PERMIT TO INSTALL

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COMMON ACRONYMS

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

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

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO_2e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H_2S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO_x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO_2	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**

2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**

3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**

4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**

5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**

6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal 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 Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
    a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
    b) A visible emission limit specified by an applicable federal new source performance standard.
    c) A visible emission limit specified as a condition of this Permit to Install.

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

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUPRETREAT	Pretreatment of vehicle surface to prepare it for E-coat, consisting of a water-based wash system.	October 2020	FGAUTOASSEMBLY, FGAUTOMACT
EUECOAT	An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a prep booth (light sanding) and spot prime coating booth. Repairs will take place in a prep booth (light sanding), followed by the manual application of a small amount of flash prime coating in a spot prime coating booth. Emissions from the E-coat tanks and curing oven are controlled by an RTO. Emissions from the prep booth are filtered, recirculated, and exhausted in-plant. Emissions from the spot prime booth are filtered and exhausted to atmosphere.	October 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT
EUSLR/ADH/DEAD	Various manual and robotic sealer, adhesive, and sound deadener material application stations/booths. Deadeners are applied in the body shop or paint shop. Sealers and adhesives are applied at various decks in the paint shop, body shop and final assembly area.	March 2020	FGAUTOASSEMBLY, FGAUTOMACT
EUPURFOAM	Polyurethane foam application process exhausted to the general in-plant environment.	March 2020	FGAUTOASSEMBLY, FGAUTOMACT
EUGLASSBOND	Installation of glass to the coated automobile in the final assembly area. Glass bonding emissions are emitted to the general in-plant environment.	March 2020	FGAUTOASSEMBLY, FGAUTOMACT
EUPRIMER	A prep tunnel, two (2) primer booths, one for main primer and one for tutone coloring primer, followed by curing in one of two primer ovens, a cooling tunnel, and two sanding booths (color prep and reprocess heavy sand) for repair of surface blemishes.	October 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT
EUTOPCOAT	An automatic topcoat spray application process with two parallel lines consisting of a waterborne basecoat, a heated flash-off area, a solvent-borne clearcoat, and a curing oven. Approximately 85% of the air from the spray zones is recirculated back into the process and 15% is exhausted to the concentrator and RTO1.	October 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUPURGECLEAN	Various cleaning solvents and purge solvents used in the manufacturing of automobiles. VOC emissions from the solvent-borne purge materials used within clearcoat booths are controlled by RTO1 except when collected in the purge collection system.	October 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT,
EUBODYWIPE	Pre-moistened body wipes used throughout the plant in the manufacturing of automobiles.	March 2020	FGAUTOASSEMBLY, FGAUTOMACT
EUFLUIDFILL	Each new vehicle will be filled with various fluids such as antifreeze, transmission fluid, power steering fluid, and windshield washer fluid.	June 2020	FGAUTOASSEMBLY
EUFUELFILL	Gasoline filling operation vehicle fuel filling operations. Vehicles being filled with gasoline shall be equipped with onboard refueling vapor recovery (ORVR).	June 2020	FGAUTOASSEMBLY, FGFUEL
EUSPOTREPAIR	Coating spot repair and/or clean shop area for fixing slightly blemished vehicles. Emissions are exhausted through a dry filter particulate system and emitted to the ambient air.	October 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT
EUFINALREPAIR	Final repair operations including a coating area. Emissions are exhausted to the general in-plant environment.	June 2020	FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT
EUASH/AHU/SH	All air supply housing (ASH), air handling units (AHU), and space heating for the paint shop portion of the automobile assembly operations at the Detroit Assembly Complex Mack. All units are direct-fired and equipped with low NOx burners.	June 2020	FGAUTOASSEMBLY, FGCONTROLS, FGNGEQUIP
EUHWG1	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG2	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG3	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG4	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG5	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG6	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUHWG7	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG8	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUHWG9	Hot water generator with a maximum heat input rating of 5 MMBtu/hr. This unit is equipped with a low NOx burner.	October 2020	FGAUTOASSEMBLY, FGBOILERMACT, FGNGEQUIP
EUNEWNGMACK1 &2	New Air Handling Units (AHU), Air Supply Housing (ASH) units, and space heating units installed at the Mack 1&2 building in conjunction with the Detroit Assembly Complex Mack Plant. All units are direct-fired, and the total heat input is equivalent to 74.7 MMBtu/hr.	January 2020	FGAUTOASSEMBLY, FGNGEQUIP
EUGASTANK1	12,000-gallon bulk storage tank (Tank ID #T-801A) for the storage of gasoline	June 2020	FGAUTOASSEMBLY, FGFUEL, FGTANKS
EUGASTANK2	12,000-gallon bulk storage tank (Tank ID #T-801B) for the storage of gasoline	June 2020	FGAUTOASSEMBLY, FGFUEL, FGTANKS
EUCOOLANTTANK	20,000-gallon bulk storage tank (Tank ID #T-802) for the storage of coolant	June 2020	FGTANKS
EUMETANK1	6,000-gallon storage tank (Tank ID #T-804) for the storage of windshield washer fluid	June 2020	FGAUTOASSEMBLY, FGFUEL, FGTANKS, FGOLD
EUMETANK2	6,000-gallon storage tank (Tank ID #T-804B) for the storage of windshield washer fluid	June 2020	FGAUTOASSEMBLY, FGFUEL, FGTANKS, FGOLD
EUBRKTANK	10,000-gallon storage tank (Tank ID #T-803) for the storage of brake fluid.	June 2020	FGTANKS
EUDIESELTANK1	500-gallon horizontal tank (Tank ID #1) used for storage of diesel fuel for fire pumps	1996	NA
EUDIESELTANK2	500-gallon horizontal tank (Tank ID #2) used for storage of diesel fuel for fire pumps	1996	NA
EUDIESELTANK3	500-gallon horizontal tank (Tank ID #3) used for storage of diesel fuel for fire pumps	2000	NA
EUEMERGEN1	An 850-HP natural gas-fired emergency engine	October 2020	FGNGEQUIP, FGNGEMENG1
EUEMERGEN2	An 850-HP natural gas-fired emergency engine	October 2020	FGNGEQUIP, FGNGEMENG1
EUEMERGEN3	A 350-HP natural gas-fired emergency engine	November 2020	FGNGEQUIP, FGNGEMENG2
EUEMERGEN4	A 350-HP natural gas-fired emergency engine	November 2020	FGNGEQUIP, FGNEEMENG2
EUFIREPUMP1	A 350-HP diesel-fired emergency fire pump engine with a model year of 2011 or later and a displacement of <30 liters/cylinder.	January 2020	FGFIREPUMP
EUFIREPUMP2	A 350-HP diesel-fired emergency fire pump engine with a model year of 2011 or later and a displacement of <30 liters/cylinder.	January 2020	FGFIREPUMP

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

EUPRETREAT
EMISSION UNIT CONDITIONS

DESCRIPTION

Pretreatment of vehicle surface to prepare it for E-coat, consisting of a water-based wash system.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. No materials in EUPRETREAT shall contain any VOCs or HAPs that are emitted from the process. **(R 336.1225, R 336.1702)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPHOSAIRSEAL	18	100	40 CFR 52.21(c) & (d)
2. SVPHOS2B	26	100	40 CFR 52.21(c) & (d)
3. SVPHOS5	30	100	40 CFR 52.21(c) & (d)
4. SVPHOS3	20	100	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

EUECOAT
EMISSION UNIT CONDITIONS

DESCRIPTION

An electrodeposition (E-coat) coating process consisting of a series of dip tanks, rinses, a curing oven, a cooling tunnel, followed by a prep booth (light sanding) and spot prime coating booth. Repairs will take place in a prep booth (light sanding), followed by the manual application of a small amount of spot prime coating in a spot prime coating booth. Emissions from the E-coat tanks and the curing oven are controlled by RTO1. Emissions from the prep booth are filtered, recirculated, and exhausted in-plant. Emissions from the spot prime booth are filtered and exhausted to atmosphere.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

RTO1 for control of VOC emissions from the E-coat tank and curing oven. Dry filter particulate controls on the prep booth and flash prime booth.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the electrodeposition tank and curing oven portions of EUECOAT unless FGCONTROLS is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of FGCONTROLS includes maintaining a minimum RTO1 combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed, after which the RTO combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.1910, R 336.2908)**

2. The permittee shall not operate the prep booth or the spot prime booth portions of EUECOAT unless the respective dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter particulate controls includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of the resin, pigment, and additives, as added to the EUECOAT tank, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine

compliance. Upon request of the District Supervisor, the VOC content, water content and density of the resin, pigment and additives as added to the EUECOAT tank shall be verified by testing using federal Reference Test Method 24. **(R 336.2004, R 336.2040, R 336.2041, R 336.2908)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVRTO1	76	130	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVSPOTPRM	36	120	R 336.1225, 40 CFR 52.21(c) & (d)

3. The exhaust gases from the prep booth (light sanding) shall not be discharged to the ambient air at any time. **(R 336.1225, 40 CFR 52.21(c) & (d))**

IX. OTHER REQUIREMENT(S)

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

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

EUSLR/ADH/DEAD
EMISSION UNIT CONDITIONS

DESCRIPTION

Various manual and robotic sealer, adhesive, and sound deadener material application stations/booths. Deadeners are applied in the body shop or paint shop. Sealers and adhesives are applied at various decks in the paint shop, body shop and final assembly area.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

