MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

August 16, 2016

PERMIT TO INSTALL
279-05A

ISSUED TO
Penske Vehicle Services

LOCATED AT
1225 East Maple Road
Troy, Michigan

IN THE COUNTY OF
Oakland

STATE REGISTRATION NUMBER
B7161

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: **May 17, 2016**	
DATE PERMIT TO INSTALL APPROVED: **August 16, 2016**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO_2e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
		gr	Grains
EU	Emission Unit	HAP	Hazardous Air Pollutant
FG	Flexible Group	Hg	Mercury
GACS	Gallons of Applied Coating Solids	hr	Hour
GC	General Condition	HP	Horsepower
GHGs	Greenhouse Gases	H_2S	Hydrogen Sulfide
HVLP	High Volume Low Pressure*	kW	Kilowatt
ID	Identification	lb	Pound
IRSL	Initial Risk Screening Level	m	Meter
ITSL	Initial Threshold Screening Level	mg	Milligram
LAER	Lowest Achievable Emission Rate	mm	Millimeter
MACT	Maximum Achievable Control Technology	MM	Million
MAERS	Michigan Air Emissions Reporting System	MW	Megawatts
MAP	Malfunction Abatement Plan	NMOC	Non-methane Organic Compounds
MDEQ	Michigan Department of Environmental Quality	NO_x	Oxides of Nitrogen
		ng	Nanogram
MSDS	Material Safety Data Sheet	PM	Particulate Matter
NA	Not Applicable	PM10	Particulate Matter equal to or less than 10 microns in diameter
NAAQS	National Ambient Air Quality Standards		
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonable Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO_2	Sulfur Dioxide
SCR	Selective Catalytic Reduction	TAC	Toxic Air Contaminant
SNCR	Selective Non-Catalytic Reduction	Temp	Temperature
SRN	State Registration Number	THC	Total Hydrocarbons
TEQ	Toxicity Equivalence Quotient	tpy	Tons per year
USEPA/EPA	United States Environmental Protection Agency	µg	Microgram
		µm	Micrometer or Micron
VE	Visible Emissions	VOC	Volatile Organic Compounds
		yr	Year

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

GENERAL CONDITIONS

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

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

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

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

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

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

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**

8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.

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

10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
    a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
    b) A visible emission limit specified by an applicable federal new source performance standard.
    c) A visible emission limit specified as a condition of this Permit to Install.

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

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

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID*	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUHiBakeEast	The high-bake surface coating line is used to apply primers, base coats, and clear coats to various metal automobile parts, plastic automobile parts, and assembled vehicles. The line consists of a prime station followed by a flash-off area and a natural gas fired primer oven and two topcoat spray stations, each of which is followed by a flash-off area and a natural gas fired cure oven. Each spray station is equipped with dry filters to control particulate emissions. This coating line is one continuous tunnel with multiple spray stations.	01-19-2006	FGHiBakeLines, FGPurge&Cleanup, FGFacility
EUHiBakeWest	The high-bake surface coating line is used to apply primers, base coats, and clear coats to various metal automobile parts, plastic automobile parts, and assembled vehicles. The line consists of a prime station followed by a flash-off area and a natural gas fired primer oven and two topcoat spray stations, each of which is followed by a flash-off area and a natural gas fired cure oven. Each spray station is equipped with dry filters to control particulate emissions. This coating line is one continuous tunnel with multiple spray stations.	01-19-2006	FG-HiBakeLines, FGPurge&Cleanup, FGFacility
EUPORBoothS	The Paint Operations Refinish (POR) parts coating line is located in the “Paint Operations” area (east wall) of the facility. Various primers, color coatings, and clear coatings are applied to a variety of plastic parts, metal parts or vehicle assemblies. The surface coatings dry in the same enclosed booth assisted by a natural gas fired heater. The spray booth is equipped with dry filters to control particulate emissions.	01-19-2006	FGPORLines, FGPurge&Cleanup, FGFacility
EUPORBoothM	The Paint Operations Refinish (POR) parts coating line is located in the “Paint Operations” area (east wall) of the facility. Various primers, color coatings, and clear coatings are applied to a variety of plastic parts, metal parts or vehicle assemblies. The surface coatings dry in the same enclosed booth assisted by a natural gas fired heater. The spray booth is equipped with dry filters to control particulate emissions.	01-19-2006	FG-PORLines, FGPurge&Cleanup, FGFacility

