

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

JANUARY 29, 2021

**PERMIT TO INSTALL**

368-06D

**ISSUED TO  
MOLD MASTERS COMPANY**

**LOCATED AT  
1455 IMLAY CITY ROAD  
LAPEER, MICHIGAN 48446**

**IN THE COUNTY OF  
LAPEER**

**STATE REGISTRATION NUMBER  
A2809**

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: <b>December 4, 2020</b>	
DATE PERMIT TO INSTALL APPROVED: <b>January 29, 2021</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**PERMIT TO INSTALL**

**Table of Contents**

COMMON ACRONYMS ..... 2

POLLUTANT / MEASUREMENT ABBREVIATIONS..... 3

GENERAL CONDITIONS ..... 4

EMISSION UNIT SPECIAL CONDITIONS..... 6

    EMISSION UNIT SUMMARY TABLE ..... 6

    EURobot ..... 8

    EUFlockBooth5 ..... 11

FLEXIBLE GROUP SPECIAL CONDITIONS..... 15

    FLEXIBLE GROUP SUMMARY TABLE ..... 15

    FGManual ..... 16

    FGFlock ..... 19

    FGPurgeSolvents..... 22

    FGTACs..... 24

    FGRule632 ..... 26

FGFACILITY CONDITIONS..... 28

## 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 <sub>2</sub> e	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 <sub>2</sub> S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO <sub>x</sub>	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 <sub>2</sub>	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

## GENERAL CONDITIONS

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

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

**EMISSION UNIT SPECIAL CONDITIONS**

**EMISSION UNIT SUMMARY TABLE**

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

<b>Emission Unit ID</b>	<b>Emission Unit Description (Including Process Equipment &amp; Control Device(s))</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EURobot	Three automatic spray booths and one natural gas-fired curing oven using solvent and water-based coatings to paint plastic automotive interior parts. Overspray exhaust filters for each of the three booths.	03-08-2007 / 05-23-2013	FGPurgeSolvents, FGTACs
EUManual1	Manual spray booth No. 1 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual2	Manual spray booth No. 2 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual3	Manual spray booth No. 3 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual4	Manual spray booth No. 4 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual5	Manual spray booth No. 5 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual6	Manual spray booth No. 6 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUManual7	Manual spray booth No. 7 using solvent and water-based coatings to paint plastic automotive interior parts with a common infrared curing oven. Overspray exhaust filters for the booth.	03-08-2007 / 05-23-2013	FGManual, FGPurgeSolvents, FGTACs
EUFlockBooth1	Flock booth No. 1 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632
EUFlockBooth2	Flock booth No. 2 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632

<b>Emission Unit ID</b>	<b>Emission Unit Description (Including Process Equipment &amp; Control Device(s))</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EUFlockBooth3	Flock booth No. 3 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632
EUFlockBooth4	Flock booth No. 4 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632
EUFlockBooth5	Floc booth No. 5 using prime coatings to paint plastic automotive interior parts. Emission Unit does NOT include the use of purge and clean-up solvents (The purge and clean-up solvents are not being accounted for anywhere except for the opt-out in FG-FACILITY). The prime booth is controlled by a Regenerative Thermal Oxidizer (RTO).	03-08-2007 / 05-23-2013 / PTI Issuance Date	NA
EUFlockBooth6	Flock booth No. 6 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632
EUFlockBooth7	Flock booth No. 7 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632
EUFlockBooth8	Flock booth No. 8 using adhesive/glue and flocking material to paint plastic automotive interior parts with a common curing oven.	03-08-2007 / 05-23-2013 / PTI Issuance Date	FGFlock, FGRule632

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.

**EURobot  
EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Three automatic spray booths and one natural gas-fired curing oven using solvent and water-based coatings to paint plastic automotive interior parts.

**Flexible Group ID:** FGPurgeSolvents, FGTACs

**POLLUTION CONTROL EQUIPMENT**

Overspray exhaust filters for each of the three booths to control particulate matter.