EUPURFOAM
EMISSION UNIT CONDITIONS

DESCRIPTION

Polyurethane foam application process exhausted to the general in-plant environment.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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

EUGLASSBOND
EMISSION UNIT CONDITIONS

DESCRIPTION

Installation of glass to the coated automobile in the final assembly area. Glass bonding emissions are emitted to the general in-plant environment.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each glass bonding material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

EUPRIMER
EMISSION UNIT CONDITIONS

DESCRIPTION

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

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls on the color prep booth and reprocess heavy sand booth are recirculated and not exhausted into the ambient air. Coating booth overspray will be controlled by a waterwash particulate control system. A portion of the primer coating booth exhaust will be filtered and recirculated to the booth air make-up system. The primer coating booth and flash-off area emissions are exhausted through a bank of particulate filters, the concentrator, and RTO1. Oven emissions are exhausted directly to RTO1. Emissions from the observation zone are controlled by a particulate control system and exhausted to the ambient air.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the coating booth, ambient flash, or curing oven portions of EUPRIMER unless FGCONTROLS is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of FGCONTROLS includes collecting desorption gas inlet temperature data above the temperature from the most recent acceptable performance test minus 15 degrees Fahrenheit and can be based upon a three-hour average. Satisfactory operation of FGCONTROLS includes maintaining a minimum RTO1 combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.2908)**

2. The permittee shall not operate the primer spray booth portion of EUPRIMER unless the waterwash systems are installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the primer color prep booth and heavy sand booth portions of EUPRIMER unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash and dry filter system particulate controls includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1205, R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. The VOC content, water content and density of any coating or material as applied and as received, shall be determined using federal Reference Test Method 24 or an alternative approved by the AQD District Supervisor. Alternatively, the VOC content may be determined from manufacturer's formulation data. If the tested and the formulation values should differ, the tested results shall be used to determine compliance. Upon request of the AQD District Supervisor, the VOC content, water content and density of any coating or material shall be verified using federal Reference Test Method 24. **(R 336.1702, R 336.2004, R 336.2040, R 336.2041, R 336.2908(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPRMOBS	48	120	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBOOTHCONC*	94	130	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVRTO1	76	130	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVRTO2	82	160	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
*This stack shall be removed after the concentrator exhaust is routed to SVRTO2.			

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

IX. OTHER REQUIREMENT(S)

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

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

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

EUTOPCOAT
EMISSION UNIT CONDITIONS

DESCRIPTION

An automatic topcoat spray application process with two parallel lines, each consisting of a waterborne basecoat coating booth, a basecoat observation zone, a basecoat ambient flash-off area, a basecoat heated flash-off area, a solvent-borne clearcoat coating booth, a clearcoat observation zone, a clearcoat ambient flash-off area, and a natural gas-fired curing oven. Approximately 85 percent of the air from the spray zones is recirculated back into the process and 15 percent is exhausted to the concentrator and RTO1. The clearcoat observation and clearcoat flash-off areas are exhausted directly to RTO2.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

Booth overspray will be controlled by a waterwash particulate control system. A portion of the basecoat and clearcoat exhaust will be filtered and recirculated to the booth air make up system. All booth and heated flash-off exhausts will be routed through a bank of particulate filters, the concentrator, and RTO1. Oven emissions are exhausted directly to RTO1. Solvent-Based robots (clearcoat) will capture and recover coatings and cleaning solvents in a purge pot collection system. Emissions from the basecoat observation and ambient flash zones are controlled by a particulate control system and exhausted to atmosphere. The clearcoat observation and clearcoat flash-off areas are exhausted directly to RTO2 for the purposes of odor mitigation.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the basecoat coating booth, clearcoat coating booth, heated flash-off, or any curing oven portions of EUTOPCOAT unless FGCONTROLS is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of FGCONTROLS includes collecting desorption gas inlet temperature data above the temperature from the most recent acceptable performance test minus 15 degrees Fahrenheit and can be based upon a three-hour average. Satisfactory operation of FGCONTROLS includes maintaining a minimum RTO1 combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO1 combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.1702, R 336.2908(3))**

2. The permittee shall not operate the spray booth portions of EUTOPCOAT unless the water wash system is installed, maintained, and operated in a satisfactory manner. The permittee shall not operate the spray booth, observation zones, and flash-off areas of EUTOPCOAT unless the dry filter system is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the water wash system includes conducting

the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

3. The permittee shall not operate the clearcoat observation or clearcoat flash-off portions of EUTOPCOAT unless RTO2 is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of RTO2 includes maintaining a minimum RTO2 combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO2 combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum retention time of 0.5 seconds and one of the following:[1] **(R 336.1901)**
   a) A minimum 95 percent destruction efficiency based upon a three-hour average, or
   b) A maximum outlet VOC concentration of 5 ppm as propane based upon a three-hour average.

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVC1BCOBS (Color 1 BC Observation Zone)	40	120	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVC1CCOBS (Color 1 CC Observation Zone)	44	120	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVC2BCOBS (Color 2 BC Observation Zone)	40	120	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVC2CCOBS (Color 2 CC Observation Zone)	44	120	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVBOOTHCONC*	94	130	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVRTO1	76	130	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
7. SVC1OVHT (Color 1 oven heater box)	10	120	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVC2OVHT (Color 2 oven heater box)	10	120	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVRTO2	82	160	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
*This stack shall be removed after the concentrator exhaust is routed to SVRTO2.			

IX. OTHER REQUIREMENT(S)

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

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

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

EUPURGECLEAN
EMISSION UNIT CONDITIONS

DESCRIPTION

Various cleaning solvents and purge solvents used in the manufacturing of automobiles. VOC emissions from the solvent based purge materials used within the primer and clearcoat booths are controlled by the concentrator and RTO1 except when collected in the purge collection system.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

Solvent-Based robots (primer and clearcoat) will capture and recover coatings and cleaning solvents in a purge pot collection system. Waterborne basecoat purge is not controlled. Primer and clearcoat purge solvents not captured in the collection system will be controlled by the concentrator and RTO1.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not process solventborne purge materials in the coating booth portions of EUPRIMER and the clearcoat coating booth portions of EUTOPCOAT unless the RTO1 portion of FGCONTROLS is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of FGCONTROLS includes collecting desorption gas inlet temperature data above the temperature from the most recent acceptable performance test minus 15 degrees Fahrenheit and can be based upon a three-hour average. Satisfactory operation of FGCONTROLS includes maintaining a minimum RTO1 combustion chamber temperature at the manufacturer's recommended temperature until an acceptable performance test has been performed; after which the RTO1 combustion chamber temperature shall be maintained at the temperature during the most recent control device performance test which demonstrated compliance with a minimum 95 percent destruction efficiency based upon a three-hour average, and a minimum retention time of 0.5 seconds. **(R 336.1225, R 336.2908(3))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBOOTHCONC*	94	130	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVRTO1	76	130	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVRTO2	82	160	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
*This stack shall be removed after the concentrator exhaust is routed to SVRTO2.			

IX. OTHER REQUIREMENT(S)

NA

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

EUBODYWIPE
EMISSION UNIT CONDITIONS

DESCRIPTION

Body wipes used throughout the plant in the manufacturing of automobiles.

Flexible Group ID: FGAUTOASSEMBLY, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.1908)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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

EUFLUIDFILL
EMISSION UNIT CONDITIONS

DESCRIPTION

Each new vehicle will be filled with various fluids such as antifreeze, transmission fluid, power steering fluid, and windshield washer fluid.

Flexible Group ID: FGAUTOASSEMBLY.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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

EUSPOTREPAIR
EMISSION UNIT CONDITIONS

DESCRIPTION

Rapid reprocess coating spot repair and/or clean shop area for fixing slightly blemished vehicles.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUSPOTREPAIR unless the dry filter particulate controls are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the particulate controls includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVRPRCS	78	120	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

EUFINALREPAIR
EMISSION UNIT CONDITIONS

DESCRIPTION

Final repair operations including a coating area. Emissions are exhausted to the general in-plant environment.

Flexible Group ID: FGAUTOASSEMBLY, FGCONTROLS, FGAUTOMACT.