Emission Unit ID*	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUPORBoothN	The Paint Operations Refinish (POR) parts coating line is located in the "Paint Operations" area (east wall) of the facility. Various primers, color coatings, and clear coatings are applied to a variety of plastic parts, metal parts or vehicle assemblies. The surface coatings dry in the same enclosed booth assisted by a natural gas fired heater. The spray booth is equipped with dry filters to control particulate emissions.	01-19-2006	FGPORLines, FGPurge&Cleanup, FGFacility
EUMOBoothN	The Mechanical Operations (MO) assembly area refinish plastic parts coating line is located in the "assembly area" area of the facility and consists of a paint spray booth/oven. Various primers, color coatings, and clear coatings are applied to a variety of plastic or metal automobile parts. The coated parts dry in the enclosed booth/oven assisted by a natural gas fired heater. The booth is equipped with dry filters to control particulate emissions.	01-19-2006 / NA	FGMOLines, FGPurge&Cleanup, FGFacility
EUMOBoothM	The Mechanical Operations (MO) assembly area refinish plastic parts coating line is located in the "assembly area" area of the facility and consists of a paint spray booth/oven. Various primers, color coatings, and clear coatings are applied to a variety of plastic or metal automobile parts. The coated parts dry in the enclosed booth/oven assisted by a natural gas fired heater. The booth is equipped with dry filters to control particulate emissions.	08-16-2016	FGMOLines, FGPurge&Cleanup, FGFacility
EUMOBoothS	The Mechanical Operations (MO) assembly area refinish plastic parts coating line is located in the "assembly area" area of the facility and consists of a paint spray booth/oven. Various primers, color coatings, and clear coatings are applied to a variety of plastic or metal automobile parts. The coated parts dry in the enclosed booth/oven assisted by a natural gas fired heater. The booth is equipped with dry filters to control particulate emissions.	08-16-2016	FGMOLines, FGPurge&Cleanup, FGFacility
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.			

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
FGHiBakeLines	Two high-bake surface coating lines are used to apply primers, base coats, and clear coats to various metal automobile parts, plastic automobile parts, and assembled vehicles. Each line consists of a prime station followed by a flash-off area and a natural gas fired primer oven and two topcoat spray stations, each of which is followed by a flash-off area and a natural gas fired cure oven. Each spray station is equipped with dry filters to control particulate emissions. Each coating line is one continuous tunnel with multiple spray stations. All purge and cleanup operations are excluded from this flexible group.	EUHiBakeEast, EUHiBakeWest
FGPORLines	Three Paint Operations Refinish (POR) parts coating lines are located in the “Paint Operations” area (east wall) of the facility. Various primers, color coatings, and clear coatings are applied to a variety of plastic parts, metal parts or vehicle assemblies. The surface coatings dry in the same enclosed booth assisted by a natural gas fired heater. Each spray booth is equipped with dry filters to control particulate emissions. All purge and cleanup operations are excluded from this flexible group.	EUPORBoothS, EUPORBoothM, EUPORBoothN
FGMOLines	Three Mechanical Operations (MO) assembly area refinish plastic parts coating lines are located in the “assembly area” area of the facility and consists of a paint spray booth/oven. Various primers, color coatings, and clear coatings are applied to a variety of plastic or metal automobile parts. The coated parts dry in the enclosed booth/oven assisted by a natural gas fired heater. Each booth is equipped with dry filters to control particulate emissions. All purge and cleanup operations are excluded from this flexible group.	EUMOBoothN, EUMOBoothM, EUMOBoothS
FGPurge&Cleanup	All purge and cleanup operations, including spray gun cleaning.	EUHiBakeEast, EUHiBakeWest, EUPORBoothS, EUPORBoothM, EUPORBoothN, EUMOBoothN, EUMOBoothM, EUMOBoothS
FGFacility	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	NA

The following conditions apply to: FGHiBakeLines

DESCRIPTION: Two high-bake surface coating lines are used to apply primers, base coats, and clear coats to various metal automobile parts, plastic automobile parts, and assembled vehicles. Each line consists of a prime station followed by a flash-off area and a natural gas fired primer oven and two topcoat spray stations, each of which is followed by a flash-off area and a natural gas fired cure oven. Each coating line is one continuous tunnel with multiple spray stations. All purge and cleanup operations are excluded from this flexible group.

Emission Unit ID: EUHiBakeEast, EUHiBakeWest

POLLUTION CONTROL EQUIPMENT: Each spray station is equipped with dry filters to control particulate emissions.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (for metal and plastic parts combined)	2,000 lbs per month	Per month	FGHiBakeLines	SC VI.3	R 336.1702(d)
2. VOC (for metal and plastic parts combined)	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGHiBakeLines	SC VI.3	R 336.1702(d)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of primers, base coats, and clear coats (materials) used in FGHiBakeLines, in accordance with all applicable regulations. **(R 336.1224, R 336.1702(a))**

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

3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**

4. The permittee shall handle all VOC and/or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate each spray booth portion of FGHiBakeLines unless all respective exhaust filters are installed, maintained and operated in a manner satisfactory to the AQD District Supervisor. **(R 336.1224, R 336.1301, R 336.1910)**

2. The permittee shall equip and maintain each spray booth portion of FGHiBakeLines with HVLP applicator or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(d))**

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1225, R 336.1702)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**

3. The permittee shall keep the following information on a calendar month basis for FGHiBakeLines:
   a) Gallons (with water) of primers, base coats, and clear coats (materials) used.
   b) VOC content (with water) of each material as applied.
   c) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month.
   d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-HBPR	52	42	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-HBNE	48	42	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-HBNW	48	42	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-HBWest	18	38	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV-HBEast	18	38	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

The following conditions apply to: FGPORLines

DESCRIPTION: Three Paint Operations Refinish (POR) parts coating lines are located in the "Paint Operations" area (east wall) of the facility. Various primers, color coatings, and clear coatings are applied to a variety of plastic parts, metal parts or vehicle assemblies. The surface coatings dry in the same enclosed booth assisted by a natural gas fired heater. All purge and cleanup operations are excluded from this flexible group.

Emission Unit ID: EUPORBoothS, EUPORBoothM, EUPORBoothN

POLLUTION CONTROL EQUIPMENT: Each spray booth is equipped with dry filters to control particulate emissions

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (for metal and plastic parts combined)	2,000 lbs per month	Per month	FGPORLines	SC VI.3	R 336.1702(d)
2. VOC (for metal and plastic parts combined)	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGPORLines	SC VI.3	R 336.1702(d)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of primers, base coats, and clear coats (materials) used in FGPORLines, in accordance with all applicable regulations. **(R 336.1224, R 336.1702(a))**

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

3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**

4. The permittee shall handle all VOC and/or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate each spray booth portion of FGPORLines unless all respective exhaust filters are installed, maintained and operated in a manner satisfactory to the AQD District Supervisor. **(R 336.1224, R 336.1301, R 336.1910)**

2. The permittee shall equip and maintain each spray booth portion of FGPORLines with HVLP applicator or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(d))**

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1225, R 336.1702)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**

3. The permittee shall keep the following information on a calendar month basis for FGPORLines:
   a) Gallons (with water) of primers, base coats, and clear coats (materials) used.
   b) VOC content (with water) of each material as applied.
   c) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month.
   d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PORNorth	38	40.1	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-PORNorthEast	38	41.6	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-PORMiddle	44	40.6	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV-PORSouth	44	40.6	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

The following conditions apply to: FGMOLines

DESCRIPTION: Three Mechanical Operations (MO) assembly area refinish plastic parts coating lines are located in the "assembly area" area of the facility and consists of a paint spray booth/oven. Various primers, color coatings, and clear coatings are applied to a variety of plastic or metal automobile parts. The coated parts dry in the enclosed booth/oven assisted by a natural gas fired heater. All purge and cleanup operations are excluded from this flexible group.

Emission Unit ID: EUMOBoothN, EUMOBoothM, EUMOBoothS

POLLUTION CONTROL EQUIPMENT: Each spray station is equipped with dry filters to control particulate emissions.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (for metal and plastic parts combined)	2,000 lbs per month	Per month	FGMOLines	SC VI.3	R 336.1702(d)
2. VOC (for metal and plastic parts combined)	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGMOLines	SC VI.3	R 336.1702(d)
3. Ethylbenzene (CAS No. 100-41-4)	1.3 tpy	12-month rolling time period as determined at the end of each calendar month	FGMOLines	SC VI.4	R 336.1225(1)
4. Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7)	88.8 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGMOLines	SC VI.4	R 336.1225(1)
5. Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7)	88.8 lb/yr	12-month rolling time period as determined at the end of each calendar month	FGMOLines	SC VI.4	R 336.1225(1)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of primers, base coats, and clear coats (materials) used in FGMOLines, in accordance with all applicable regulations. **(R 336.1224, R 336.1702(a))**