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. VOC	65.0 tpy	12-month rolling time period as determined at the end of each calendar month	EURobot	SC VI.1, SC VI.2, SC VI.3	R 336.1205(3), R 336.1702(d)
2. Acetone (CAS No. 67-64-1)	10.2 tpy	12-month rolling time period as determined at the end of each calendar month	EURobot	SC VI.1, SC VI.2, SC VI.4	R 336.1224
3. VOC Content of Coatings	5.0 lb/gal (minus water) <sup>a</sup> as applied	Daily volume-weighted average.	EURobot	SC VI.1, SC VI.2, SC VI.3	R 336.1702(d)

<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

**II. MATERIAL LIMIT(S)**

<b>Material</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Testing / Monitoring Method</b>	<b>Underlying Applicable Requirements</b>
1. VOCs Content of Adhesion Promoter	4.6 lb/gal (minus water) <sup>a</sup> as applied	Instantaneous	EURobot	SC V.1, SC VI.2	R 336.1702(a)

<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

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

1. The permittee shall recover and reclaim, recycle, or dispose of all paints, coatings, reducers, solvents, thinners, glue/adhesives, etc. (material), in accordance with all applicable regulations. **(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 336.1702(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, including coatings, reducers, solvents, and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**
5. The permittee shall not operate the bake oven portion of EURobot at a temperature in excess of 194°F. **(R 336.1702(d))**

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

1. The permittee shall not operate EURobot unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain EURobot with HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**
3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the bake oven temperature on a continuous basis. **(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 336.1205, R 336.1702(d), 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 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3), 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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar day basis for EURobot:
  - a) Gallons (with water) of each VOC containing material used.
  - b) VOC content (minus water and with water) of each material as applied.
  - c) VOC emission calculations determining the volume-weighted average VOC content of the coatings as applied on a calendar day basis.
  - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - e) 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 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, R 336.1702)**

4. The permittee shall keep the following information on a calendar month basis for the use of acetone containing coatings for EURobot:
- Gallons of each acetone containing coating used.
  - Acetone content of each coating used.
  - Acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
  - Acetone 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 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 336.1224)**

5. The permittee shall monitor and record the bake oven temperature on a continuous basis. The permittee shall keep, in a satisfactory manner, continuous records of the bake temperature for EURobot. **(R 336.1702(d))**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVRobot1 (Booth 1)	36	32	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVRobot2 (Booth 2)	36	32	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVRobot3 (Booth 3)	36	32	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVRobot4 (Oven)	18	32	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

**EUFlockBooth5  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Floc booth No. 5 using prime coatings to paint plastic automotive interior parts. Emission Unit does NOT include the use of purge and clean-up solvents (the purge and clean-up solvents are not being accounted for anywhere except for the opt-out in FG-FACILITY). The prime booth is controlled by a Regenerative Thermal Oxidizer (RTO).

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

A Permanent Total Enclosure (PTE) and Regenerative Thermal Oxidizer (RTO) to control VOC. Overspray exhaust filters to control particulate matter

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. VOC	3.6 tpy	12-month rolling time period as determined at the end of each calendar month	EUFlockBooth5	SC VI.1 - SC VI.4. SC V.2 SC V.3	R 336.1205(1)(a)(ii), R 336.1702(a)

**II. MATERIAL LIMIT(S)**

NA

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

1. The permittee shall capture all waste prime coatings (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 336.1225, R 336.1702(a))**
2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370(1))**
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 336.1205(3), R 336.1225, R 336.1702(a))**
4. Within 180 days from commencement of trial operation of the RTO associated with EUFlockBooth5, the permittee shall submit, implement, and maintain a malfunction abatement plan (MAP) as described in Rule 911(2). 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.

- d) A description of the procedures to capture, handle, and dispose of all materials to minimize the generation of fugitive emissions per SC numbers III.1 and III.3.

