

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

December 21, 2023

**PERMIT TO INSTALL**  
383-00K

**ISSUED TO**  
Primat Curtis

**LOCATED AT**  
6645 Sims Drive  
Sterling Heights, Michigan 48313

**IN THE COUNTY OF**  
Macomb

**STATE REGISTRATION NUMBER**  
B6455

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>September 11, 2023</b>	
DATE PERMIT TO INSTALL APPROVED: <b>December 21, 2023</b>	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

**PERMIT TO INSTALL**

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## COMMON ACRONYMS

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

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

### POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO <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.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUDIPSPIN	Seven miscellaneous metal parts dipspin coating lines (Lines 21-26, and 28) and seven associated cure ovens controlled by a common regenerative thermal oxidizer (RTO1).	Installed 6/1978 Modified 5/2001	NA
EUDIPSPIN27	A miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven all controlled by a regenerative thermal oxidizer (RTO2) shared with Dipspin Line No. 29.	Installed 12/2012	FGDIPSPIN
EUDIPSPIN29	A miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven all controlled by a regenerative thermal oxidizer (RTO2) shared with Dipspin Line No. 27.	Modified 12/2012	FGDIPSPIN
EUECOAT	One electrodeposition coating line No. 42 for miscellaneous metal parts consisting of an electrodeposition tank, a five-stage water rinsing process, and a cure oven.	Installed 6/1988	NA
EUDIPSPIN18	A miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven.	Installed 4/2018 Modified 12/2021	FGDIPSPIN2 FGRULE621
EUDIPSPIN19	A miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven.	Installed 4/2018 Modified 12/2021	FGDIPSPIN2 FGRULE621
EUDIPSPIN20	A miscellaneous metal parts dipspin coating line.	Installed 5/2016	FGDIPSPIN2 FGRULE621
EUCLEANBLAST	Cleaning and sandblasting of miscellaneous metal parts consisting of high-speed de-icers, alkaline wash chambers, freshwater rinse chambers, and electric drying chambers. After cleaning, the parts are conveyed to seven sandblasters, each controlled by a dust collector with HEPA filtration.	TBD	NA

<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>
EUDIPSPIN30	A miscellaneous metal parts dipspin coating line consisting of an enclosed base coat dip-spin applicator, an enclosed top coat dip-spin applicator, a flash-off area, and a 3.3 MMBtu/hr natural gas-fired curing oven all controlled by a regenerative thermal oxidizer (RTO1).	TBD	NA

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

**EUDIPSPIN  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Seven miscellaneous metal parts dipspin coating lines (Lines 21-26, and 28) and seven associated cure ovens controlled by a common regenerative thermal oxidizer.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

Regenerative Thermal Oxidizer (RTO1)

**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. VOCs	51.5 tpy	13 - four-week rolling time periods, as determined at the end of each four-week period	EUDIPSPIN	SC VI.3, SC VI.4	R 336.1205(1)(a), R 336.1702(a)
2. Dibasic ester (dimethyl adipate [CAS No. 627-93-0], dimethyl glutarate [CAS No. 1119-40-0] and dimethyl succinate [CAS No. 106-65-0] combined)	3.7 tpy	13 - four-week rolling time periods, as determined at the end of each four-week period	EUDIPSPIN	SC VI.3, SC VI.4	R 336.1225, R 336.1901

**II. MATERIAL LIMIT(S)**

NA

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

1. The collection and disposal of waste coatings, reducers, additives, and solvents shall be performed in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1225, R 336.1702(a))**
2. The permittee shall implement and maintain a malfunction abatement plan (MAP) for EUDIPSPIN subject to review and approval by the AQD District Supervisor. The MAP shall include at a minimum, the optimum operating parameters for the add-on air pollution control device, maintenance, and inspection schedules, monitoring equipment, and corrective action plans for equipment failure. **(R 336.1911)**