POLLUTION CONTROL EQUIPMENT

Dry filter particulate controls.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

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

V. TESTING/SAMPLING

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

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

IX. OTHER REQUIREMENT(S)

NA

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

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGAUTOASSEMBLY	This flexible group covers equipment used for the automotive assembly and painting operations for the Detroit Assembly Complex Mack Plant.	EUPRETREAT, EUECOAT, EUSLR/ADH/DEAD, EUPURFOAM, EUGLASSBOND, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUBODYWIPE, EUFLUIDFILL, EUFUELFILL, EUSPOTREPAIR, EUFINALREPAIR, EUASH/ASH/SH, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9, EUNEWNGMACK1&2, EUGASTANK1, EUGASTANK2, EUMETANK1, EUMETANK2
FGCONTROLS	A concentrator unit and RTO1 used for control of VOC emissions from the paint spray booths, noted flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and reprocessing/ sanding/repair booths. RTO2 is used for odor mitigation of the clearcoat observation and clearcoat flash-off areas.	EUECOAT, EUSLR/ADH/DEAD, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUSPOTREPAIR, EUFINALREPAIR, EUASH/ASH/SH, EUNEWNGMACK1&2

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.	EUPRETREAT, EUECOAT, EUSLD/ADH/DEAD, EUPURFOAM, EUGLASSBOND, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUBODYWIPE, EUSPOTREPAIR, EUFINALREPAIR
FGBOILERMACT	Gas 1 Fuel Subcategory requirements for new Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These new boilers or process heaters must comply with this subpart upon startup.	EUHWG1, EUHWG2, EUHWG3, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9
FGEMERENG1	Emergency engines subject to 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines greater than 500 HP constructed on or after January 1, 2009.	EUEMERGEN1, EUEMERGEN2
FGEMERENG2	Emergency engines subject to 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. New/Reconstructed emergency engines less than 500 HP constructed on or after January 1, 2009.	EUEMERGEN3, EUEMERGEN4
FGFIREPUMP	Two (2) 350 HP diesel -fired emergency fire pumps with model years of 2011 or later and a displacement of <30 liters/cylinder.	EUFIREPUMP1, EUFIREPUMP2
FGFUEL	All gasoline storage tanks containing fuel and equipment used 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.	EUFUELFILL, EUGASTANK1, EUGASTANK2
FGNGEQUIP	All natural gas-fired equipment in the paint shop portion of the Detroit Assembly Complex Mack Plant, except the three emergency generators, including air supply houses, space heaters, heated flash, cure ovens, the concentrator, the RTOs, and Air Handling Units/Air Supply Houses installed at the Mack 1&2 building. The natural gas equipment at the Mack 1&2 building has a total heat input capacity of 74.7 MMBtu/hr.	EUECOAT, EUSLR/ADH/DEAD, EUPRIMER, EUTOPCOAT, EUASH/AHU/SH, EUNEWNGMACK1&2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGTANKS	Any existing (placed into operation before 7/1/79), new (placed into operation on or after 7/1/79) or modified storage tank, including those that are exempt from the requirements of R 336.1201 pursuant to R 336.1284.	EUGASTANK1, EUGASTANK2, EUMETANK1, EUMETANK2, EUCOOLANTTANK, EUBRKTANK
FGOLD	The affected source is each new, reconstructed, or existing Organic Liquid Distribution (OLD) (non-gasoline) operation that is located at, or is part of, a major source of hazardous air pollutant (HAP) emissions. The affected source is comprised of storage tanks, transfer racks, equipment leak components associated with storage tanks, transfer racks and pipelines, transport vehicles, and all containers while loading or unloading at transfer racks subject to this subpart. Equipment that is part of an affected source under another NESHAP is excluded from the affected source. (40 CFR 63.2338(c)) These conditions specifically cover existing (construction pre dates April 2, 2002) liquid storage tanks which hold more than 5,000 gallons but less than 50,000 gallons and/or new liquid storage tanks which hold more than 5,000 gallons but less than 10,000 gallons of methanol/windshield washer fill solvents that are dispensed to newly assembled vehicles.	EUMETANK1, EUMETANK2

FGAUTOASSEMBLY
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

This flexible group covers equipment used for the automotive assembly and painting operations for the entire Detroit Assembly Complex Mack Plant.

Emission Unit: EUPRETREAT, EUECOAT, EUSLR/ADH/DEAD, EUPURFOAM, EUGLASSBOND, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUBODYWIPE, EUFLUIDFILL, EUFUELFILL, EUSPOTREPAIR, EUFINALREPAIR, EUASH/ASH/SH, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9, EUNEWNGMACK1&2, EUGASTANK1, EUGASTANK2, EUMETANK1, EUMETANK2.

POLLUTION CONTROL EQUIPMENT

A concentrator and RTO1 used for control of VOC emissions from primer booth, basecoat booths, clearcoat booths, and heated flash-off areas. RTO1 only used for control of VOC emissions from the E-Coat tank and curing oven, the primer curing oven, the basecoat curing ovens, and the clearcoat curing ovens. Water wash particulate controls on the prime, basecoat, and clearcoat booths. Dry filter particulate controls in the flash-off areas, spot repair booths, final repair booths, and all direct-fired natural gas equipment. Particulate controls on all observation zones. The clearcoat observation and clearcoat flash-off areas are exhausted directly to RTO2 for the purposes of odor mitigation.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	381.2[C] tpy	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2908(3)
2. VOC	3.0[C] pounds per job	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1702(a), R 336.2908
3. PM	9.20 tpy[A]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
4. PM10	7.89 tpy[A]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
5. PM2.5	6.14 tpy[A]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.1, SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
6. NOx	33.72 tpy[B]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC V.2, SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
7. CO	76.47 tpy[B]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
8. SO2	0.55 tpy[B]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) &(d)
9. GHGs as CO2e	106,518 tpy[B]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205(1)(a) & (b)

[A] This includes PM10/PM2.5 from all-natural gas combustion at the Detroit Assembly Complex Mack Paint Shop, and ASH/AHU equipment in the Mack1&2 building with a total heat input capacity equal to 74.7 MMBtu/hr. It also includes all other operations including the EUECOAT prep booth, EUPRIMER spray booths, color prep, and reprocess heavy sand booths, EUTOPCOAT spray booths, EUSPOTREPAIR, and EUFINALREPAIR. It does not include the four natural gas emergency engines or the two diesel fire pumps.

[B] This includes the emissions of this pollutant from all-natural gas combustion at the Detroit Assembly Complex Mack Paint Shop and ASH/AHU equipment in the Mack1&2 building with a total heat input capacity equal to 74.7 MMBtu/hr. It does not include the four emergency engines or the two diesel fire pumps.

[C] This limit does not include the four emergency engines or the two diesel fire pumps.

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Natural Gas	1.821 Billion standard cubic feet per year[E]	12-month rolling time period as determined at the end of each calendar month	FGAUTOASSEMBLY	SC VI.1	R 336.1205, R 336.1225, R 336.2908, 40 CFR 52.21 (c) & (d)

[E] This includes all natural gas combustion at the Detroit Assembly Complex Mack Paint Shop, and ASH/AHU equipment in the Mack1 & 2 building with a heat input capacity equal to 74.7 MMBtu/hr. It does not include the four natural gas emergency engines.

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each spray coating booth and observation zone with waterwash particulate controls, and all sanding booth operations with dry filter particulate controls. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

1. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify PM, PM10, and PM2.5 emission rates from

representative particulate emission units (or portions of emission units) as identified in a complete test plan by testing at owner's expense, in accordance with Department requirements. One EU (or portion of an EU) may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Testing shall be performed using an approved EPA Method listed in:

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

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

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

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

4. Within 365 days of saleable vehicle production, and at least once every five years from the last testing date thereafter unless the permittee has submitted an annual demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify the capture efficiency of a representative spray booth, flash-off area, observation zone, and oven portion of FGAUTOASSEMBLY to the respective VOC control device(s), by testing at owner's expense, in accordance with Department requirements, and the USEPA "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and

Light-Duty Truck Topcoat Operations," September 2008, EPA 453/R-08-002, as amended. Testing shall be performed using an approved EPA Method listed in 40 CFR 60, Appendix A and 40 CFR 63, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

5. Within 365 days of saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the removal efficiency of the concentrator and destruction efficiency of RTO1 in FGAUTOASSEMBLY by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

6. Upon request of the AQD District Supervisor, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify the destruction efficiency and/or outlet VOC concentration of RTO2 in FGAUTOASSEMBLY by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR 60 Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[1] **(R 336.1901)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following records/calculations in a format acceptable to the AQD District Supervisor. The permittee shall compile all required records and complete all required calculations and make them available within 30 days following the end of each calendar month for which records are required to be kept. These records shall also contain data, test documentation, and annual reviews which are necessary to perform calculations in the publication entitled "Protocol for Determining the Daily Volatile Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations", EPA-453/R-08-002, or as amended. (The Auto Protocol)
   a) For each material used in FGAUTOASSEMBLY:
      i. Material identification.
      ii. Material VOC content.
      iii. Material usage.
   b) The amount of natural gas burned during each calendar month and 12-month rolling time period, in cubic feet.
   c) Number of jobs each calendar month, where a job is defined as a painted vehicle leaving the assembly line.
   d) Calculations showing the FGAUTOASSEMBLY monthly emission rates, in tons per month, and annual mass VOC emission rates, as a cumulative emission rate for the first 12 months of operation and in tons per 12-month rolling time period, thereafter, as determined at the end of each calendar month. Calculations must show the capture and control efficiency of each control device used. Calculations must

also include a sample calculation based on the production of a single job and that specifies all measured or assumed process parameters (e.g., transfer, capture and control efficiencies, booth splits, etc.) and VOC emissions due to natural gas combustion. Prior to the initial testing, for each controlled section, the design combined capture and control efficiency may be used. Thereafter, values no greater than the most recently tested values may be used.

e) Calculations showing the VOC emission rate (lb/job) on a 12-month rolling basis, as determined at the end of each calendar month for the equipment covered by FGAUTOASSEMBLY.

f) Calculations showing the PM, PM10, PM2.5, SO_2, NOx, and CO mass emission rates in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FGAUTOASSEMBLY. These calculations shall be done according to a method acceptable to the AQD District Supervisor and shall use AP-42 (or other agreed upon emission factors) or emission factors developed from the testing required in SC V.1 or SC V.2.

g) Calculations showing the GHGs as CO2e mass emission rate in tons on a monthly and 12-month rolling time period, as determined at the end of each calendar month for the equipment in FGAUTOASSEMBLY.

h) Hours of operation for each calendar month and 12-month rolling time period.