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

3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**

4. The permittee shall handle all VOC and/or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate each spray booth portion of FGMOLines unless all respective exhaust filters are installed, maintained and operated in a manner satisfactory to the AQD District Supervisor. **(R 336.1224, R 336.1301, R 336.1910)**

2. The permittee shall equip and maintain each spray booth portion of FGMOLines with HVLP applicator or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(d))**

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1225, R 336.1702)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**

3. The permittee shall keep the following information on a calendar month basis for FGMOLines:
   a) Gallons (with water) of primers, base coats, and clear coats (materials) used.
   b) VOC content (with water) of each material as applied.
   c) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month.
   d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

4. The permittee shall keep the following information on a calendar month basis for FGMOLines:
   a) Gallons (with water) of each material containing that used:
      - ethylbenzene (CAS No. 100-41-4),
      - bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7), and
      - methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7).
   b) Where applicable, gallons (with water) of each material containing that reclaimed:
      - ethylbenzene (CAS No. 100-41-4),
      - bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7), and
      - methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7).
   c) The content (with water) in pounds per gallon of each material used that contains:
      - ethylbenzene (CAS No. 100-41-4),
      - bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7), and
      - methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7).
   d) Mass emission calculations determining the monthly emission rate in pounds and tons per calendar month of:
      - ethylbenzene (CAS No. 100-41-4),
      - bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7), and
      - methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7).
   e) Mass emission calculations determining the annual emission rate in pounds and tons per 12-month rolling time period as determined at the end of each calendar month of:
      - Ethylbenzene (CAS No. 100-41-4),
      - bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS No. 41556-26-7), and
      - methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS No. 82919-37-7).

   The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.[1] **(R 336.1225(1))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-MONorth	45	30.7	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-MOMiddle	45	30.7	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV-MOSouth	45	30.7	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

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

The following conditions apply to: FGPurge&Cleanup

DESCRIPTION: All purge and cleanup operations, including spray gun cleaning.

Emission Unit ID: EUHiBakeEast, EUHiBakeWest, EUPORBoothS, EUPORBoothM, EUPORBoothN, EUMOBoothN, EUMOBoothM, EUMOBoothS

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	7.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGPurge&Cleanup	SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of purge and cleanup solvents (materials) used in FGPurge&Cleanup, in accordance with all applicable regulations. **(R 336.1224, R 336.1702(a))**

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

3. The permittee shall handle all VOC and / or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1225, R 336.1702)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**

3. The permittee shall keep the following information on a calendar month basis for FGPurge&Cleanup:
   a) Gallons (with water) of VOC containing purge and cleanup (materials) used and reclaimed.
   b) VOC content of each material as applied.
   c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
   d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

The following conditions apply Source-Wide to: FGFacility

DESCRIPTION: All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 9.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGFacility	SC VI.2	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFacility	SC VI.2	R 336.1205(3)
3. VOC* (for metal and plastic parts combined)	Less than 30.0 tpy	12-month rolling time period as determined at the end of each calendar month	All metal parts coating lines operating per the requirements of R 336.1621(10)(b) and All plastic parts coating lines operating per the requirements of R 336.1632(15)(i) in FGFacility	SC VI.3	R 336.1702(d)
* All purge and cleanup operations are excluded.					

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

1. The permittee shall determine the HAP content of any primers, base coats, and clear coats (coatings); purge and cleanup solvents; *etc.* (materials) as received and as applied, using manufacturer's formulation data. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311. **(R 336.1205(3))**

2. The permittee shall determine the VOC content, water content and density of any coating, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.702(d))**

2. The permittee shall keep the following information on a calendar month basis for FGFacility:
   a) Gallons or pounds of each HAP containing primers, base coats, clear coats, purge and cleanup solvents (materials) used.
   b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
   c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
   d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
   e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month.

   The permittee shall keep the records using mass balance, or an alternative method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**

3. The permittee shall keep the following information on a calendar month basis for all metal parts coating lines operating per the requirements of R 336.1621(10)(b) and all plastic parts coating lines operating per the requirements of R 336.1632(15)(i) in FGFacility:
   a) Gallons or pounds of each VOC containing primers, base coats, and clear coats (materials) used. Note: All purge and cleanup operations are excluded.
   b) VOC content, in pounds per gallon or pounds per pound, of each VOC containing coating used.
   c) VOC emission calculations determining the monthly emission rate in tons per calendar month.
   d) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month from the coating of metal and plastic parts combined.

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

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA