(1)(a), R°336.1205(3)**
6. NO_X	11.6 tons per 12-month rolling time period[2]	As determined at the end of each calendar month	FGTEMPBOILERS, collectively	SCs II.1, II.2, VI.1, VI.7, VI.8	**R°336.1205(1)(a), R°336.1205(3)**

II. MATERIAL LIMIT(S)

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

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Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	463.7 MM cubic feet per 12-month rolling time period[2]	As determined at the end of each calendar month	FGTEMPBOILERS, collectively	SC VI.1	**R°336.1205(1)(a), R°336.1205(3)**

2. The Permittee shall not combust any fuel in FGTEMPBOILERS except for natural gas.[2] **(R°336.1205(1)(a), R°336.1205(3))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. NA

V. TESTING/SAMPLING

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

1. 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 emission unit within this flexible group, the Permittee shall keep daily fuel usage records, in a format acceptable to the AQD District Supervisor, indicating the total amount of each fuel combusted in the emission unit on a daily time period basis. For natural gas usage, the records shall be maintained in units of cubic feet.[2] **(R°336.1201(3), R°336.1205(1)(a), R°336.1213(3), 40 CFR 60.48c(g))**

2. Permittee shall maintain on file a calculation of the CO emission rate from FGTEMPBOILERS, on a pounds per MMBTUs heat input basis. The calculation shall be based on rental boiler emission and/or heat content factors for EUTEMPBOILER1 and EUTEMPBOILER2 and the maximum rated capacity of FGTEMPBOILERS. Should rental boiler data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

3. Permittee shall maintain a calculation of the CO emission rate from FGTEMPBOILERS, on a pph basis. The calculation shall be based on rental boiler emission and/or heat content factors for EUTEMPBOILER1 and EUTEMPBOILER2 and the maximum rated capacity of FGTEMPBOILERS. Should rental boiler data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

4. Permittee shall calculate the CO emission rate from FGTEMPBOILERS, on a tons per month basis and on a tons per 12-month rolling time period basis, as determined at the end of each calendar month. The calculation shall be based on rental boiler emission and/or heat content factors for EUTEMPBOILER1 and EUTEMPBOILER2 and the fuel usage records for FGTEMPBOILERS. Should rental boiler data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

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5. Permittee shall maintain a calculation of the NO_X emission rate from FGTEMPBOILERS, on a pounds per MMBTUs heat input basis. The calculation shall be based on emission and/or heat content factors obtained from the most recent test data obtained from EUTEMPBOILER1 and EUTEMPBOILER2 and the maximum rated capacity of FGTEMPBOILERS. Should rental boiler data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

6. Permittee shall maintain a calculation of the NO_X emission rate from FGTEMPBOILERS, on a pph basis. The calculation shall be based on rental boiler emission and/or heat content factors for EUTEMPBOILER1 and EUTEMPBOILER2 and the maximum rated capacity of FGTEMPBOILERS. Should rental boiler data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

7. Permittee shall calculate the NO_X emission rate from FGTEMPBOILERS, on a tons per month basis and on a tons per 12-month rolling time period basis, as determined at the end of each calendar month. The calculation shall be based on emission and/or heat content factors obtained from the most recent test data obtained from EUTEMPBOILER1 and EUTEMPBOILER2 and fuel usage records for FGTEMPBOILERS. Should test data be unavailable, the Permittee shall use emission factors and heat content factors from the most recent edition of the US EPA AP-42, or alternative emission and heat content factors acceptable to the MDEQ. **(R°336.1213(3))**

8. For any emission unit of FGTEMPBOILERS, the Permittee shall maintain written documentation from the boiler manufacturer certifying that low-NOX burners have been installed on that emission unit. **(R°336.1213(3))**

See Appendix 2.3, 2.4, and/or 2.7

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. For each emission unit within this flexible group, the Permittee shall provide notification of the date of construction, the date of anticipated startup, and the date of actual startup. Notification of construction is due no later than 30 days after the commencement of construction. Notification of actual startup is due within 15 days after such date.[2] **(40 CFR 60.48c(a))**

5. The Permittee shall provide notification of the date of removal of FGTEMPBOILERS from the site. This notification shall be provided within 15 days of removal of FGTEMPBOILERS from the site.[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:

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Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVTEMPBOILER1	60 inches by 60 inches[2]	18.5[2]	**R°336.1225**
2. SVTEMPBOILER2	60 inches by 60 inches[2]	18.5[2]	**R°336.1225**

IX. OTHER REQUIREMENT(S)

1. Each emission unit of FGTEMPBOILERS shall comply with all applicable requirements of the federal Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subparts A and Dc. **(40 CFR 60.1(a), 40 CFR 60.40c(a))**

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).

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~~FG-BoilerMACT~~FG63-5D-EXNGBLR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Requirements for existing natural gas-fired boilers at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers must comply with this subpart no later than January 31, 2016. These conditions apply to boilers with a heat input capacity of greater than or equal to 10 MMBtu per hour.~~Conditions for any existing large (≥10 MMBtu/hour heat input) natural gas or coal-fired industrial, commercial or institutional boiler or process heater as defined in 40 CFR 63.7575 (excluding limited use boilers) that is located at, or is part of, a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.2, except as specified in 40 CFR 63.7491.~~

~~Four existing boilers : EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4. EUBOILER1 capable of coal and n natural gas fire, maximum heat input capacity of 84 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER2 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER3 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse. EUBOILER4 capable of coal fire, maximum heat input capacity of 248 MMBTU per hour; exhaust gases controlled by baghouse., which are subject to 40 CFR 63, Subpart DDDDD.~~

Emission Units:
EUBOILER1~~The collection of all existing industrial, commercial, and institutional boilers or process heaters within this subcategory. (EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4)~~

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POLLUTION CONTROL EQUIPMENT
~~Baghouse on the exhaust from each boiler.~~NA

I. EMISSION LIMIT(S)

NA

~~Pollutant~~	~~Limit~~	~~Time Period/ Operating Scenario~~	~~Equipment~~	~~Monitoring/ Testing Method~~	~~Underlying Applicable Requirements~~
1. ~~Hg~~	~~5.7 lb/TBtu or 6.4E-06 lb per MMBtu of steam output or 7.3E-05 lb per MWh~~	~~At all times except for periods of startup and shutdown / Coal Fired~~	~~FG-BoilerMACT~~	~~SC V.1, V.2~~	~~40 CFR 63.7500 &Table 2~~
2. ~~HCl~~	~~0.022 lb/MMBtu or 2.5E-02 lb per MMBtu of steam output or 0.27 lb per MWh~~	~~At all times except for periods of startup and shutdown / Coal Fired~~	~~FG-BoilerMACT~~	~~SC V.1, V.2~~	~~40 CFR 63.7500 &Table 2~~

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Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
3. CO	160 ppm @ 3% O2 (stack test) or 340 ppm @ 3% O2 (CEMS – 30 day rolling average) or 0.14 lb per MMBtu of steam output or 1.7 lb per MWh; 3-run average	At all times except for periods of startup and shutdown / Coal Fired	FG-BoilerMACT	SC V.1, V.2	40 CFR 63.7500 &Table 2
4. PM	0.040 TSM or 0.000053 lb/MMBtu or 4.2E-02 lb per MMBtu of steam output or 4.9E-01 lb per MWh; or (5.6E-05 lb per MMBtu of steam output or 6.5E-04 lb per MWh)	At all times except for periods of startup and shutdown / Coal Fired	FG-BoilerMACT	SC V.1, V.2	40 CFR 63.7500 &Table 2

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The permittee must comply with each emission limit specified in Table 2 of 40 CFR Part 63, Subpart DDDDD that applies to the permittee's boiler, as listed in the table above. **(40 CFR 63.7500)**

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These standards apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in Section 63.7575, during which time the permittee must comply only with Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7500)**

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II. MATERIAL LIMIT(S)

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

Coal boiler shall comply with the definition of a unit designed to burn coal/solid fossil fuel subcategory: boiler or process heater that burns any coal or other solid fossil fuel alone or at least 10 percent coal or other solid fossil fuel on an annual heat input basis in combination with liquid fuels, gaseous fuels, or less than 10 percent biomass and bio-based solids on an annual heat input basis. **(40 CFR 63.7575)**