All records/calculations shall be kept on file and made available to the Department upon request. **(R 336.1225, R 336.1301, R 336.1331, R 336.1702, R 336.2908(3), 40 CFR 52.21(c) & (d))**

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

3. The permittee shall maintain a record of modifications to any add-on control equipment including any testing and monitoring to demonstrate satisfactory operation upon which compliance with any of the emission limits in FGAUTOASSEMBLY, SC I.1, 2, 3, 4, and 5 depends. **(R 336.1225, R 336.1301, R 336.1331, R 336.1910, R 336.2908(3), 40 CFR 52.21(c) & (d))**

VII. REPORTING

1. For each emission unit (EU) and flexible group (FG) included in this permit, the permittee shall submit to the AQD District Supervisor, in an acceptable format, within 30 days following the end of the quarter in which the data was collected, the actual VOC, PM10, PM2.5, NOx, CO, SO_2, and GHGs as CO2e emission rates for each limit included in the permit. **(R 336.1205, R 336.1702, R 336.2908(3), 40 CFR 52.21(c) & (d))**

2. The permittee shall notify the AQD District Supervisor, in writing, of projects authorized by SC IX.3 and 4 at least 30 days prior to initialization of the activity. The notification shall include, at a minimum, a description of the type of project and any changes in testing, monitoring, recordkeeping, or other compliance evaluation activities. **(R 336.1201)**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. This permit covers automotive body, paint, and assembly operations for the Detroit Assembly Complex Mack Plant. Changes to these operations or replacement with a different process type are subject to the requirements of R 336.1201, except as disallowed by R 336.1278 or as allowed by R 336.1279 through R 336.1291 or SC IX.3 or 4. **(R 336.1201)**

2. The Department has determined that compliance with the limits listed in SC I.1 and SC 1.2 provides a level of control that is at least equivalent to and not less stringent than the standards in 40 CFR 60.392, et seq. and

R 336.1610. Accordingly, compliance with the limitations in this permit meets all applicable requirements of 40 CFR Part 60, Subpart MM and R 336.1610. **(R 336.1610, 40 CFR 60, Subpart MM)**

3. This permit authorizes any activities including projects involving physical changes or changes in the method of operation to existing emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1 through SC 1.9.

   a) As a state only enforceable requirement[1], the changes to the emission unit(s) shall not result in a meaningful change in the nature or quantity of toxic air contaminants emitted from the stationary source. The permittee shall keep on file a demonstration, consistent with AQD Policy and Procedure number AQD-025, or according to the method outlined in SC IX.4. Such activities do not require the facility to obtain any federal or state air permits. **(R 336.1201)**
   b) A demonstration that the change to the emission unit(s) does not result in a major modification that would be subject to R336.2802 or R336.2902. A demonstration that the change(s) do not result in a major modification under Part 18 or Part 19 of the Michigan Air Pollution Control Rules shall be kept on file for the life of the emission unit(s) affected by the modification and made available to the department upon request. **(R 336.2802, R 336.2902)**

4. This permit authorizes projects involving the installation of new emission units that do not require an increase in the emissions limits or performance levels specified in SC I.1 through SC I.9 under the following conditions: **(R 336.1201)**
   a) As a state-only enforceable requirement, the new emission unit will not result in an exceedance of any air toxics standards found in Rule 336.1226 or Rule 336.1227. The permittee shall keep on file, a copy of all demonstrations that the air toxics impact from the new emission unit(s) will comply with the levels specified in Rule 336.1226 or Rule 336.1227. The permittee may devise its own method to perform this demonstration subject to approval by the department.[1]
   b) The new emissions unit will not be a newly constructed or reconstructed major source of hazardous air pollutants as defined in and subject to 40 CFR 63.2 and 40 CFR 63.5(b)(3), National Emission Standard for Hazardous Air Pollutants.
   c) The installation of the new emissions unit will not cause the violation of any applicable air requirement.
   d) The installation of the new emission unit or units does not meet the criteria of a major modification pursuant to R 336.2802 nor R 336.2902.
   e) A demonstration that the new installation meets these criteria shall be kept on site for the life of the new emission unit and made available to the department upon request. The permittee must notify the department of the installation of the new emission unit. This notification must contain the information specified in R 336.1215(3)(c)(i) through (v). Construction of the new emission unit may commence upon submittal of the notice.

5. The emission limits and performance levels specified in SC I.1 through SC I.9 may be reviewed and/or adjusted when newly applicable federal requirements or any other requirement that is enforceable as a practical matter and that the Department, under its State Implementation Plan, may impose on the facility become applicable during the term of the permit that would lower allowable emissions. Adjustments to SC I.1 through SC I.9 will be made through a permit revision as of the effective date of the new applicable requirements and will reflect the impact the new applicable requirements will have on the affected emission units. Initial compliance with the adjusted emission limits and performance levels will be demonstrated over the initial compliance period granted by the newly applicable federal requirement. **(R 336.1225, R 336.2908(3), 40 CFR 52.21(c) & (d))**

6. The permittee may, at any time, request that the Department terminate the flexible emission limit provisions of this permit and issue a traditional permit. For any new or modified emission unit, or any emission unit for which new requirements have become applicable the permit conditions will reflect requirements contemporaneous with the date of installation, modification, or new requirement applicability. **(R 336.1225, R 336.2908(3), 40 CFR 52.21(c) & (d))**

7. The permittee shall implement an ambient air monitoring program at the facility. No less than 180 days after beginning construction pursuant to Permit to Install No. 14-19, the permittee shall submit a monitoring plan

for the ambient air monitoring program to the AQD Air Monitoring Unit for review and approval. The plan shall include specific information regarding the number of locations, pollutants to be monitored, instrumentation and methodologies proposed for operation of the monitoring sites. Following approval of a plan, the permittee shall begin monitoring all specified pollutants, according to the approved plan, no later than the date of startup of the Detroit Assembly Complex Mack Plant. Monitoring shall continue for at least ten years.[3] **(R 336.1201(3))**

8. The permittee shall keep records of all air monitoring data collected in the air monitoring program. The permittee shall submit all records to the AQD Air Monitoring Unit in an acceptable format within 45 days following the end of the quarter in which the data were collected.[3] **(R 336.1201(3))**

9. The permittee shall work with the City of Detroit, through the Community Benefits Ordinance to identify additional projects for the community surrounding the facility. No less than 180 days after beginning construction pursuant to Permit to Install No. 14-19, the permittee shall submit to the AQD District Supervisor and AQD Permit Section Manager a plan for the additional projects for review and approval.[3] **(R 336.1201(3))**

10. The permittee shall not operate FGAUTOASSEMBLY unless the nuisance minimization plan for odors (NMPO), as revised, is implemented. The AQD District Supervisor or the permittee may request modifications to the NMPO. Within 30 days after a request, the permittee shall submit proposed modifications to the plan for consideration by the Department. The permittee shall submit the NMPO and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the NMPO or amendments to the plan shall be considered approved.[1] **(R336.1901)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[3] This condition is included at the request of the permittee.

FGCONTROLS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A concentrator and RTO1 used for control of VOC emissions from the paint spray booths, noted flash-off areas, and curing ovens. Waterwash or dry filter particulate control on paint spray booths and reprocessing/sanding/repair booths. RTO2 is used for odor mitigation of the clearcoat observation and clearcoat flash-off areas.

Emission Unit: EUECOAT, EUSLR/ADH/DEAD, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUFUELFILL, EUSPOTREPAIR, EUFINALREPAIR, EUASH/AHU/SH, EUNEWNGMACK1&2.

POLLUTION CONTROL EQUIPMENT

A concentrator and RTO1 used for control of VOC emissions from EUPRIMER spray booth and ambient flash-off areas, EUTOPCOAT spray booth and heated flash-off areas, and solventborne purge materials primer and clearcoat booths not captured in the purge collection system. RTO1 used for direct control of VOC emissions from the E-coat tank and curing oven, EUPRIMER curing ovens, and EUTOPCOAT curing ovens. Waterwash particulate control systems on all paint spray booths. Dry filter particulate control systems on all sanding and repair booths, observation zones, and flash-off areas. Dry filter particulate control systems on all air supply housing (ASH), air handling units (AHU), and all curing ovens in the E-coat, primer, and topcoat operations. The clearcoat observation and clearcoat flash-off areas are exhausted directly to RTO2 for the purposes of odor mitigation.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FGCONTROLS unless a malfunction abatement plan (MAP) is implemented and maintained as described in Rule 911(2), for RTO1, the water wash, and the dry filter particulate system add on control devices. The MAP shall be submitted to the AQD District Supervisor for review and approval. The MAP shall, at a minimum, specify the following:
   a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
   b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
   c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

   If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall

implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1205, R 336.1225, R 336.1702, R 336.1910, R 336.1911, R 336.2908, 40 CFR 52.21(c) & (d))**

2. The permittee shall not operate the clearcoat observation or clearcoat flash-off areas of EUTOPCOAT unless a malfunction abatement plan (MAP) is implemented and maintained for RTO2 as described in Rule 911(2). The MAP shall be submitted to the AQD District Supervisor for review and approval. The MAP shall, at a minimum, specify the following:
   a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
   b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
   c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

   If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1901, R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for RTO1 in FGCONTROLS to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910, R 336.2908(3))**

2. The permittee shall install, maintain, and operate in a satisfactory manner, combustion chamber temperature monitoring devices for RTO2 in FGCONTROLS to monitor and record the temperature on a continuous basis during operation. Temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1901, R 336.1910)**

3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, temperature monitoring devices for the concentrator in FGCONTROLS to monitor and record the desorption gas inlet temperature on a continuous basis during operation. Desorption gas inlet temperature data recording shall consist of measurements made at equally spaced intervals at least once every 15 minutes. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**

4. The permittee shall maintain records of maintenance and repair activities for FGCONTROLS. Records shall identify the equipment inspected and the date of the inspection. The permittee shall also record any maintenance activities or corrective actions taken as a result of equipment inspections or due to malfunction. All records shall be kept on file and made available to the Department upon request. **(R 336.1910)**

5. The permittee shall monitor the condition of each particulate control system through weekly visual inspections (except during weeks with no production) of each basecoat and clearcoat spray booths and monthly visual inspections of each heavy and spot repair booth and the E-coat sanding booth. The permittee shall keep records of visual inspections of each exhaust filter, wet eliminator, or water wash particulate control system which include the dates and results of the inspections, and the dates and reasons for repairs. All records shall be kept on file and made available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

6. The permittee shall maintain a record of modifications to any add-on control equipment, with the exception of RTO2, including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702(a), R 336.1910, R 336.2908, 40 CFR 52.21(c) & (d))**

7. The permittee shall maintain a record of modifications to RTO2, including any testing and monitoring to demonstrate satisfactory operation upon which compliance depends. All records shall be kept on file and made available to the Department upon request. **(R 336.1901, R 336.1910, 40 CFR 52.21(c) & (d))**

8. For RTO1, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. **(R 336.1702, R 336.1910, R 336.2908)**

9. For RTO2, while in operation during production, the permittee shall conduct bypass monitoring for each bypass valve such that the valve or closure method cannot be opened without creating an alarm condition for which a record shall be made. Records of the bypass line that was open and the length of time the bypass was open shall be kept on file and made available to the Department upon request. **(R 336.1901, R 336.1910)**

10. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for RTO1 used to demonstrate compliance with the applicable VOC emission limits:
    a) Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
    b) Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.
    c) Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.
    d) Perform quarterly pressure drop readings across the concentrator.

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

11. The permittee shall keep records of maintenance inspections which include the dates, results of the inspections and the dates and reasons for repairs if made. The following items shall be inspected for RTO2, which is used for the purposes of odor mitigation:
    a) Validation of thermocouple accuracy or recalibration of each temperature thermocouple a minimum of once every 12 months. The thermocouple can be replaced in lieu of validation.
    b) Perform a heat exchange/heat transfer media inspection a minimum of once every 18 months.
    c) Perform an inspection of the valve seals condition and verify valve timing/synchronization a minimum of once every 18 months.
    d) Perform quarterly pressure drop readings across the concentrator.

The requirement to address these items is also satisfied if a destruction efficiency test has been performed on the control device within the prior 18-month period. All records shall be kept on file and made available to the Department upon request. **(R 336.1901, R 336.1910, R 336.1911)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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

FGAUTOMACT
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: EUPRETREAT, EUECOAT, EUSLD/ADH/DEAD, EUPURFOAM, EUGLASSBOND, EUPRIMER, EUTOPCOAT, EUPURGECLEAN, EUBODYWIPE, EUSPOTREPAIR, EUFINALREPAIR.

POLLUTION CONTROL EQUIPMENT

A concentrator and RTO1 used for control of VOC/HAP emissions from portions of the painting operations and curing ovens, if required for compliance.

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	Calendar Month	Existing– FGAUTOMACT with EUECOAT	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(a)
2. Organic HAP*	1.10 lb per GACS	Calendar Month	Existing– FGAUTOMACT	SC III.3, SC V.1, SC VI.3	40 CFR 63.3091(b)
3. Organic HAP	0.01 lb per lb of coating	Calendar Month	Existing– SEALERS & ADHESIVES	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(c) or 40 CFR 63.3091(c)
4. Organic HAP	0.01 lb per lb of coating	Calendar Month	Existing– Deadener Materials	SC III.3, SC V.1, SC VI.3	40 CFR 63.3090(d) or 40 CFR 63.3091(d)
• FGAUTOMACT includes Primer, Topcoat, Final Repair, Glass Bonding Primer, and Glass Bonding Adhesive operations plus all coatings and thinners, except for deadener materials and adhesive and sealers not part of glass bonding systems. • FGAUTOMACT WITH EUECOAT also includes Electrocoat operations in addition to all of the operations of FGAUTOMACT. • SEALERS & ADHESIVES include only adhesives and sealers that are not part of glass bonding systems.					
* Permittee may choose to comply with this limit if the requirements of Condition No. I.5 is met.					

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

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

   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) & (c))**

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct an initial compliance demonstration for the initial compliance period described in 40 CFR 63.3150-3151, 40 CFR 63.3160-3161, and 40 CFR 63.3170-3171. The initial compliance period begins on the applicable compliance date specified in 40 CFR 63.3083 and ends on the last day of the month following the compliance date. If the initial date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next month. **(40 CFR 63.3150, 40 CFR 63.3160, 40 CFR 63.3170, 40 CFR 63.3083(a) & (b))**

2. The permittee shall keep all records as required by 40 CFR 63.3130 in the format and timeframes outlined in 40 CFR 63.3131. **(40 CFR 63.3152(c), 40 CFR 63.3163(j))**

3. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date, for each compliance period:
   a) A copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart IIII and the documentation supporting each notification and report. **(40 CFR 63.3130(a))**
   b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP for each coating, thinner and cleaning material, the density for each coating and thinner, and the volume fraction of coating solids for each coating. **(40 CFR 63.3130(b))**
   c) For each coating or thinner used in FGAUTOMACT or FGAUTOMACT-PS2 with EUECOAT, 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 EUSLR/ADH/DEAD and EUGLASSBOND, the mass used in each month and the mass organic HAP content. **(40 CFR 63.3130(c))**
   e) Calculations of the organic HAP emission rate for FGAUTOMACT or FGAUTOMACT with EUECOAT in pounds per gallon of applied coating solids. If permittee chooses to comply with the option identified in Special Condition I.5.a., a record of the weight fraction of each organic HAP in each material added to the Electrocoat system. These calculations and records must include all raw data, algorithms, and intermediate calculations. If the ''Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,'' EPA–450/3–88–018 (Docket ID No. OAR–2002–0093 and Docket ID No. A–2001–22), is used, all data input to this protocol must be recorded. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. **(40 CFR 63.3130(c), 40 CFR 63.3163, 40 CFR 63.3173)**
   f) Calculation of the average monthly mass organic HAP content in pounds per pound of coating, separately for EUSLR/ADH/DEAD and EUGLASSBOND. **(40 CFR 63.3130(c), 40 CFR 63.3152)**
   g) The name, volume, mass fraction organic HAP content and density of each cleaning material used. **(40 CFR 63.3130(d) - (f))**
   h) Any additional records pertaining to deviations; startup, shutdown or malfunctions; emission capture systems; performance testing; capture and control efficiency determinations; transfer efficiency determinations; work practice plans; and design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special Conditions I.1 through I.4 depends, pursuant to 40 CFR 63.3130(g) through (o). **(40 CFR 63.3130(g) – (o))**
   i) Records pertaining to the design and operation of control and monitoring systems for any emission capture system or add-on control device upon which compliance with any of the emission limits in Special

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

VII. REPORTING

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

2. The Permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 63.8(f)(4) and 63.9(b) through (e) and (h), as specified in 40 CFR 63.3110. **(40 CFR 63, Subparts A and IIII)**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

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

FGBOILERMACT
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Gas 1 Fuel Subcategory requirements for new Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These new boilers or process heaters must comply the applicable provisions of this subpart upon startup.