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 30 days after such an event occurs. The permittee shall also amend the MAP within 30 days if new equipment is installed or upon request from the AQD 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(a), R 336.1910, R 336.1911)**

5. The permittee shall either maintain a minimum of 0.007 inches of water pressure differential between each PTE and the adjacent area on a continuous basis or maintain a facial velocity of 200 feet per minute through each natural draft opening of the PTE on a continuous basis. **(R 336.1205, R 336.1702(a), R 336.1910)**

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

1. The permittee shall not operate EUFlockBooth5 unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain EUFlockBooth5 with HVLP or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**
3. The permittee shall not operate EUFlockBooth5 unless the Regenerative Thermal Oxidizer (RTO) and the associated PTE are installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the RTO includes a minimum VOC destruction efficiency of 95 percent (by weight), maintaining a minimum temperature of 1,525°F or the minimum combustion zone temperature from the most recent acceptable stack test, and a minimum retention time of 0.5 seconds. Satisfactory operation of the PTE includes a minimum capture efficiency from PTE portion associated with EUFlockBooth5 of 100 percent (by weight). **(R 336.1205(1)(a)(ii), R 336.1225, R 336.1702(a), R 336.1910).**
4. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a temperature monitoring device in the combustion chamber of the RTO to monitor and record the temperature, on a continuous basis, during operation of EUFlockBooth5. **(R 336.1205(1)(a)(ii), R 336.1225, R 336.1702(a))**
5. The permittee shall not operate EUFlockBooth5 unless the associated PTE is installed, maintained, and operated in a satisfactory manner. Satisfactory operation requires the following:
  - a) The direction of the air flow at all times must be into the enclosure; and either
  - b) The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or
  - c) The pressure drop across the enclosure must be at least 0.007 inch H<sub>2</sub>O **(R 336.1702(a), R 336.1910)**
6. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner, a device to measure the average facial velocity of air or a device to monitor the pressure differential between the PTE of EUFlockBooth5 and the adjacent area on a continuous basis during operation of EUFlockBooth5. **(R 336.1702(a), R 336.1910)**

#### **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 coatings, 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 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

2. Within 180 days from commencement of trial operation of the RTO associated with EUFlockBooth5, the permittee shall verify the VOC destruction efficiency of the RTO, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 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 30 days following the last date of the test. **(R 336.1702(a), R 336.1910, R 336.2001, R 336.2003, R 336.2004)**
3. Within 180 days from commencement of trial operation of EUFlockBooth5, the permittee shall verify that the associated enclosure meets the definition of PTE or verify capture efficiency of the enclosure, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 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 30 days following the last date of the test. **(R 336.1702(a), R 336.1910, R 336.2001, R 336.2003, R 336.2004)**

#### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702)**
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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for EUFlockBooth5:
  - a) Gallons (with water) of each material used.
  - b) VOC content (with water) 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))**
4. The permittee shall monitor and record, in a satisfactory manner, the temperature in the combustion chamber of the RTO, on a continuous basis, during operation of EUFlockBooth5. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a)(ii), R 336.1225, R 336.1702)**

5. The permittee shall monitor and record, in a satisfactory manner, the air flow or pressure differential between the PTE portion of EUFlockBooth5 and the adjacent area, on a continuous basis, to verify that air is entering the PTE. Continuous air flow or pressure differential data recordings shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a)(ii), R 336.1225, R 336.1702)**

**VII. REPORTING**

1. Within 30 days after completion of the installation, construction, reconstruction, relocation or modification of the PTE and RTO associated with EUFlockBooth5 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 the commencement of trial operation of the PTE and RTO associated with EUFlockBooth5. **(R 336.1201(7)(a))**

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

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SV-RTO (EUFlockBooth5)	24	27	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**FLEXIBLE GROUP SPECIAL CONDITIONS**