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

1. The permittee shall not operate EUDIPSPIN unless the regenerative thermal oxidizer is installed and operating properly. Proper operation of the regenerative thermal oxidizer includes a minimum VOC control efficiency [combined capture (88 percent) and destruction efficiency (95 percent)] of 83.6 percent, by weight, and maintaining a minimum temperature of 1400°F and a minimum retention time of 0.5 seconds. **(R 336.1205(1)(a), R 336.1225, 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, and density of any coating as applied and as received, using federal Reference Test Method 24. Upon prior 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 336.1225, R 336.1702(a), 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 end of the 4-week period, for the previous 4-week period, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall monitor, in a satisfactory manner, and record the temperature in the regenerative thermal oxidizer portion of EUDIPSPIN near the combustion chamber outlet on a continuous basis in a manner and with instrumentation acceptable to the AQD District Supervisor. All temperature data shall be kept on file and made available to the Department upon request. **(R 336.1225, R 336.1702(a), R 336.1910)**
3. The permittee shall maintain a current listing from the manufacturer, of the chemical composition of each coating, reducer, additive, cleanup solvent, etc., including the weight percent of each component that is used in EUDIPSPIN. 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(a))**
4. The permittee shall keep the following information on a four-week basis for EUDIPSPIN:
  - a) Hours of operation for each dip/spin line.
  - b) For each coating, reducer, additive, and cleanup/purge solvent used and/or reclaimed:
    - i. All coating identification.
    - ii. The amount used in gallons for each coating, reducer, additive, and cleanup/purge solvent.
    - iii. The VOC content in pounds per gallon (with water), as received and as applied.
    - iv. A separate listing of any coatings applied that contain dibasic esters, the gallons of each applied, and the dibasic ester (dimethyl adipate [CAS No. 627-93-0], dimethyl glutarate [CAS No. 1119-40-0] and dimethyl succinate [CAS No. 106-65-0] combined) content of each coating.
  - c) Dibasic ester (dimethyl adipate [CAS No. 627-93-0], dimethyl glutarate [CAS No. 1119-40-0] and dimethyl succinate [CAS No. 106-65-0] combined) emission rate in tons per four-week period, and 13 - four-week rolling time periods emission rate determined at the end of each four-week period in tons per year for EUDIPSPIN.
  - d) VOC emission rate in tons per four-week period, and 13 - four-week rolling time periods emission rate determined at the end of each four-week period in tons per year for EUDIPSPIN.

The permittee shall keep the records using mass balance, or a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R336.1205(1)(a), R 336.1225, R 336.1702(a))**

## **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. SV0001 (RTO1)	60	40	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).

**EUECOAT  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

One electrodeposition coating line No. 42 for miscellaneous metal parts consisting of an electrodeposition tank, a five-stage water rinsing process, and a cure oven.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOCs*	800 lb / four-weeks	Four-week period	EUECOAT	SC VI.2, SC VI.3	R 336.1205, R 336.1702(a)
2. VOCs*	4.7 tpy	13 - four-week rolling time periods, as determined at the end of each four-week period	EUECOAT	SC VI.2, SC VI.3	R 336.1205, R 336.1702(a)

\* This emission rate is based upon a maximum of 3.3 % of the VOCs in the products used being emitted to the ambient air.

**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 end of the 4-week period, for the previous 4-week period, 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 coating, reducer, additive, etc., including the weight percent of each component that is used in EUECOAT. 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(a))**
3. The permittee shall keep the following information on a four-week basis for EUECOAT:
  - a) Weekly for each coating, reducer, or additive used and/or reclaimed:
    - i. All coating identification.
    - ii. The amount used in gallons for each coating, reducer, or additive.
    - iii. The VOC content in pounds per gallon (with water) as applied/used.
  - b) VOC emission rate in tons per four-week period, and 13 - four-week rolling time period emission rate determined at the end of each four-week period in tons per year.

The permittee shall keep the records using mass balance, or a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702(a))**

**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. SV0002 (Electrodeposition tank)	12	40	R 336.1225, 40 CFR 52.21(c) &(d)
2. SV0005 (Line 42 oven)	16	40	R 336.1225, 40 CFR 52.21(c) &(d)
3. SV0006 (Line 42 oven)	16	40	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).

**EUCLEANBLAST  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Cleaning and sandblasting of miscellaneous metal parts consisting of high-speed de-oilers, alkaline wash chambers, freshwater rinse chambers, and electric drying chambers. After cleaning, the parts are conveyed to seven sandblasters, each controlled by a dust collector with HEPA filtration.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

Each sandblaster is controlled by a 1,200-cfm dust collector, exhausted through a HEPA filter.

**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. PM	0.02 lbs per 1000 lbs of gas <sup>a</sup>	Hourly	EUCLEANBLAST	SC VI.2	R 336.1205 R 336.1331
2. PM2.5	0.02 lbs per 1000 lbs of gas <sup>a</sup>	Hourly	EUCLEANBLAST	SC VI.2	R 336.1205 R 336.1331
3. PM10	0.02 lbs per 1000 lbs of gas <sup>a</sup>	Hourly	EUCLEANBLAST	SC VI.2	R 336.1205 R 336.1331

<sup>a</sup> Calculated on a wet gas basis

4. Visible emissions from EUCLEANBLAST shall not exceed a six-minute average of 10 percent opacity. **(R 336.1205, R 336.1301, R 336.1331, 40 CFR 52.21 (c) & (d))**

**II. MATERIAL LIMIT(S)**

NA

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

1. The permittee shall not operate CLEANBLAST unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the dust collectors, has been submitted within 90 days of commencement of trial operation, and is implemented and maintained. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1331, R 336.1910, R 336.1911)**

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

1. The permittee shall not operate the sandblasters in EUCLEANBLAST unless each sandblaster's dust collector with HEPA filter is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910)**
2. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor the pressure drop across each sandblaster's dust collector on a continuous basis. **(R 336.1301, R 336.1331, R 336.1910)**

**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 336.1301, R 336.1331, R 336.1910)**
2. The permittee shall monitor, in a satisfactory manner, the pressure drop across each sandblaster's dust collector on a continuous basis and record the pressure drop at least once per day. **(R 336.1301, R 336.1331, R 336.1910)**

**VII. REPORTING**

NA

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

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

<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. SVDC1	24 x 24	45	40 CFR 52.21(c) &(d)
2. SVDC2	24 x 24	45	40 CFR 52.21(c) &(d)
3. SVDC3	24 x 24	45	40 CFR 52.21(c) &(d)
4. SVDC4	24 x 24	45	40 CFR 52.21(c) &(d)
5. SVDC5	24 x 24	45	40 CFR 52.21(c) &(d)
6. SVDC6	24 x 24	45	40 CFR 52.21(c) &(d)
7. SVDC7	24 x 24	45	40 CFR 52.21(c) &(d)

**IX. OTHER REQUIREMENT(S)**

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

**Footnotes:**

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

**EUDIPSPIN30  
 EMISSION UNIT CONDITIONS**

**DESCRIPTION**

A miscellaneous metal parts dipspin coating line consisting of an enclosed base coat dip-spin applicator, an enclosed top coat dip-spin applicator, a flash-off area, and a 3.3 MMBtu/hr natural gas-fired curing oven oven all controlled by a regenerative thermal oxidizer (RTO1).

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

Regenerative Thermal Oxidizer (RTO3)

**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. VOCs	29.5 tpy	13 - four-week rolling time periods, as determined at the end of each four-week period	EUDIPSPIN30	SC VI.3, SC VI.4	R 336.1205(1)(a), R 336.1702(a)

**II. MATERIAL LIMIT(S)**

NA

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

1. The collection and disposal of waste coatings, reducers, additives, and solvents shall be performed in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1225, R 336.1702(a))**
2. The permittee shall implement and maintain a malfunction abatement plan (MAP) for EUDIPSPIN30 subject to review and approval by the AQD District Supervisor. The MAP shall include at a minimum, the optimum operating parameters for the add-on air pollution control device, maintenance, and inspection schedules, monitoring equipment, and corrective action plans for equipment failure. **(R 336.1911)**
3. The permittee shall maintain a minimum of 0.007 inches of water pressure differential between the PTE and the adjacent area on a continuous basis. **(R 336.1225, R 336.1702)**

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

1. The permittee shall not operate EUDIPSPIN30 unless the regenerative thermal oxidizer is installed and operating properly. Proper operation of the regenerative thermal oxidizer includes a minimum VOC capture efficiency of 100 percent by weight and a minimum VOC destruction efficiency of 95 percent, by weight, and maintaining a minimum temperature of 1400°F and a minimum retention time of 0.5 seconds. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a), R 336.1910)**
2. The permittee shall not operate EUDIPSPIN30 unless the permanent total enclosure (PTE) is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. Satisfactory operation requires that the PTE is operating at a pressure lower than all adjacent areas, so that air flows into

the PTE through all natural draft openings (NDOs). NDO is defined as any opening that is not connected to a duct in which a fan or blower is installed. **(R 336.1225, R 336.1702)**

3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, acceptable to the AQD District Supervisor, devices to continuously monitor and record the pressure differential between the permanent total enclosure (PTE) for EUDIPSPIN30 and the outside area, to verify that air is entering the PTE. **(R 336.1225, R 336.1702)**

#### **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 received and as applied, 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 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. Within 180 days from the commencement of trial operation of FGDIPSPINS2, the permittee shall verify the VOC destruction efficiency of RTO3, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1205, R 336.1702, 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 end of the 4-week period, for the previous 4-week period, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall monitor, in a satisfactory manner, and record the temperature in the regenerative thermal oxidizer portion of EUDIPSPIN30 near the combustion chamber outlet on a continuous basis in a manner and with instrumentation acceptable to the AQD District Supervisor. For the purpose of this condition, monitoring and recording of data "on a continuous basis" is defined as an instantaneous data point recorded at least once every 15 minutes. All temperature data shall be kept on file and made available to the Department upon request. **(R 336.1225, R 336.1702(a), R 336.1910)**
3. The permittee shall maintain a current listing from the manufacturer, of the chemical composition of each coating, reducer, additive, cleanup solvent, etc., including the weight percent of each component that is used in EUDIPSPIN30. 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(a))**
4. The permittee shall keep the following information on a four-week basis for EUDIPSPIN30:
  - a) Hours of operation for each dip/spin line.
  - b) For each coating, reducer, additive, and cleanup/purge solvent used and/or reclaimed:
    - i. All coating identification.
    - ii. The amount used in gallons for each coating, reducer, additive, and cleanup/purge solvent.
    - iii. The VOC content in pounds per gallon (with water), as received and as applied.
  - c) VOC emission rate in tons per four-week period, and 13 - four-week rolling time periods emission rate determined at the end of each four-week period in tons per year for EUDIPSPIN30.

The permittee shall keep the records using mass balance, or a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R336.1205(1)(a), R 336.1225, R 336.1702(a))**

- 5. The permittee shall monitor and record, in a satisfactory manner acceptable to the AQD District Supervisor, the pressure differential between the permanent total enclosure (PTE) for EUDIPSPIN30 and the outside area, on a continuous basis, to verify that air is entering the PTE. Within 90 days of permit issuance, the permittee shall prepare and submit an air pressure differential monitoring plan to the AQD Technical Programs Unit prior to any monitoring. The monitoring plan shall include a quality assurance plan stating the method proposed to calibrate/audit the monitor in order to verify that the monitoring equipment has been installed and is operating properly. **(R 336.1225, R 336.1702)**
- 6. The permittee shall keep records of the water pressure differential between the PTE and the adjacent area. Differential pressure 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 at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

**VII. REPORTING**

NA

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

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

<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. SV0003 (RTO3)	42	50	R 336.1225, 40 CFR 52.21(c) &(d)

**IX. OTHER REQUIREMENT(S)**

- 2. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EUDIPSPIN30. **(R 336.1201(7)(a))**

**Footnotes:**

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

## FLEXIBLE GROUP SPECIAL CONDITIONS

### FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGDIPSPINS	Two (2) miscellaneous metal parts dipspin coating lines Nos. 27 and 29 controlled by a shared regenerative thermal oxidizer (RTO2).	EUDIPSPIN27, EUDIPSPIN29
FGDIPSPINS2	Three (3) dip spin lines for coating miscellaneous metal parts. Each miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven.	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20
FGRULE621	All metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20

**FGDIPSPINS  
FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Two (2) miscellaneous metal parts dipspin coating lines Nos. 27 and 29 controlled by a shared regenerative thermal oxidizer.

**Emission Unit:** EUDIPSPIN27, EUDIPSPIN29

**POLLUTION CONTROL EQUIPMENT**

Regenerative Thermal Oxidizer (RTO2)

**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. VOCs	18.0 tpy	13 - four-week rolling time periods, as determined at the end of each four-week period	FGDIPSPINS	SC VI.3, SC VI.4	R 336.1205(1)(a), R 336.1702(a)

**II. MATERIAL LIMIT(S)**

NA

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

1. 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 336.1225, R 336.1702(a))**
2. 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, R 336.1225, R 336.1702(a))**

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

1. The permittee shall not operate FGDIPSPINS unless the regenerative thermal oxidizer (RTO) is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the RTO includes a minimum VOC capture and destruction efficiency of 81 percent (by weight) combined, maintaining a minimum temperature of 1400°F, and a minimum retention time of 0.5 seconds. In lieu of a minimum temperature, the permittee may use an average temperature of 1450°F based upon a three-hour rolling average. **(R 336.1205(1)(a), R 336.1225, R 336.1702, R 336.1910)**
2. 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 FGDIPSPINS. **(R 336.1205, R 336.1225, R 336.1702)**

**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 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, 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 end of the 4-week period, for the previous 4-week period, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702)**
2. The permittee shall monitor, in a satisfactory manner, the temperature in the combustion chamber of the RTO on a continuous basis, during operation of FGDIPSPINS. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, thinner, solvent, etc., 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)**
4. The permittee shall keep the following information on a four-week basis for FGDIPSPINS:
  - a) Gallons (with water) of each coating, thinner, solvent, etc. used and/or reclaimed.
  - b) VOC content (with water) of each coating, thinner, solvent, etc. as applied.
  - c) VOC mass emission calculations determining the monthly emission rate in tons per four-week period.
  - d) VOC mass emission calculations determining the annual emission rate in tons per 13 - four-week rolling time period as determined at the end of each four-week period.

The permittee shall keep the records using mass balance, or a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a), R 336.1702)**

5. The permittee shall keep, in a satisfactory manner, operating temperature records for the RTO as required by SC IV.1. If the measured operating temperature of the RTO falls below 1400°F during operation of FGDIPSPINS, the permittee may demonstrate compliance based upon a three-hour average temperature, by calculating the average operating temperature for each three-hour period which includes one or more temperature readings below 1450°F. The permittee shall keep all records and calculations on file and make them available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1702)**

## **VII. REPORTING**

NA

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

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

<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-DIPSPINSRTO (RTO2)	24 x 42	61	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).

**FGDIPSPINS2  
 FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Three (3) dip spin line for coating miscellaneous metal parts. Each miscellaneous metal parts dipspin coating line consisting of an enclosed dip-spin applicator, a flash-off area, and a 5.0 MMBtu/hr natural gas-fired curing oven.

**Emission Unit:** EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20

**POLLUTION CONTROL EQUIPMENT**

Dry 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. VOCs	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	Each EU Separately (EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20)	SC VI.3	R 336.1702(d)
2. VOCs	2000 lb/month	Calendar Month	Each EU Separately (EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20)	SC VI.3	R 336.1702(d)

**II. MATERIAL LIMIT(S)**

NA

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

1. 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 336.1225, R 336.1702(d))**
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, 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 336.1225, R 336.1702(d))**

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

NA

**V. TESTING/SAMPLING**

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

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 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, 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 each separately for EUDIPSPIN18, EUDIPSPIN19, and EUDIPSPIN20:
  - a) Gallons (with water) or pounds of each coating used and/or reclaimed.
  - b) VOC content (with water) of each coating 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 a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1702(d))**

#### **VII. REPORTING**

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification of EUDIPSPIN18 and EUDIPSPIN19 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 EUDIPSPIN18 and EUDIPSPIN19. **(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. SVDIP18-1 (Dip spin Coating Line No. 18)	26	35	R 336.1225, 40 CFR 52.21(c) & (d)
2. SVDIP19-1 (Dip spin Coating Line No. 19)	26	35	R 336.1225, 40 CFR 52.21(c) & (d)
3. SVDIP20-1 (Dip spin Coating Line No. 20)	24	30	R 336.1225, 40 CFR 52.21(c) & (d)

<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>
4. SVDIP20-2 (Dip spin Coating Line No. 20)	24	30	R 336.1225, 40 CFR 52.21(c) & (d)
5. SVDIP20-3 (Dip spin Coating Line No. 20)	24	30	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).

**FGRULE621  
FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

All metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b).

**Emission Unit:** EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20

**POLLUTION CONTROL EQUIPMENT**

Dry 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. VOCs	30.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGRULE621	SC VI.3	R 336.1702(d)

**II. MATERIAL LIMIT(S)**

NA

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

1. 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 336.1225, R 336.1702(d))**
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, 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 336.1225, R 336.1702(d))**

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

NA

**V. TESTING/SAMPLING**

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

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 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating, 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 all metal parts coating lines source-wide, including metal parts coating lines covered by other permits, which are exempted by R 336.1621(10)(b):
  - a) Gallons (with water) or pounds of each coating used and/or reclaimed.
  - b) VOC content (with water) of each coating 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 a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, 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).

## FGFACILITY CONDITIONS

### DESCRIPTION

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

### POLLUTION CONTROL EQUIPMENT

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. Each Individual HAP	Less than 9.0 tpy	13 - four-week rolling time periods as determined at the end of each four-week period	FGFACILITY	SC VI.2	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	13 – four-week rolling time periods as determined at the end of each four-week period	FGFACILITY	SC VI.2	R 336.1205(3)
3. VOC	89.9 TPY	13 – four-week rolling time periods as determined at the end of each four-week period	FGFACILITY	SC VI.3	R 336.1205(3)

#### 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. Group 1 Coatings	a) Group 1 Coatings: VOC Content of greater than 5.0 and less than or equal to 9.0 lb/gal, as applied	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of FGFACILITY	SC VI.4	R 336.1205(1)(a)
	b) 1,096 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			

<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>
2. Group 1 and Group 2 Coatings, combined <sup>a</sup>	a) Group 2 Coatings: VOC Content of greater than 3.0 and less than or equal to 5.0	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of FGFACILITY	SC VI.4	R 336.1205(1)(a)
	b) 1,324 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			
3. Group 1, Group 2, and Group 3 Coatings, combined <sup>a</sup>	a) Group 3 Coatings: VOC Content of greater than 1.0 and less than or equal to 3.0	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of FGFACILITY	SC VI.4	R 336.1205(1)(a)
	b) 17,150 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			
4. Group 1, Group 2, Group 3, and Group 4 Coatings, combined <sup>a</sup>	a) Group 4 Coatings: VOC Content of greater than 0.1 and less than or equal to 1.0	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of FGFACILITY	SC VI.4	R 336.1205(1)(a)
	b) 18,320 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			
5. Group 1, Group 2, Group 3, Group 4, and Group 5 Coatings, combined <sup>a</sup>	a) Group 5 Coatings: VOC Content of less than or equal to 0.1	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of FGFACILITY	SC VI.4	R 336.1205(1)(a)
	b) 21,784 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			
6. ECoat Group 1*	a) ECoat Group 1: VOC Content of less than or equal to 2.0 lb/gal	Instantaneous	EU-ECoat	SC VI.4	R 336.1205(1)(a)
	b) 82,782 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
7. ECoat Group 2*	a) ECoat Group 2: VOC Content of greater than 2.0 lb/gal and less than or equal to 8.0 lb/gal	Instantaneous	EU-ECoat	SC VI.4	R 336.1205(1)(a)
	b) 14,911 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month			
<p><sup>a</sup> These usage limits are additive (<i>i.e.</i>, SC II.2 includes coatings included as part of SC II.1, SC II.3 includes coatings included as part of SC II.2, etc.)</p> <p>* The EU ECOAT emission rate is based upon a maximum of 3.3 % of the VOCs in the products used being emitted to the ambient air.</p>					

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

NA

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

NA

**V. TESTING/SAMPLING**

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

1. The permittee shall determine the HAP content of any material as applied and as received, 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))**

**VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the end of the 4-week period, for the previous 4-week period, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3))**
2. The permittee shall keep the following information on a four-week basis for FGFACILITY:
  - 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 emission rate of each in tons per four-week period.
  - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 13 – four-week rolling time periods as determined at the end of each four-week period. For each four-week period, calculations shall include the summation of emissions for the appropriate number of four-week periods prior to permit issuance plus the four-week periods following permit issuance for a total of 13 consecutive four-week periods.

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

3. The permittee shall keep the following information on a four-week basis for FGFACILITY:

- a) Gallons or pounds of each VOC containing material used and/or reclaimed.
- 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 emission rate of each in tons per four-week period.
- e) VOC emission calculations determining the annual emission rate of VOC in tons per 13 – four-week rolling time periods as determined at the end of each four-week period. For each four-week period, calculations shall include the summation of emissions for the appropriate number of four-week periods prior to permit issuance plus the four-week periods following permit issuance for a total of 13 consecutive four-week periods.

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

4. The permittee shall keep the following information on a monthly basis for EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20, and EU-Ecoat portion of FGFACILITY:

- a) Gallons of each VOC containing material used and, if applicable, reclaimed.
- b) VOC content, in pounds per gallon as applied, of each VOC containing material used.
- c) Gallons, with water, of each of the following coatings groups or combination of coating groups used per 12-month rolling time period as determined at the end of each calendar month:
  - i) Group 1 Coatings to show compliance with SC II.1b
  - ii) Group 2 Coatings
  - iii) Group 3 Coatings
  - iv) Group 4 Coatings
  - v) Group 5 Coatings
  - vi) ECoat Group 1 Coatings to show compliance with SC II.6b
  - vii) ECoat Group 2 Coatings to show compliance with SC II.7b
  - viii) Total Coatings from Groups 1 and 2 to show compliance with SC II.2b
  - ix) Total Coatings from Groups 1, 2, and 3 to show compliance with SC II.3b
  - x) Total Coatings from Groups 1, 2, 3, and 4 to show compliance with SC II.4b
  - xi) Total Coatings from Groups 1, 2, 3, 4, and 5 to show compliance with SC II.5b
- 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 alternate 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(1)(a), R 336.1205(3))**

**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).