Emission Unit:

Less than 5 MMBtu/hr	NA
Equal to or greater than 5 MMBtu/hr and less than 10 MMBtu/hr	EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9
Equal to or greater than 10 MMBtu/hr	NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

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

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must meet the applicable requirements in paragraphs (a)(1) and (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) and (e) of 40 CFR 63.7500, stated in SC III.2 and SC III.3. The permittee must meet these requirements at all times the affected unit is operating. **(40 CFR 63.7500(a))**
   a) The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source. **(40 CFR 63.7500(a)(1))**
   b) At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490, stated in SC IX.1), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**

2. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards. **(40 CFR 63.7500(b))**

3. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 of 40 CFR Part 63, Subpart DDDDD, or the operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD. Boilers and process heaters in the units designed to burn gas 1 fuel subcategory with a heat input capacity: **(40 CFR 63.7500(e))**
   a) Of less than or equal to 5 MMBtu per hour must complete a tune-up every five-years as specified in 40 CFR 63.7540, stated in SC IX.8. **(40 CFR 63.7500(e))**
   b) Greater than 5 MMBtu per hour and less than 10 MMBtu per hour must complete a tune-up every two-years as specified in 40 CFR 63.7540, stated in SC IX.8. **(40 CFR 63.7500(e))**

4. The permittee must demonstrate initial compliance with the applicable work practice standards in Table 3 to 40 CFR Part 63, Subpart DDDDD within the applicable annual, biennial, or five-year schedule as specified in 40 CFR 63.7515(d), stated in SC III.5, following the initial compliance date specified in 40 CFR 63.7495(a), stated in SC IX.4. Thereafter, you are required to complete the applicable annual, biennial, or five-year tune-up as specified in 40 CFR 63.7515(d), stated in SC III.5. **(40 CFR 63.7510(g))**

5. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must:
   a) Conduct the first annual tune-up no later than 13-months after the initial startup of the new or reconstructed boiler or process heater, the first biennial tune-up no later than 25-months after the initial startup of the new or reconstructed boiler or process heater, or the first five-year tune-up no later than 61-months after the initial startup of the new or reconstructed boiler or process heater.
   b) Conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a; biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b; or five-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13-months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25-months after the previous tune-up. Each five-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61-months after the previous tune-up. **(40 CFR 63.7515(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

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

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee must keep records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(a))**
   a) A copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.7555(a)(1))**
   b) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.7555(a)(2))**

2. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 60 or Parts 61, Part 63, or Part 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. **(40 CFR 63.7555(h))**

3. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**

4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for five-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**

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

VII. REPORTING

1. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.6 through SC VII.8, and in Subpart A of 40 CFR Part 63. **(40 CFR 63.7495(d))**

2. The permittee must report each instance in which they did not meet each emission limit and operating limit in Tables 1 through 4 to this subpart that applies. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.7550, cited in SC VII.9. **(40 CFR 63.7540(b))**

3. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. **(40 CFR 63.7545(a))**

4. As specified in 40 CFR 63.9(b)(2), if the permittee starts up the affected source before January 31, 2013, the permittee must submit an Initial Notification not later than 120 days after January 31, 2013. **(40 CFR 63.7545(b))**

5. As specified in 40 CFR 63.9(b)(4) and (5), if the permittee starts up the new or reconstructed affected source on or after January 31, 2013, the permittee must submit an Initial Notification not later than 15-days after the actual date of startup of the affected source. **(40 CFR 63.7545(c))**

6. If the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR Part 63, Subpart DDDDD, and the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545, as listed below. **(40 CFR 63.7545(f))**
   a) Company name and address. **(40 CFR 63.7545(f)(1))**
   b) Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
   c) Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. **(40 CFR 63.7545(f)(3))**
   d) Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
   e) Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**

7. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify: **(40 CFR 63.7545(g))**
   a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice. **(40 CFR 63.7545(g)(1))**
   b) The currently applicable subcategories under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(g)(2))**

c) The date on which the permittee became subject to the currently applicable emission limits. **(40 CFR 63.7545(g)(3))**
d) The date upon which the permittee will commence combusting solid waste. **(40 CFR 63.7545(g)(4))**

8. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30-days of the switch/change. The notification must identify: **(40 CFR 63.7545(h))**
   a) The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**
   b) The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**
   c) The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**

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

10. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, stated in SC VII.12, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. For units that are subject only to a requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or five-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c, and not subject to emission limits or operating limits, the permittee may submit only an annual, biennial, or five-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below, instead of a semi-annual compliance report. **(40 CFR 63.7550(b))**
    a) The first semi-annual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3, and ending on December 31 after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. When submitting an annual, biennial, or five-year compliance report, the first compliance report must cover the period beginning on the compliance date specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within one, two, or five-years, as applicable, after the compliance date that is specified in 40 CFR 63.7495. **(40 CFR 63.7550(b)(1))**
    b) The first semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3. The first annual, biennial, or five-year compliance report must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(2), 40 CFR 63.7550(b)(5))**
    c) Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and five-year compliance reports must cover the applicable one, two, or five-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**
    d) Each subsequent semi-annual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and five-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), 40 CFR 63.7550(b)(5))**

11. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule. **(40 CFR 63.7550(c))**
    a) If the facility is subject to the requirements of a tune up the permittee must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(1))**
    b) 40 CFR 63.7550(c)(5) is as follows:
       i. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
       ii. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**

iii. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.8.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.8.b, or five-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.8.c. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a five-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
v. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

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

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. 40 CFR Part 63, Subpart DDDDD applies to new or reconstructed affected sources as described in paragraph (a)(2) of 40 CFR 63.7490, as listed below. **(40 CFR 63.7490(a))**
    a) The affected source of 40 CFR Part 63, Subpart DDDDD is each new or reconstructed industrial, commercial, or institutional boiler or process heater, as defined in 40 CFR 63.7575, located at a major source. **(40 CFR 63.7490(a)(2))**

2. A boiler or process heater is:
    a) New if the permittee commences construction of the boiler or process heater after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. **(40 CFR 63.7490(b))**
    b) Reconstructed if the permittee meets the reconstruction criteria as defined in 40 CFR 63.2, the permittee commences reconstruction after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commence reconstruction. **(40 CFR 63.7490(c))**

3. If the permittee has a new or reconstructed boiler or process heater, the permittee must comply with 40 CFR Part 63, Subpart DDDDD by April 1, 2013, or upon startup of each boiler or process heater, whichever is later. **(40 CFR 63.7495(a))**

4. If the permittee has an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, paragraph (c)(2) of 40 CFR 63.7495, as listed below, applies to the permittee. **(40 CFR 63.7495(c))**
    a) Any new or reconstructed boiler or process heater at the existing source must be in compliance with this subpart upon startup. **(40 CFR 63.7495(c)(1))**

5. The permittee must be in compliance with the work practice standards of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7505(a))**

6. For affected sources, as defined in 40 CFR 63.7490, that switch subcategory consistent with 40 CFR 63.7545(h), stated in SC VII.8, after the initial compliance date, the permittee must demonstrate compliance within 60 days of the effective date of the switch, unless the compliance demonstration for this subcategory has been conducted within the previous 12 months. **(40 CFR 63.7510(k))**

7. For affected sources (as defined in 40 CFR 63.7490, stated in SC IX.1) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.8.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.8.d, for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**

8. The permittee must demonstrate continuous compliance with the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in paragraphs (a)(10) through (13) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a))**
   a) If the boiler or process heater has a heat input capacity of 10 MMBtu per hour or greater, the permittee must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. The tune-up must be conducted while burning the type of fuel or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12-months prior to the tune-up. This frequency does not apply to units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. **(40 CFR 63.7540(a)(10))**
      i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36-months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
      i. 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))**
      ii. 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))**
      iii. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
      iv. 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))**
      v. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a)(10)(vi))**
         (1) The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
         (2) A description of any corrective actions taken as a part of the tune-up. **40 CFR 63.7540(a)(10)(vi)(B))**
         (3) The type and amount of fuel used over the 12-months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**

b) If the boiler or process heater has a heat input capacity of less than 10 MMBtu per hour (except as specified in paragraph (a)(12) of 40 CFR 63.7540), the permittee must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. **(40 CFR 63.7540(a)(11))**

c) If the boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 MMBtu per hour and the unit is in the units designed to burn gas 1 subcategory, the permittee must conduct a tune-up of the boiler or process heater every five-years as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. The permittee may delay the burner inspection specified in paragraph (a)(10)(i) of 40 CFR 63.7540 until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72-months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every five-years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. **(40 CFR 63.7540(a)(12))**

d) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30-calendar days of startup. (40 CFR 63.7540(a)(13))

9. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 applies to the permittee. **(40 CFR 63.7565)**

Footnotes:

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

FGNGEMENG1
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: EUEMERGEN1, EUEMERGEN2.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	2.0 g/HP-hr Or 160 ppmvd at 15% O_2	Hourly	Each EU in FGNGEMENG1	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
2. CO	4.0 g/HP-hr OR 540 ppmvd at 15% O_2	Hourly	Each EU in FGNGEMENG1	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
3. VOC	0.50 g/HP-hr[F,G]	Hourly	Each EU in FGNGEMENG1	SC V.1, SC V.2, SC VI.4	R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 60.4233(e)

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

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGEMENG1. **(R 336.1205(1)(a), R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), R 336.2908, 40 CFR 60.4233)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any EU in FGNGEMENG1 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the 100 hours as described in SC III.2. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**

2. The permittee may operate any EU in FGNGEMENG1 for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4243(d)(2))**

3. Each EU in FGNGEMENG1 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as described in SC III.2. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d)(3)**

4. The permittee shall operate and maintain each EU in FGNGEMENG1 such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**

5. If any EU in FGNGEMENG1 is operated as a certified engine, according to procedures specified in 40 CFR Part 60, Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for each respective engine:
   a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
   b) Meet the requirements as specified in 40 CFR 1068, Subparts A through D, as applicable, including labeling and maintaining certified engines according to the manufacture's recommendations.
   c) Only change those engine settings that are permitted by the manufacturer.

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

6. If any EU in FGNGEMENG1 is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60, Subpart JJJJ, the permittee shall keep a maintenance plan for each respective EU and shall, to the extent practicable, maintain and operate each respective EU in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGNGEMENG1 with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4237(a))**

2. The nameplate capacity of each EU in FGNGEMENG1 shall not exceed 850 HP, as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 52.21(c) & (d))**

3. The emergency engines shall be 4-stroke rich-burn engines.[1] **(R 336.1225)**

V. TESTING/SAMPLING

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

1. If any EU in FGNGEMENG1 is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60, Subpart JJJJ, the permittee must demonstrate compliance as follows:
   a) Conduct an initial performance test to demonstrate compliance with the applicable emission limits in SC I.1, I.2, and I.3 within 60 days after achieving the maximum production rate at which the respective EU will be operated, but not later than 180 days after initial startup of the respective EU, or within one year after the respective EU is no longer operated as a certified engine.
   b) The performance tests shall consist of three separate test runs of at least one hour, for each performance test required in 40 CFR 60.4244 and Table 2 to Subpart JJJJ of Part 60.
   c) Subsequent performance testing shall be completed every 8,760 hours of engine operation or every three years, whichever comes first, to demonstrate compliance with the applicable emission limits.

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee maintains a yearly demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify VOC mass emissions from representative EUs in FGNGEMENG1 by testing at owner's expense, in accordance with Department requirements. Alternatively, one EU may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Testing shall be performed using approved EPA Method(s) listed in

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, the following records for each EU in FGNGEMENG1:
   a) If certified: The permittee shall keep records of the documentation from the manufacturer that the respective EU is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
   b) If non-certified: The permittee shall keep records of testing required in SC V.1.

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

2. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGNGEMENG1:
   a) If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that the respective EU has been maintained according to them, as specified in SC III.5.
   b) If non-certified: The permittee shall keep records of a maintenance plan, as required by SC III.6 and records of conducted maintenance.

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

3. The permittee shall monitor and record the total hours of operation for each EU in FGNGEMENEG1. The permittee shall document how many hours are spent for emergency operation of each EU in FGNGEMENG1 including what classified the operation as emergency. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4243, 40 CFR 60.4245(b))**

4. The permittee shall keep records of notifications submitted for the completion of construction and start-up of each EU in FGNGEMENG1. **(40 CFR 60.4245(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each EU in FGNGEMENG1. **(R 336.1216(1)(a)(v), R 336.1201(7)(a))**

2. The permittee shall submit a notification specifying whether each EU in FGNGEMENG will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of each EU in FGNGEMENG1 and within 30 days of switching the manner of operation. **(40 CFR Part 60, Subpart JJJJ)**

3. If any EU in FGNGEMENG1 has not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231, the permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following information:
   a) The date construction of the respective EU commenced.
   b) Name and address of the owner or operator.
   c) The address of the affected source.
   d) The respective EU information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement.
   e) The respective EU emission control equipment.
   f) Fuel used in the respective EU.

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

4. The permittee shall submit an initial notification as required in 40 CFR 63.6645(f) for each EU in FGNGEMENG1. The notification must include the information in 40 CFR 63.9(b)(2)(i)-(v):
   a) The name and address of the owner or operator.
   b) The address (i.e., physical location) of the affected source.
   c) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date.
   d) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted.
   e) A statement of whether the affected source is a major source or an area source.

   The notification must also include a statement that each EU in FGNGEMENG1 has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions). **(40 CFR 63.9(b)(2)(i)-(v), 40 CFR 63.6590(b)(1), 40 CFR 63.6645(f))**

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGEN1	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVGEN2	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to FGNGEMENG1. **(40 CFR Part 60, Subparts A & JJJJ)**

2. The permittee shall comply with the provisions of the federal National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to FGNGEMENG1. **(40 CFR Part 63, Subparts A & ZZZZ)**

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

FGNGEMENG2
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: EUEMERGEN3, EUEMERGEN4.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	2.0 g/HP-hr Or 160 ppmvd at 15% O_2	Hourly	Each EU in FGNGEMENG2	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
2. CO	4.0 g/HP-hr OR 540 ppmvd at 15% O_2	Hourly	Each EU in FGNGEMENG2	SC V.1, SC V.2, SC VI.2, SC VI.3	R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4233(e)
3. VOC	1.0 g/HP-hr[F,G]	Hourly	Each EU in FGNGEMENG2	SC V.1, SC V.2, SC VI.4	R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 60.4233(e)

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

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline quality natural gas in FGNGEMENG2. **(R 336.1205(1)(a), R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d), R 336.2908, 40 CFR 60.4233)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any EU in FGNGEMENG2 for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the 100 hours as described in SC III.2. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**

2. The permittee may operate any EU in FGNGEMENG2 for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4243(d)(2))**

3. Each EU in FGNGEMENG2 may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as described in SC III.2. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d)(3)**

4. The permittee shall operate and maintain each EU in FGNGEMENG2 such that it meets the emission limits in SC I.1, I.2, and I.3 over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**

5. If any EU in FGNGEMENG2 is operated as a certified engine, according to procedures specified in 40 CFR Part 60, Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for each respective engine:
   a) Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions,
   b) Meet the requirements as specified in 40 CFR 1068, Subparts A through D, as applicable, including labeling and maintaining certified engines according to the manufacture's recommendations,
   c) Only change those engine settings that are permitted by the manufacturer.

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

6. If any EU in FGNGEMENG2 is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60, Subpart JJJJ, the permittee shall keep a maintenance plan for each respective EU and shall, to the extent practicable, maintain and operate each respective EU in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGNGEMENG2 with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4237(a))**

2. The nameplate capacity of each EU in FGNGEMENG2 shall not exceed 350 HP, as certified by the equipment manufacturer. **(R 336.1205(1)(a) & (b), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4230)**

3. The emergency engines shall be 4-stroke rich-burn engines.[1] **(R 336.1225)**

V. TESTING/SAMPLING

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

1. If any EU in FGNGEMENG2 is a non-certified engine or a certified engine operating in a non-certified manner, per 40 CFR Part 60, Subpart JJJJ, the permittee must demonstrate compliance as follows:
   a) Conduct an initial performance test to demonstrate compliance with the applicable emission limits in SC I.1, I.2, and I.3 within 60 days after achieving the maximum production rate at which the respective EU will be operated, but not later than 180 days after initial startup of the respective EU, or within one year after the respective EU is no longer operated as a certified engine.
   b) The performance tests shall consist of three separate test runs of at least one hour, for each performance test required in 40 CFR 60.4244 and Table 2 to Subpart JJJJ of Part 60.
   c) Subsequent performance testing shall be completed every 8,760 hours of engine operation or every three years, whichever comes first, to demonstrate compliance with the applicable emission limits.

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee documents annually that the most recent acceptable test remains valid and representative, the permittee shall verify VOC mass emissions from representative EUs in FGNGEMENG2 by testing at owner's expense, in accordance with Department requirements. Alternatively, one EU may be tested if the permittee provides a demonstration to the AQD that the tested unit(s) is identical to and/or the emission rates from the tested unit(s) are representative of the other unit(s). Testing shall be performed using approved EPA Method(s) listed in

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

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

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, the following records for each EU in FGNGEMENG2:
   a) If certified: The permittee shall keep records of the documentation from the manufacturer that the respective EU is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
   b) If non-certified: The permittee shall keep records of testing required in SC V.1.

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

2. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGNGEMENG2:
   a) If certified: The permittee shall keep the manufacturer's emission-related written instructions and records demonstrating that the respective EU has been maintained according to them, as specified in SC III.5.
   b) If non-certified: The permittee shall keep records of a maintenance plan, as required by SC III.6 and records of conducted maintenance.

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

3. The permittee shall monitor and record the total hours of operation for each EU in FGNGEMENEG. The permittee shall document how many hours are spent for emergency operation of each EU in FGNGEMENG2 including what classified the operation as emergency. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4243, 40 CFR 60.4245(b))**

4. The permittee shall keep records of notifications submitted for the completion of construction and start-up of each EU in FGNGEMENG2. **(40 CFR 60.4245(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of each EU in FGNGEMENG2. **(R 336.1201(7)(a))**

2. The permittee shall submit a notification specifying whether each EU in FGNGEMENG2 will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of each EU in FGNGEMENG2 and within 30 days of switching the manner of operation. **(40 CFR Part 60, Subpart JJJJ)**

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGEN3	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVGEN4	7.5	10	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subpart A and Subpart JJJJ, as they apply to FGNGEMENG2. **(40 CFR Part 60, Subparts A & JJJJ, 40 CFR 63.6590)**

2. The permittee shall comply with the provisions of the federal National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to FGNGEMENG2. In accordance with 40 CFR 63.6590(c)(6), a new or reconstructed emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions meets the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ. **(40 CFR Part 63 Subparts A & ZZZZ, 40 CFR 63.6590)**

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

FGFIREPUMP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two (2) 350 HP diesel -fired emergency fire pumps with model years of 2011 or later and a displacement of <30 liters/cylinder.