**FLEXIBLE GROUP SUMMARY TABLE**

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

<b>Flexible Group ID</b>	<b>Flexible Group Description</b>	<b>Associated Emission Unit IDs</b>
FGManual	Seven manual spray booths equipped with overspray exhaust filters and an infrared curing oven for application of solvent and water-based coatings to plastic automotive interior parts.	EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7
FGFlock	Seven small spray booths equipped with exhaust filters and a curing oven. This area applies adhesives to plastic automotive interior parts prior to application of flock material. All booths are exhausted through one central system that exhausts to a particulate collection area prior to being exhausted to the outside air via single common stack. Flexible group includes the use of purge and clean-up solvents.	EUFlockBooth1, EUFlockBooth2, EUFlockBooth3, EUFlockBooth4, EUFlockBooth6, EUFlockBooth7, EUFlockBooth8
FGPurgeSolvents	The use of purge/clean-up solvents associated with EURobot and FGManual.	EURobot, EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7
FGTACs	The use of TACs associated with EURobot and FGManual.	EURobot, EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7
FGRule632	All plastic parts coating lines source-wide, including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(i).	EUFlockBooth1, EUFlockBooth2, EUFlockBooth3, EUFlockBooth4, EUFlockBooth6, EUFlockBooth7, EUFlockBooth8

**FGManual**  
**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Seven manual spray booths equipped with overspray exhaust filters and an infrared curing oven for application of solvent and water-based coatings to plastic automotive interior parts.

**Emission Unit:** EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7

**POLLUTION CONTROL EQUIPMENT**

Overspray exhaust filters for each booth to control particulate matter

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. VOC	9.1 tpy	12-month rolling time period as determined at the end of each calendar month	FGManual	SC VI.1, SC VI.2, SC VI.3	R 336.1205(3), R 336.1702(d)
2. VOC Content of Coatings	5.0 lb/gal (minus water) <sup>a</sup> as applied	Daily volume-weighted average.	FGManual	SC VI.1, SC VI.2, SC VI.3	R 336.1702(d)

<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

**II. MATERIAL LIMIT(S)**

<b>Material</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. VOCs Content of Adhesion Promoter	4.6 lb/gal (minus water) <sup>a</sup> as applied	Instantaneous	FGManual	SC V.1, SC VI.2	R 336.1702(a)

<sup>a</sup> The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

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

1. The permittee shall recover and reclaim, recycle, or dispose of all paints, coatings, reducers, solvents, thinners, glue/adhesives, etc. (material), in accordance with all applicable regulations. **(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 336.1702(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, including coatings, reducers, solvents, and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**
5. The permittee shall not operate the bake oven portion of FGManual at a temperature in excess of 194°F. **(R 336.1702(d))**

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

1. The permittee shall not operate FGManual unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain FGManual with HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**
3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the bake oven temperature on a continuous basis. **(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 336.1205, R 336.1702(d), 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 336.1205(3), 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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar day basis for FGManual:
  - a) Gallons (with water) of each VOC containing material used.
  - b) VOC content (minus water and with water) of each material as applied.
  - c) VOC emission calculations determining the volume-weighted average VOC content of the coatings as applied on a calendar day basis.
  - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
  - e) 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 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, R 336.1702)**

4. The permittee shall monitor and record the bake oven temperature on a continuous basis. The permittee shall keep, in a satisfactory manner, continuous records of the bake temperature for FGManual. **(R 336.1702(d))**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVBooth1	24	34	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVBooth2	24	32	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVBooth3	24	28	R 336.1225, 40 CFR 52.21(c) & (d)
4. SVBooth4	24	27	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVBooth5	24	34	R 336.1225, 40 CFR 52.21(c) & (d)
6. SVBooth6	24	30	R 336.1225, 40 CFR 52.21(c) & (d)
7. SVBooth7	24	34	R 336.1225, 40 CFR 52.21(c) & (d)
8. SVCuringOven1	8	20	R 336.1225, 40 CFR 52.21(c) & (d)
9. SVCuringOven2	8	22	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

**FGFlock**  
**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Seven small spray booths equipped with exhaust filters and a curing oven. This area applies adhesives to plastic automotive interior parts prior to application of flock material. All booths are exhausted through one central system that exhausts to a particulate collection area prior to being exhausted to the outside air via single common stack. Flexible group includes the use of purge and clean-up solvents.