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Boiler or process heater combusting only natural gas shall comply with the definition of a unit designed to burn gas 1 subcategory which includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels. Gaseous fuel boilers and process heaters that burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, are included in this definition. Gaseous fuel boilers and process heaters that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition. **(40 CFR 63.7575)**

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1. The permittee shall burn only natural gas in any unit in FG63-5D-EXNGBLR. **(40 CFR 63.7499(l))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

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The permittee shall conduct a tune-up of the boiler or process heater beginning with the compliance date as defined in 40 CFR 63.7495, Subpart DDDDD, annually, biennially, or once every 5 years, depending on its size, as specified in § 63.7540.

- Annually (within 13 months) for boilers or process heaters greater than or equal to 10 MMBTU/hr and less than 50 MMBTU/hr.
- Biennially (within 25 months) for boilers or process heaters greater than 5 MMBTU/hr and less than 10 MMBTU/hr
- Every five years (within 61 months) for boilers or process heaters less than or equal to 5 MMBTU/hr or boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio. **(40 CFR 63.7500)**

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The permittee must have a one-time energy assessment performed by a qualified energy assessor as required in Table 3 of 40 CFR 63, Subpart DDDDD. **(40 CFR 63.7500)**

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An existing boiler or process heater subject to emission limits in Table 2 of 40 CFR 63, Subpart DDDDD the permittee must operate all CMS during startup. For startup of a boiler or process heater, the permittee must use one or a combination of the following clean fuels: natural gas, synthetic natural gas, propane, distillate oil, syngas, ultra-low sulfur diesel, fuel oil-soaked rags, kerosene, hydrogen, paper, cardboard, refinery gas, and liquefied petroleum gas. If the permittee starts firing coal/solid fossil fuel, biomass/bio-based solids, heavy liquid fuel, or gas 2 (other) gases, vent emissions to the main stack(s) and engage all of the applicable control devices except limestone injection in fluidized bed combustion (FBC) boilers, dry scrubber, fabric filter, selective non-catalytic reduction (SNCR), and selective catalytic reduction (SCR). The permittee must start limestone injection in FBC boilers, dry scrubber, fabric filter, SNCR, and SCR systems as expeditiously as possible. Startup ends when steam or heat is supplied for any purpose. The permittee must comply with all applicable emission limits at all times except for startup or shutdown periods conforming with this work practice. The permittee must collect monitoring data during periods of startup, as specified in §63.7535(b). The permittee must keep records during periods of startup. You must provide reports concerning activities and periods of startup, as specified in §63.7555. **(40 CFR 63.7500)**

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An existing boiler or process heater subject to emission limits in Table 2 of 40 CFR 63, Subpart DDDDD the permittee must operate all CMS during shutdown. The permittee must operate all CMS during shutdown. While firing coal/solid fossil fuel, biomass/bio-based solids, heavy liquid fuel, or gas 2 (other) gases during shutdown, the permittee must vent emissions to the main stack(s) and operate all applicable control devices, except limestone injection in FBC boilers, dry scrubber, fabric filter, SNCR, and SCR. The permittee must comply with all applicable emissions limits at all times except for startup or shutdown periods conforming with this work practice. The permittee must collect monitoring data during periods of shutdown, as specified in §63.7535(b). The permittee must keep records during periods of shutdown. You must provide reports concerning activities and periods of shutdown, as specified in §63.7555. **(40 CFR 63.7500)**

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The permittee, at all times, must operate and maintain any affected source (as defined in § 63.7490), 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)**

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1. The permittee must meet the 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))**

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a. The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler, for each boiler 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 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. **(40 CFR 63.7500(e))**

4. The permittee must complete an initial tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.6, no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3 (no later than January 31, 2016). The permittee must complete the onetime energy assessment specified in Table 3 of 40 CFR Part 63, Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3 (no later than January 31, 2016). **(40 CFR 63.7510(e))**

5. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must conduct a tune-up beginning with the compliance date as defined in 40 CFR 63.7495, stated in SC IX.3, annually or once every 5 years for boilers with a continuous oxygen trim system that maintains an optimum air to fuel ratio.

a. An annual performance tune-up must be conducted according to 40 CFR 63.7540(a)(10), stated in SC IX.6.a. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up.

b. A 5-year performance tune-up must be conducted according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b. 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. FG63-5D-EXNGBLR shall apply only to boilers with a heat input capacity of greater than or equal to 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 336.1213(3)(b)(ii))**

~~The permittee must demonstrate initial compliance with each emission limit specified in Table 2 of 40 CFR Part 63, Subpart DDDDD, that applies to the permittee by either conducting performance (stack) tests, as applicable, according to Section 63.7520 and Table 5 of 40 CFR Part 63, Subpart DDDDD or, conducting fuel analyses, as applicable, according to Section 63.7521 and Table 6 of 40 CFR Part 63, Subpart DDDDD no later than 180 days after the applicable compliance date, January 31, 2016. **(40 CFR 63.7515)**~~

~~If you demonstrate compliance through performance testing, you must establish each site-specific operating limit in Table 4 to this subpart that applies to you according to the requirements in §63.7520, Table 7 to this subpart, and paragraph (b)(4) of this section, as applicable.~~

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- If the permittee must demonstate compliance through performance testing, the permittee must establish parameter operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD that applies, according to the requirements in Section 63.7520, Table 7 of 40 CFR Part 63, Subpart DDDDD, and paragraph (b)(4) of Section 63.7530, as applicable. **(40 CFR 63.7530)**

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- The permittee must conduct all performance tests according to 40 CFR 63, Section 63.7(c), (d), (f), and (h). The permittee must also develop a site-specific test plan according to the requirements in Section 63.7(c). **(40 CFR 63.7520)**

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1. The permittee must conduct all performance tests according to Section 63.7520 and Table 5 of 40 CFR Part 63, Subpart DDDDD. The permittee must conduct all applicable performance tests according to Section 63.7520 on an annual basis, except as specified in paragraphs (b) through (e), (g), and (h) of this Section 63.7515. Annual performance tests must be completed no more than 13 months after the previous performance test, except as specified in paragraphs (b) through (e), (g), and (h) of Section 63.7515. **(40 CFR 63.7515)**NA

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See Appendix 5

VI. MONITORING/RECORDKEEPING

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

- Records as applicable and required under 40 CFR 63.7555 must be in a form suitable and readily available for expeditious review. Each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Each record must be kept 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. Records can be kept off site for the remaining 3 years. **(40 CFR 63.7555 and 40 CFR 63.7560)**

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- If the boiler or process heater is subject to a CO emission limit in Tables 2 subpart of 40 CFR Part 63, Subpart DDDDD, the permittee must install, operate, and maintain an oxygen analyzer system, as defined in Section 63.7575, or install, certify, operate and maintain continuous emission monitoring systems for CO and oxygen according to the procedures in paragraphs (a)(1) through (7) of Section 63.7525. **(40 CFR 63.7525)**

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- If the boiler or process heater has an applicable opacity operating limit in this rule, and the permittee is not otherwise required or elect to install and operate a PM CPMS, PM CEMS, or a bag leak detection system, the permittee must install, operate, certify and maintain each COMS according to the procedures in paragraphs (c)(1) through (7) of Section 63.7525 by the compliance date specified in Section 63.7495. **(40 CFR 63.7525)**

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- If the boiler or process heater has an applicable operating limit that requires the use of a CMS other than a PM CPMS or COMS, the permittee must install, operate, and maintain each CMS according to the procedures in paragraphs (d)(1) through (5) of Section 63.7525 by the compliance date specified in Section 63.7495. **(40 CFR 63.7525)**

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- If the boiler or process heater has an applicable operating limit that requires the use of a flow monitoring system, the permittee must meet the requirements in paragraphs (d) and (e)(1) through (4) of Section 63.7525. **(40 CFR 63.7525)**

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- If the boiler or process heater has an applicable operating limit that requires the use of a pressure monitoring system, the permittee must meet the requirements in paragraphs (d) and (f)(1) through (6) of Section 63.7525. **(40 CFR 63.7525)**