Emission Unit: EUFIREPUMP1, EUFIREPUMP2.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NMHC[H]+NOx	3.0 g/bhp-hr[I]	Hourly	Each EU in FGFIREPUMP	SC V.1, SC V.2, SC VI.2, SC VI.3	40 CFR 60.4205(c), Table 4 of 40 CFR Part 60, Subpart IIII
2. CO	2.6 g/bhp-hr[I]	Hourly	Each EU in FGFIREPUMP	SC V.1, SC V.2, SC VI.2, SC VI.3	40 CFR 60.4205(c), Table 4 of 40 CFR Part 60, Subpart IIII
3. PM	0.15 g/bhp-hr[I]	Hourly	Each EU in FGFIREPUMP	SC V.1, SC V.2, SC VI.2, SC VI.3	R336.1205(1)(a) & (b), R 336.1331(1)(c), 40 CFR 60.4205(c), Table 4 of 40 CFR Part 60, Subpart IIII
4. VOC	0.10 g/bhp-hr	Hourly	Each EU in FGFIREPUMP	SC V.2, SC VI.4	R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2908

[H] NMHC = nonmethane hydrocarbon

[I] These emission limits are for certified engines; if testing becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c).

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in FGFIREPUMP with a maximum sulfur content of 15 ppm (0.0015 percent) by weight, and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. **(R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 80.510(b))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any EU in FGFIREPUMP for more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d))**

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

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

   If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine may be considered a non-certified engine. **(40 CFR 60.4211(a) & (c), R 336.2908)**

4. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for each respective EU in FGFIREPUMP and shall, to the extent practicable, maintain and operate engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g)(2), R 336.2908)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each EU in FGFIREPUMP with a non-resettable hours meter to track the operating hours. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 52.21(c) & (d), 40 CFR 60.4209(a))**

2. The maximum NFPA nameplate engine power of each EU in FGFIREPUMP shall not exceed 350 brake HP. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2908, Table 4 of 40 CFR Part 60, Subpart IIII)**

V. TESTING/SAMPLING

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

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

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

2. Within 365 days after saleable vehicle production, the permittee shall conduct initial testing and, at least once every five years thereafter unless the permittee maintains a yearly demonstration that the most recent acceptable test remains valid and representative, the permittee shall verify VOC mass emissions from all EUs in FGFIREPUMP by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908, 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 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.908, 40 CFR 60.4211, 40 CFR 60.4214)**

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

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

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for each EU in FGFIREPUMP:
   a) For certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.3.
   b) For uncertified engine: The permittee shall keep records of a maintenance plan, as required by SC III.4, and maintenance activities.

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

4. The permittee shall keep, in a satisfactory manner, test reports for each EU in FGFIREPUMP required by SC V.2 and SC V.3 on file at the facility. The permittee shall make the records available to the Department upon request. **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2908)**

5. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for each EU in FGFIREPUMP, on a monthly and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for

emergency operation of each EU in FGFIREPUMP, including what classified the operation as emergency. **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2908, 40 CFR 60.4211, 40 CFR 60.4214)**

6. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in each EU in FGFIREPUMP, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b), as specified in SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(c) & (d), 40 CFR 60.4207(b), 40 CFR 80.510(b))**

VII. REPORTING

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

2. The permittee shall submit a notification specifying whether each EU in FGFIREPUMP will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(R 336.1201(3))**

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPUMP1	7.5	15	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVPUMP2	7.5	15	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subpart A and Subpart IIII, as they apply to each EU in FGFIREPUMP. **(40 CFR Part 60, Subparts A & IIII, 40 CFR 63.6590)**

2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, as they apply to each EU in FGFIREPUMP. In accordance with 40 CFR 63.6590(c)(6), a new or reconstructed emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions meets the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. **(40 CFR Part 63 Subparts A and ZZZZ, 40 CFR 63.6590)**

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

FGFUEL
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).

Emission Unit: EUFUELFILL, EUGASTANK1, EUGASTANK2.

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)

1. The permittee shall not add gasoline to any vehicle without an Onboard Re-fueling Vapor Recovery (ORVR) system. **(R336.1225, R 336.1702(a), R336.1910, R 336.2908)**

2. The permittee shall not load or allow the loading of gasoline from a delivery vessel into any new stationary vessel of more than 2,000 gallons (7.57 cubic meters or 7,571 liters) capacity unless such stationary vessel is equipped with a permanent submerged fill pipe. **(R 336.1703(1), R 336.2908)**

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

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material introduced to the storage tanks in FGFUEL, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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

FGNGEQUIP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All natural gas-fired equipment in the paint shop portion of the Detroit Assembly Complex Mack Plant, except the four emergency generators, including air supply houses, space heaters, heated flash, cure ovens, the concentrator, the RTOs, and Air Handling Units/Air Supply Houses installed at the Mack1&2 building. The natural gas equipment at the Mack1&2 building has a total heat input capacity of 74.7 MMBtu/hr.

Emission Unit: EUECOAT, EUSLR/ADH/DEAD, EUPRIMER, EUTOPCOAT, EUASH/ASH/SH, EUNEWNGMACK1&2, EUHWG1, EUHWG2, EUHWG3, EUHWG4, EUHWG5, EUHWG6, EUHWG7, EUHWG8, EUHWG9.

POLLUTION CONTROL EQUIPMENT

Low NOx burners on all equipment, RTO1 for VOC control of spray booths and curing ovens in EUECOAT, EUPRIMER, and EUTOPCOAT, dry filter particulate controls on direct-fired natural gas equipment. RTO2 for odor mitigation of the clearcoat observation and flash-off areas.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGNEQUIP unless Low NOx burners are installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))**

2. The permittee shall not operate any air handling units, any air supply houses, and any curing ovens in EUECOAT, EUPRIMER, and EUTOPCOAT in FGNGEQUIP unless the respective dry filter particulate control systems are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the dry filter control system includes conducting the required monitoring and recordkeeping pursuant to FGAUTOASSEMBLY, SC VI.2. **(R 336.1205(1)(a) & (3), R 336.1331, 40 CFR 52.21(c) & (d))**

3. All air supply houses, air handling units, and E-coat, primer, and topcoat oven(s) in FGNGEQUIP shall be direct-fired units. **(R 336.1205, R 336.1225, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

1. Within 60 days of start-up, the permittee shall provide information acceptable to the AQD District Supervisor demonstrating the Hot Water Generators (HWG), the air supply houses, and the space heaters are equipped with Low NOx burners. **(R 336.1205(1)(a) & (3))**

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBOOTHCONC**	94	130	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVRTO1	76	130	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVHWG1*	14	15	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVHWG2*	14	15	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVHWG3*	14	15	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVHWG4*	14	15	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVHWG5*	14	15	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVHWG6*	14	90	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVHWG7*	14	90	R 336.1225, 40 CFR 52.21(c) & (d)
10. SVHWG8*	14	90	R 336.1225, 40 CFR 52.21(c) & (d)
11. SVHWG9*	14	90	R 336.1225, 40 CFR 52.21(c) & (d)
12. SVPRMHT1	12	120	R 336.1225, 40 CFR 52.21(c) & (d)
13. SVPRMHT2	12	120	R 336.1225, 40 CFR 52.21(c) & (d)
14. SVC1OVHT	10	120	R 336.1225, 40 CFR 52.21(c) & (d)
15. SVC2OVHT	10	120	R 336.1225, 40 CFR 52.21(c) & (d)
16. SVRTO2	82	160	R 336.1225, R 336.1901, 40 CFR 52.21(c) & (d)
*These stacks are horizontal **This stack shall be removed after the concentrator exhaust is routed to SVRTO2.			

IX. OTHER REQUIREMENT(S)

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

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

FGTANKS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

Emission Unit: EUGASTANK1, EUGASTANK2, EUCOOLANTTANK, EUMETANK1, EUMETANK2.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

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

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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

2. Any gasoline tank or volatile organic liquid (VOL) storage tank shall comply with New Source Performance Standards, 40 CFR Part 60, Subparts A, K, Ka, Kb based upon installation or modification date and applicability and designation of affected facility provisions in 40 CFR 60.110, 60.110a, 60.110b. Construction, reconstruction, or modification dates are as follows: **(40 CFR Part 60, Subparts A, K, Ka, Kb)**
   a) Subpart K: after June 11, 1973 and prior to May 19,1978.
   b) Subpart Ka: after May 18,1978 and prior to July 23, 1984.
   c) Subpart Kb: after July 23, 1984.

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

FGOLD
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

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

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

Emission Units: EUMETANK1, EUMETANK2.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

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

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

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep documentation, including a record of the annual average true vapor pressure of the total Table 1 Organic liquid, which verifies the storage tank is not required to be controlled under this subpart. The documentation shall be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review. **(40 CFR 63.2343(b)(3))**

VII. REPORTING

1. The permittee shall submit the following information in either the Notification of Compliance Status, according to the schedule in Table 12 to this subpart, or in your first Compliance report according to the schedule in 63.2386(b), whichever occurs first. **(40 CFR 63.2343(b)(1))**
   a) Company name and address.
   b) A statement by a responsible official, including the official's name, title and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate and complete.
   c) Date of report and beginning and ending dates of the reporting period.
   d) A list of all storage tanks greater than 5,000 gallons that are part of the affected source but not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.

2. The permittee shall submit subsequent compliance reports according to the schedule in 63.2386(b) or in conjunction with the reporting requirements in this permit whenever any of the following events occur as applicable: **(40 CFR 63.2343(b)(2))**
   a) Any storage tank became subject to control under this subpart EEEE.
   b) Any storage tank greater than 5,000 gallons became part of the affected source, but is not subject to any emission limitations, operating limits or work practice standards of this subpart.

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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