**Emission Unit:** EUFlockBooth1, EUFlockBooth2, EUFlockBooth3, EUFlockBooth4, EUFlockBooth6, EUFlockBooth7, EUFlockBooth8

**POLLUTION CONTROL EQUIPMENT**

Overspray exhaust filters for each booth to control particulate matter.

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. VOC	2,000 pounds per month	Each calendar month	Each EU in FGFlock	SC VI.1, SC VI.2, SC VI.3	R 336.1702(d)
2. VOC	2.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFlock	SC VI.1, SC VI.2, SC VI.3	R 336.1702(d)

**II. MATERIAL LIMIT(S)**

NA

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

1. The permittee shall recover and reclaim, recycle, or dispose of all paints, coatings, reducers, solvents, thinners, glue/adhesives, etc. (material), in accordance with all applicable regulations. **(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 336.1702(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, including coatings, reducers, solvents, and thinners, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1702(a))**

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

1. The permittee shall not operate FGFlock unless all respective exhaust filters are installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**

2. The permittee shall equip and maintain FGflock with HVLP applicators or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

#### **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 336.1205, R 336.1702(d), 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 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a calendar month basis for FGflock and for each EU in FGflock separately:
  - a) Gallons (with water) of each VOC containing material used.
  - b) VOC content (with water) of each material as applied.
  - c) VOC mass emission calculations determining the monthly emission rate in pounds and tons per calendar month.
  - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative 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 RESTRICTION(S)**

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

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter / Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVflock	18	8	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

<b>FGPurgeSolvents FLEXIBLE GROUP CONDITIONS</b>
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**DESCRIPTION**

The use of purge/clean-up solvents associated with EURobot and FGManual.

**Emission Unit:** EURobot, EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. Acetone	3.3 tpy <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FGPurgeSolvents	SC VI.1, SC VI.2, SC VI.3	R 336.1224

**II. MATERIAL LIMIT(S)**

NA

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

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 95 percent by weight of all purge solvents used for FGPurgeSolvents.<sup>1</sup> **(R 336.1224)**
2. The permittee shall capture all waste solvents and shall store them in closed containers. The permittee shall dispose of all waste in an acceptable manner in compliance with all applicable state rules and federal regulations.<sup>1</sup> **(R 336.1224)**

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

NA

**V. TESTING/SAMPLING**

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

NA

**VI. MONITORING/RECORDKEEPING**

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

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

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**
  
3. The permittee shall keep the following information on a calendar month basis for FGPurgeSolvents:
  - a) Gallons (with water) of each acetone containing material used and reclaimed.
  - b) Acetone content of each solvent used.
  - c) Acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d) Acetone 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 format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224)**

**VII. REPORTING**

NA

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

NA

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

**FGTACs  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

The use of TACs associated with EURobot and FGManual.

**Emission Unit:** EURobot, EUManual1, EUManual2, EUManual3, EUManual4, EUManual5, EUManual6, EUManual7

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Monitoring / Testing Method</b>	<b>Underlying Applicable Requirements</b>
1. Para-Chlorobenzotrifluoride (CAS No. 98-56-6)	4.9 tpy <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FGTACs	SC VI.1, SC VI.2, SC VI.3	R 336.1224
2. Tert-butyl Acetate (CAS No. 540-88-5)	17.6 tpy <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FGTACs	SC VI.1, SC VI.2, SC VI.4	R 336.1224

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

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224, R 336.1225)**
  
3. The permittee shall keep the following information on a calendar month basis for the use of Para-Chlorobenzotrifluoride (CAS No. 98-56-6) associated with FGTACs:
  - a) Gallons of each Para-Chlorobenzotrifluoride (CAS No. 98-56-6) containing material used.
  - b) Para-Chlorobenzotrifluoride (CAS No. 98-56-6) content of each material used.
  - c) Para-Chlorobenzotrifluoride (CAS No. 98-56-6) mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d) Para-Chlorobenzotrifluoride (CAS No. 98-56-6) 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 format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224)**
  
4. The permittee shall keep the following information on a calendar month basis for the use of Tert-butyl Acetate (CAS No. 540-88-5) associated with FGTACs:
  - a) Gallons of each Tert-butyl Acetate (CAS No. 540-88-5) containing material used.
  - b) Tert-butyl Acetate (CAS No. 540-88-5) content of each material used.
  - c) Tert-butyl Acetate (CAS No. 540-88-5) mass emission calculations determining the monthly emission rate in tons per calendar month.
  - d) Tert-butyl Acetate (CAS No. 540-88-5) 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 format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1224)**

**VII. REPORTING**

NA

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

NA

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

**FGRule632**  
**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

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

**Emission Units:** EUFlockBooth1, EUFlockBooth2, EUFlockBooth3, EUFlockBooth4, EUFlockBooth6, EUFlockBooth7, EUFlockBooth8

**POLLUTION CONTROL EQUIPMENT**

Exhaust filters to control particulate matter

**I. EMISSION LIMIT(S)**

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

**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))**

- The permittee shall determine the VOC content, water content, and density of any coating used to coat plastic parts, 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(d))**

**VI. MONITORING/RECORDKEEPING**

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

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

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and reducer including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1702(d))**
3. The permittee shall keep the following information on a calendar month basis for all plastic parts coating lines source-wide, including plastic parts coating lines covered by other permits, which are exempted by R 336.1632(15)(i):
  - a) Gallons or pounds of each VOC containing material used.
  - b) VOC content, in pounds per gallon or pounds per pound as applied, of each VOC containing material used.
  - c) VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - d) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative 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 RESTRICTION(S)**

NA

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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

### FG FACILITY CONDITIONS

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

#### POLLUTION CONTROL EQUIPMENT

For permitted EU, as listed above in each EU and FG.

#### I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing 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	FG Facility	SC VI.1, 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	FG Facility	SC VI.1, SC VI.2	R 336.1205(3)
3. VOC	Less than 90.0 tpy	12-month rolling time period as determined at the end of each calendar month	FG Facility	SC VI.1, SC VI.3	R 336.1205(3)
4. Napthalene (CAS No. 91-20-3)	876.0 pounds per year <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FG Facility	SC VI.1, SC VI.4	R 336.1225(2)
5. Cumene (CAS No. 98-82-8)	1,314.0 pounds per year <sup>1</sup>	12-month rolling time period as determined at the end of each calendar month	FG Facility	SC VI.1, SC VI.4	R 336.1225(2)

#### II. MATERIAL LIMIT(S)

NA

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

NA

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

NA

#### V. TESTING/SAMPLING

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

- The permittee shall determine the HAP content of any paint, coating, reducer, solvent, thinners, glue/adhesive, etc. (material) 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 336.1205(3))**

## **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 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3))**
2. The permittee shall keep the following information on a calendar month basis for FG Facility:
  - a) Gallons or pounds of each HAP containing material 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 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 FG Facility:
  - a) Gallons or pounds of each VOC containing material used.
  - b) Where applicable, gallons or pounds of each VOC containing material reclaimed.
  - c) VOC content, in pounds per gallon or pounds per pound, of each VOC containing material used.
  - d) VOC emission calculations determining the monthly emission rate in tons per calendar month.
  - e) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative 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))**

4. The permittee shall keep following information on a calendar month basis for FG Facility:
  - a) Gallons (with water) of Napthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) containing material used.
  - b) Where applicable, gallons (with water) of each Napthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) containing material reclaimed.
  - c) The Napthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) content in pounds per gallon of each material used.
  - d) Napthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) separate mass emission calculations determining the monthly emission rate in pounds per calendar month.
  - e) Napthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) separate mass emission calculations determining the annual emission rate in pounds 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 format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.<sup>1</sup> **(R 336.1225(2))**

## **VII. REPORTING**

NA

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

NA

**IX. OTHER REQUIREMENT(S)**

NA

**Footnotes:**

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