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- If the boiler or process heater has an applicable operating limit that requires a pH monitoring system, the permittee must meet the requirements in paragraphs (d) and (g)(1) through (4) of Section 63.7525. **(40 CFR 63.7525)**

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If the boiler or process heater has an applicable operating limit that requires a secondary electric power monitoring system for an electrostatic precipitator (ESP) operated with a wet scrubber, the permittee must meet the requirements in paragraphs (h)(1) and (2) of Section 63.7525. **(40 CFR 63.7525)**

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If the boiler or process heater has an applicable operating limit that requires the use of a monitoring system to measure sorbent injection rate (e.g., weigh belt, weigh hopper, or hopper flow measurement device), you must meet the requirements in paragraphs (d) and (i)(1) through (2) of Section 63.7525. **(40 CFR 63.7525)**

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If the permittee is not required to use a PM CPMS and elect to use a fabric filter bag leak detection system to comply with the requirements of this subpart, the permittee must install, calibrate, maintain, and continuously operate the bag leak detection system as specified in paragraphs (i)(1) through (6) of Section 63.7525. **(40 CFR 63.7525)**

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For each boiler or process heater which demonstrates compliance with the mercury or HCl emissions limits in Table 2 of 40 CFR Part 63, Subpart DDDDD by use of a CEMS for mercury or HCl, the permittee must install, certify, maintain, and operate a CEMS measuring emissions discharged to the atmosphere and record the output of the system as specified in paragraphs (l)(1) through (8) of Section 63.7525. For HCl, this option for an affected unit takes effect on the date a final performance specification for a HCl CEMS is published in the Federal Register or the date of approval of a site-specific monitoring plan. **(40 CFR 63.7525)**

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For each boiler or process heater subject to a HCl emission limit in Tables 2 of 40 CFR Part 63, Subpart DDDDD and the permittee has an acid gas wet scrubber or dry sorbent injection control technology and the permittee uses an SO2 CEMS, the permittee must install the monitor at the outlet of the boiler or process heater, downstream of all emission control devices, and the permittee must install, certify, operate, and maintain the CEMS according to part 75 of this chapter. **(40 CFR 63.7525)**

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The permittee must monitor and collect data according to 40 CFR Part 63, Subpart DDDDD and the site-specific monitoring plan required by Section 63.7505(d). **(40 CFR 63.7535)**

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1. The permittee must keep all records required in 40 CFR 63.7555, as they apply to each boiler in FG63 5D EXNGBLR. **(40 CFR 63.7555)**

2. 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))**

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 5 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 2 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 3 years. **(40 CFR 63.7560(c))**

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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))**

As specified in 63.9(b)(4) and (5), if the permittee starts up a 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))**

The permittee shall submit compliance reports as required by 40 CFR 63.7550. The first time period covered by these reports shall be shortened so as to end on either June 30 or December 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5 year compliance report) after the compliance date that is specified for the applicable source in 63.7495. **(40 CFR 63.7550)**

If required to conduct initial compliance demonstrations, the permittee must submit a Notification of Compliance Status form, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance tests and/or other initial compliance demonstrations. **(40 CFR 63. 7545)**

If the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels and the permittee intends to use a different gaseous fuel subject to another regulation or another gas 1 fuel to fire the unit during a period of natural gas curtailment or supply interruption (as defined in § 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. **(40 CFR 63.7545)**

If the permittee has switched fuels or made a physical change to the boiler and the change caused the unit to fall under a different subcategory of the rule, the permittee must provide notice of the change within 30 days. **(40 CFR 63.7545(f))**

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.5 and SC VII.6, and in Subpart A of 40 CFR 63. **(40 CFR 63.7495(d))**

2. The permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted a tune-up of the unit. **(40 CFR 63.7530(d))**

3. The permittee must include with the Notification of Compliance Status a signed certification that the energy assessment was completed per the requirements of 40 CFR 63.7530(e). **(40 CFR 63.7530(e))**

4. The permittee must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e), stated in SC VII.6. **(40 CFR 63.7530(f))**

5. 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))**

6. If the permittee is not required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8). **(40 CFR 63.7545(e))**

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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, including whether the fuel(s) were a secondary material determined by the permittee or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration. **(40 CFR 63.7545(e)(1))**

b. In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the certification(s) of compliance listed in paragraph (e)(8)(i) and (ii), as applicable, and signed by a responsible official. **(40 CFR 63.7545(e)(8))**

7. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. **(40 CFR 63.7550(a))**

8. Unless the USEPA 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.10, 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.6.a, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b, and not subject to emission limits or operating limits, the permittee may submit only an annual 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 compliance report must cover the period beginning on the compliance date that is specified for each boiler in 40 CFR 63.7495, stated in SC IX.3, and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days (or 1 or 5 years, as applicable, if submitting an annual or 5-year compliance report) after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. **(40 CFR 63.7550(b)(1))**

b. The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler in 40 CFR 63.7495, stated in SC IX.3. The first annual or 5-year compliance report must be postmarked or submitted no later than January 31. **(40 CFR 63.7550(b)(2), (40 CFR 63.10(a)(5))**

c. Each subsequent 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 and 5-year compliance reports must cover the applicable 1 or 5-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**

d. Each subsequent 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 and 5-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), (40 CFR 63.10(a)(5))**

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9. 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 (iv), (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))**

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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.6.a, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.b. Include the date of the most recent burner inspection if it was not done annually 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))**

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10. The permittee must submit the reports according to the procedures specified in 40 CFR 63.7550, as applicable. If able, the permittee must submit all reports required by Table 9 using CEDRI. **(40 CFR 63.7550(h))**

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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. SV043 - FGPOWERHOUSE~~	~~120.0~~	~~250~~	~~R°336.1225, 40 CFR 52.21(c), 40 CFR 52.21(d)~~

NA

IX. OTHER REQUIREMENT(S)

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

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1. 40 CFR Part 63, Subpart DDDDD applies to existing affected sources as described in paragraph (a)(1) 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 the collection at a major source of all existing industrial, commercial, and institutional boilers within a subcategory as defined in 40 CFR 63.7575. **(40 CFR 63.7490(a)(1))**

2. A boiler is existing if it is not new or reconstructed, as defined below. **(40 CFR 63.7490(d))**

a. A boiler is new if the permittee commences construction of the boiler after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction.

(40 CFR 63.7490(b))

b. A boiler is 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 an existing boiler, the permittee must comply with 40 CFR Part 63, Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR 63.6(i). **(40 CFR 63.7495(b))**

4. The permittee must be in compliance with the emission limits, work practice standards, and operating limits of 40 CFR Part 63, Subpart DDDDD. These limits apply at all times the affected unit is operating.
(40 CFR 63.7505(a))

5. 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.6.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.6.c, for units that are not operating at the time of their scheduled tune-up.
(40 CFR 63.7515(g))

6. 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 has a heat input capacity of 10 million Btu per hour or greater, the permittee must conduct an annual tune-up of the boiler to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. 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 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, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below.

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(40 CFR 63.7540(a)(10)(vi))

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. **(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))**

b. If the boiler 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 million Btu 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 every 5 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. **(40 CFR 63.7540(a)(12))**

c. 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))**

15. 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).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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E. NON-APPLICABLE REQUIREMENTS

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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).

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APPENDICES

Appendix 2-1: Abbreviations and Acronyms

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

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

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

Appendix 2-2. Schedule of Compliance

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

Appendix 2-3. Monitoring Requirements

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

~~The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FGPOWERHOUSE, SCs VI.3 and VI.5.~~

~~Installation, calibration, maintenance, and operation of the NO_x CEM and COM shall meet the following requirements:~~

~~1. The span value shall be 2.0 times the lowest emission standard, unless an alternative span value is agreed upon by the AQD.~~

~~2. The CEM or COM shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and applicable (depending on the pollutant measured) Performance Specification of Appendix B, 40 CFR Part 60.~~

~~3. Each calendar quarter, the Permittee shall perform the Quality Assurance Procedures of the CEM set forth in Appendix F of 40 CFR Part 60.~~

~~4. The applicant shall perform an annual audit of the COM using the procedures set forth in USEPA Publication 450/4-92-010, "Performance Audit Procedures for Opacity Monitors", or an alternative procedure acceptable to the AQD.~~

~~The language in this appendix shall not be construed, on the basis of the language in this appendix alone, to conclude that any emission unit of FGPOWERHOUSE is subject to the federal Standards of Performance for New Stationary Sources (NSPS). The federal NSPS is not cited as an underlying applicable requirement for any requirement listed in this appendix.~~

Appendix 2-4. 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 2-5. Testing Procedures

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

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Appendix 2-6. Permits to Install

The following table lists any PTIs issued since the effective date of previously issued ROP No. MI-ROP-M4199-~~2003~~2010. This includes any PTI that were incorporated into the Source-wide PTI No MI-PTI-M4199-2009 through amendments or modifications and any PTI that remained off-permit until this ROP renewal.

Permit to Install Number	Description of Equipment	Corresponding Emission Unit(s) or Flexible Group(s)
~~8-03~~	~~Two portable boilers, each capable of natural gas fire, each with maximum heat input capacity of 92 MM`BTU per hour, and each equipped with low-NOx burners~~	~~EUTEMPBOILER1, EUTEMPBOILER2, FGTEMPBOILERS~~
91-15~~125-81C~~	Natural gas-fired boiler with a maximum heat input capacity of 84 MMBtu/hr.~~Four stationary boilers with maximum heat input capacities of 84, 248, 248, and 248 MMBTU/hr. All four with coal-fire capacity, one 84 and one 248 with natural gas fire capacity, the 248 with natural gas fire controlled with low-NOx burners; pneumatic ash conveying system controlled by a vent filter; ash silo controlled by a vent filter; rail unloading system for coal~~	FGPOWERHOUSE, FG63-5D-EXNGBLR, EUBOILER1, EUBOILER2, EUBOILER3, EUBOILER4, EUASHCONVEYOR, FGASHSYSTEM, EUHOPPER~~EUBOILER 1, EUBOILER2, EUBOILER3, EUBOILER4, EUASHCONVEYOR, EUASHSILO, EUHOPPER, FGPOWERHOUSE, FGASHSYSTEM~~
~~C-5722 through C-5776~~	~~All emission units at the stationary source~~	~~All emission units in Section 1 and 2~~

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Appendix 2-7. Emission Calculations

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

Appendix 2-8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

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

B. Other Reporting

General Motors
~~2010~~
Hamtramck
source not found. ~~February 17, 2015~~

ROP No: MI-ROP-M4199~~M4199~~-

Expiration Date: **Error! Reference**

PTI No.: MI-PTI-M4199-~~2010~~

There are no specific reporting requirements for this ROP. Therefore, this appendix is not applicable.

~~The permittee shall use the following approved formats and procedures for the reporting requirements referenced in FG-POWERHOUSE. Alternative formats must be approved by the AQD District Supervisor.~~

~~1. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS set forth in Appendix F of 40 CFR Part 60. Within 30 days following the end of each calendar quarter, the permittee shall submit the results to the AQD in the format of the data assessment report (Figure 1, Appendix F)~~

~~2. In accordance with 40 CFR 60.7(c) and (d), the permittee shall submit two copies of an excess emission report (EER) and/or the summary report in an acceptable format to the AQD, within 30 days following the end of each calendar quarter. The Summary Report shall follow the format of Figure 1 in 40 CFR 60.7(d). The EER shall include the following information:~~

~~All monitoring data shall be kept on file for a period of at least five years and made available to the AQD upon request.~~

~~COMS~~

~~1.The permittee shall perform an annual audit of the COMS using the procedures set forth in USEPA Publication 450/4-92-010, "Performance Audits Procedures for Opacity Monitors", or a procedure acceptable to AQD. Within 30 days following the end of the calendar quarter, the results of the annual audit shall be submitted to the AQD.~~

~~2.In accordance with 40 CFR 60.7(c) and (d), the permittee shall submit two copies of an excess emission report (EER) and/or the summary report in an acceptable format to Air Quality Division, within 30 days following the end of each calendar quarter. The Summary Report shall follow the format of Figure 1 in 40 CFR 60.7(d). The EER shall include the following information:~~

~~All monitoring data is shall be kept on file for a period of at least five years and made available to the AQD upon request.~~

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