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

December 7, 2021

PERMIT TO INSTALL 383-00J

ISSUED TO Curtis Metal Finishing Company

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:

November 18, 2021

DATE PERMIT TO INSTALL APPROVED: December 7, 2021	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

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

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU °C CO CO ₂ e dscf dscm °F gr HAP Hg hr HP H2S KW Ib m mg mm MM MW NMOC NOx ng PM PM10 PM10 PM2.5 pph ppm PM10 PM2.5 pph ppmv ppmv ppmv ppmv psia psig scf sec SO ₂ TAC Temp THC tpy	Actual cubic feet per minute British Thermal Unit Degrees Celsius Carbon Monoxide Carbon Dioxide Equivalent Dry standard cubic foot Dry standard cubic meter Degrees Fahrenheit Grains Hazardous Air Pollutant Mercury Hour Horsepower Hydrogen Sulfide Kilowatt Pound Meter Milligram Millimeter Million Megawatts Non-Methane Organic Compounds Oxides of Nitrogen Nanogram Particulate Matter Particulate Matter Particulate Matter equal to or less than 10 microns in diameter Particulate Matter Parts per million by volume Parts per million by volume Parts per million by weight Pounds per square inch absolute Pounds per square inch absolute Pou
	Tons per year
μg	
µm VOC	Micrometer or Micron
VOC	Volatile Organic Compounds Year
yr	i eai

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 Description (Including Process Equipment & Control	Installation Date /	
Emission Unit ID	Device(s))	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	-
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	-
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: TBD	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: TBD	FGDIPSPIN2 FGRULE621
EUDIPSPIN20	A miscellaneous metal parts dipspin coating line.	Installed 5/2016	FGDIPSPIN2 FGRULE621

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)

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

 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))

 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. <u>REPORTING</u>

NA

VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1.	SV0001 (RTO1)	60	40	R 336.1225, 40 CFR 52.21(c) &(d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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-week period	EUECOAT	SC VI.2,	R 336.1205,	
	four-weeks			SC VI.3	R 336.1702(a)	
2. VOCs*	4.7 tpy	13 - four-week rolling time	EUECOAT	SC VI.2,	R 336.1205,	
		periods, as determined at the		SC VI.3	R 336.1702(a)	
		end of each four-week period				
* 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)

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- 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. <u>REPORTING</u>

NA

VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1.	SV0002	12	40	R 336.1225,
	(Electrodeposition tank)			40 CFR 52.21(c) &(d)
2.	SV0005	16	40	R 336.1225,
	(Line 42 oven)			40 CFR 52.21(c) &(d)
3.	SV0006	16	40	R 336.1225,
	(Line 42 oven)			40 CFR 52.21(c) &(d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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)

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

- 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))

 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)
- 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)
- 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. <u>REPORTING</u>

NA

VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1.	SV-DIPSPINSRTO (RTO2)	24 x 42	61	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

FGDIPSPINS2 EMISSION UNIT 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 ID: EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20

POLLUTION CONTROL EQUIPMENT

Dry filters to control particulate matter

I. EMISSION LIMIT(S)

Pollutant	Limit	Limit Time Period / Operating Scenario		Testing / Monitoring Method	Underlying Applicable Requirements
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 Ib/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. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

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, 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)
- 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. <u>REPORTING</u>

 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:

	Stack & Vent ID	Maximum ExhaustMinimum HeightStack & Vent IDDiameter/ Dimensions (inches)Above Ground (feet)		
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)

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

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)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
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))
- 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)
- 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. <u>REPORTING</u>

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:

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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)

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

	Material		Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
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			
2.	Group 1 and Group 2 Coatings, combined ^a	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			

Material		Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
3. Group 1, Group 2, and Group 3 Coatings, combined ^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,	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)
combinedª	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,		Group 5 Coatings: VOC Content of less than or equal to 0.1	Instantaneous	EUDIPSPIN18, EUDIPSPIN19, EUDIPSPIN20 portion of	SC VI.4	R 336.1205(1)(a)
and Group 5 Coatings, combined ^a	, p)	21,784 gallons (with water) per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY		
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			
7. ECoat Group 2*	a)	ECoat Group 2: VOC Content of greater than 2.0 Ib/gal and less than or equal to 8.0 Ib/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			

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements			
^a 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.)								
* The EUECOAT emission rate is based upon a maximum of 3.3 % of the VOCs in the products used being								
emitted to the	ambient air.				°,			

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

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 fourweek period, calculations shall include the summation of emissions for the appropriate number of fourweek 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. <u>REPORTING</u>

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes: