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

November 2, 2022

PERMIT TO INSTALL
489-99F

ISSUED TO
Depor Industries, Inc.

LOCATED AT
1902 Northwood
Troy, Michigan 48084

IN THE COUNTY OF
Oakland

STATE REGISTRATION NUMBER
N7599

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: **October 6, 2022**	
DATE PERMIT TO INSTALL APPROVED: **November 2, 2022**	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_2e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H_2S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO_x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO_2	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

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

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

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

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

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

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

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal 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
EU-AcidCleaning-01	An acid cleaning tank which uses sulfuric acid (CAS No. 7664-93-9) for pickling metal parts. Stack ID: SV-AcidCleaning-01	03/27/2000 07/16/2010	FGAcidCleaningLns
EU-AcidCleaning-02	An acid cleaning tank which uses sulfuric acid (CAS No. 7664-93-9) for pickling metal parts. Stack ID: SV-AcidCleaning-02	03/27/2000 07/16/2010	FGAcidCleaningLns
EU-DipCoating-01	Dip-spin coating line No. 1 for surface coating of miscellaneous metal parts equipped with an air collection system and a regenerative thermal oxidizer (RTO) for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-02	Dip-spin coating line No. 2 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-03	Dip-spin coating line No. 3 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-04	Dip-spin coating line No. 4 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-05	Dip-spin coating line No. 5 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-06	Dip-spin coating line No. 6 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	03/27/2000 07/16/2010	FGDipCoatingLns
EU-DipCoating-07	Dip-spin coating line No. 7 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	08/27/2012	FGDipCoatingLns
EU-DipCoating-08	Dip-spin coating line No. 8 for surface coating of miscellaneous metal parts equipped with an air collection system and a RTO for VOC reduction. Stack ID: SV-RTO	01/31/2014	FGDipCoatingLns

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-BURNOFF	Global Finishing Solutions model no. BBO-6606 natural gas fired burn off oven with a 0.80 mmBTU/hr primary chamber for removing cured paints and coatings from metal parts by thermal decomposition. Emissions from the burn off oven are controlled by a 0.80 mmBTU/hr secondary chamber afterburner.	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.

EU-BURNOFF
EMISSION UNIT CONDITIONS

DESCRIPTION

Global Finishing Solutions model no. BBO-6606 natural gas fired burn off oven with a 0.80 mmBTU/hr primary chamber for removing cured paints and coatings from metal parts by thermal decomposition. Emissions from the burn off oven are controlled by a 0.80 mmBTU/hr secondary chamber afterburner.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Secondary chamber (afterburner)

I. EMISSION LIMIT(S)

1. There shall be no visible emissions from EU-BURNOFF. **(R 336.1225, R 336.1301, R 336.1910)**

II. MATERIAL LIMIT(S)

1. The permittee shall burn only natural gas in EU-BURNOFF. **(R 336.1224, R 336.1225, R 336.1702, 40 CFR 52.21(c) & (d))**

2. The permittee shall not process any material in EU-BURNOFF other than cured paints on metal parts, racks and/or hangers.[1] **(R 336.1224, R 336.1225)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not use EU-BURNOFF for the thermal destruction or removal of rubber, plastics, uncured paints, or any other materials containing sulfur or halogens (chlorine, fluorine, bromine, etc.) such as plastisol, polyvinyl chloride (PVC), or Teflon.[1] **(R 336.1224, R 336.1225)**

2. The permittee shall not load any transformer cores, which may be contaminated with PCB-containing dielectric fluid, wire or parts coated with lead or rubber, or any waste materials such as paint sludge or waste powder coatings into EU-BURNOFF.[1] **(R 336.1224, R 336.1225)**

3. The permittee shall operate EU-BURNOFF according to the manufacturer's recommendations. **(R 336.1224, R 336.1225, R 336.1702, R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-BURNOFF unless a secondary chamber or afterburner is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the secondary chamber or afterburner includes maintaining a minimum temperature of 1400°F and a minimum retention time of 0.5 seconds. **(R 336.1224, R 336.1225, R 336.1301, R 336.1702, R 336.1910)**

2. The permittee shall not operate EU-BURNOFF unless an automatic temperature control system for the primary chamber and secondary chamber or afterburner is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1225, R 336.1301, R 336.1910)**

3. The permittee shall not operate EU-BURNOFF unless an interlock system is installed, maintained and operated in a satisfactory manner that shuts down the primary chamber burner when the secondary chamber

or afterburner is not operating properly, such as when experiencing a malfunction caused by: **(R 336.1224, R 336.1225, R 336.1301, R 336.1910)**

a) Natural gas supply pressure is too high or too low,
b) Water supply pressure is too low,
c) Primary chamber excess temperature, or
d) Afterburner excess temperature.

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 records in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1225, R 336.1301, R 336.1910)**

2. The permittee shall calibrate the thermocouples associated with the primary and secondary chambers at least once per year. Records of all thermocouple calibrations associated with the primary and secondary chamber portions of EU-BURNOFF shall be kept on-site and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to continuously monitor the temperature in the burn off oven secondary chamber/afterburner portion of EU-BURNOFF and record the temperature at least once every 15 minutes. The permittee shall keep the records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1910)**

4. The permittee shall keep, in a satisfactory manner, records of the date, duration, and description of any malfunction of the control equipment, and any maintenance performed for EU-BURNOFF. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1910, R 336.1912)**

5. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material processed in EU-BURNOFF, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, both. All records shall be kept on file for a period of at least five years and made available to the Department upon request.[1] **(R 336.1224, R 336.1225)**

6. The permittee shall maintain current information from the manufacturer that EU-BURNOFF is equipped with a secondary chamber or afterburner, an automatic temperature control system for the primary chamber and secondary chamber or afterburner, and an interlock system that shuts down the primary chamber burner when the secondary chamber or afterburner is not operating properly. All records shall be kept on file for a period of at least five years and made available to the Department upon request.[1] **(R 336.1224, R 336.1225)**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EU-BURNOFF. **(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 Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV001	18	39	R 336.1225 40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGAcidCleaningLns	Two acid cleaning tanks which uses sulfuric acid (CAS No. 7664-93-9) for pickling metal parts. Stack ID: SV-AcidCleaning-01 & SV-AcidCleaning-02	EU-AcidCleaning-01, EU-AcidCleaning-02
FGDipCoatingLns	Miscellaneous metal parts coating process. Coating is transferred to the metal parts using dip-spin application and dried or cured in coating ovens. All eight dip coating lines are equipped with a process air collection system that exhausts captured VOC to a regenerative thermal oxidizer (RTO) for VOC reduction. Stack ID: SV-RTO.	EU-DipCoating-01, EU-DipCoating-02, EU-DipCoating-03, EU-DipCoating-04, EU-DipCoating-05, EU-DipCoating-06, EU-DipCoating-07, EU-DipCoating-08

FGACIDCLEANINGLNS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two acid cleaning tanks which uses sulfuric acid (CAS No. 7664-93-9) for pickling metal parts.
Stack ID: SV-AcidCleaning-01 & SV-AcidCleaning-02

Emission Unit: EU-AcidCleaning-01 and EU-AcidCleaning-02

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use any material other than sulfuric acid (CAS No. 7664-93-9) in EU-AcidCleaning without prior notification to and approval by the AQD.[1] **(R 336.1224, R 336.1225)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of sulfuric acid (CAS No. 7664-93-9), in accordance with all applicable regulations.[1] **(R 336.1224, R 336.1225)**

2. The permittee shall capture all waste sulfuric acid (CAS No. 7664-93-9) 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.[1] **(R 336.1224, R 336.1225)**

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 record 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.[1] **(R 336.1224, R 336.1225)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of material used in FGAcidCleaningLns, 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.[1] **(R 336.1224, R 336.1225)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-AcidCleaning-01	32	40	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV-AcidCleaning-02	28	40	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

FGDIPCOATINGLNS
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Miscellaneous metal parts coating process. Coating is transferred to the metal parts using dip-spin application and dried or cured in coating ovens. All eight dip coating lines are equipped with a process air collection system that exhausts captured VOC to a regenerative thermal oxidizer (RTO) for VOC reduction.

Emission Unit: EU-DipCoating-01, EU-DipCoating-02, EU-DipCoating-03, EU-DipCoating-04, EU-DipCoating-05, EU-DipCoating-06, EU-DipCoating-07, and EU-DipCoating-08

POLLUTION CONTROL EQUIPMENT

A process air collection system that exhausts captured VOC to an RTO for VOC reduction

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	40.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGDipCoatingLns	SC VI.1, SC VI.2, SC VI.3	R 336.1205, R 336.1702(a)
2. Ethyl Benzene (CAS No. 100-41-4)	0.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGDipCoatingLns	SC VI.1, SC VI.2, SC VI.4	R 336.1225(1)
3. Dimethyl Glutarate (CAS No. 1119-40-0), Dimethyl Adipate (CAS No. 627-93-0), and Dimethyl Succinate (CAS No. 106-65-0)*	3.2 tpy	12-month rolling time period as determined at the end of each calendar month	FGDipCoatingLns	SC VI.1, SC VI.2, SC VI.4	R 336.1225(1)

* Dimethyl Glutarate, Dimethyl Adipate, and Dimethyl Succinate collectively known as Dibasic Ester

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall recover and reclaim, recycle, or dispose of paints, coatings, reducer, thinners, cleanup solvents, etc. (materials), in accordance with all applicable regulations. **(R 336.1702(a))**

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

3. The permittee shall handle all VOC and / or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205, R 336.1702(a))**

4. The permittee shall not operate FGDipCoatingLns unless a malfunction abatement plan (MAP) as described in Rule 911(2), has been submitted within 90 days of permit issuance, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
   a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

   b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.

   c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

   If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1205, R 336.1702(a), R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) and (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FGDipCoatingLns unless the air collection system and the RTO are installed, maintained and operated in a satisfactory manner. Satisfactory operation of the air collection system of 85.0 percent (by weight), and maintaining a minimum combustion zone temperature no less than that demonstrated during the most recent acceptable stack test which achieved a minimum destruction efficiency of 95.0%, and which is specified in the MAP required in SC III.4, and a minimum retention time of 0.5 seconds. **(R 336.1205, R 336.1702(a), R 336.1910)**

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content, and density of any material 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 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

2. Upon request of the AQD District Supervisor, the permittee shall verify the capture efficiency of the air collection system, by testing at owner's expense. The permittee must complete testing of the capture efficiency of the air collection system once every five years, thereafter. The testing requirement may be waived if the most recent approved capture efficiency test results remain valid and representative, and an acceptable demonstration is made to and approved by the AQD District Supervisor. The test shall be conducted in accordance with Department requirements. No less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of capture efficiency includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**

3. The permittee shall verify the destruction efficiency of the RTO, by testing at owner's expense. The permittee must complete testing of destruction efficiency of the RTO once every five years, thereafter. The testing requirement may be waived if the most recent approved stack test results remain valid and representative, and an acceptable demonstration is made to and approved by the AQD District Supervisor. The test shall be conducted in accordance with Department requirements. No less than 60 days prior to testing, a complete test plan shall be submitted to the AQD. The final plan must be approved by the AQD prior to testing. Verification of destruction efficiency includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(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(a))**

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

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

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

4. The permittee shall keep the following information on a calendar month basis for the FGDipCoatingLns:
   a) Gallons (with water) of each dibasic ester and ethyl benzene (CAS No. 100-41-4) containing material used.
   b) Where applicable, the gallons (with water) of dibasic ester and ethyl benzene (CAS No. 100-41-4) containing material reclaimed.
   c) The dibasic ester and ethyl benzene (CAS No. 100-41-4) content (with water) in pounds per gallon of each material used.
   d) Dibasic ester and ethyl benzene (CAS No. 100-41-4) mass emission calculations determining the monthly emission rate in tons per calendar month.
   e) Dibasic ester and ethyl benzene (CAS No. 100-41-4) 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 in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.[1] **(R 336.1225(1))**

5. The permittee shall install, calibrate, maintain, operate, and record, in a satisfactory manner, the temperature in the combustion chamber of the RTO. Temperature data recording shall consist of measurements made at equally spaced intervals, not to exceed 15 minutes per interval. The permittee shall keep all records and calculations on file and make them available to the Department upon request. **(R 336.1702(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification of EU-DipCoating-08 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 EU-DipCoating-07. **(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 Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO	36 x 78	30	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

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

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

For FGDipCoatingLns portion of the FG-Facility, a process air collection system that exhausts captured VOC to a RTO for VOC reduction.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 9.0 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.2	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.2	R 336.1205(3)
3. Napthalene (CAS No. 91-20-3)	2.5 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.3	R 336.1225(2)
4. Formaldehyde (CAS No. 50-00-0)	0.1 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.3	R 336.1225(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

1. The permittee shall determine the HAP content of any paints, coatings, reducer, thinners, cleanup solvents, *etc.* (materials) 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 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3))**

2. The permittee shall keep the following information on a calendar month basis for FG-Facility:

   a) Gallons or pounds of each HAP containing material used.
   b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
   c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
   d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
   e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month. For the first month following permit issuance, the calculations shall include the summation of emissions from the 11-month period immediately preceding the issuance date. For each month thereafter, calculations shall include the summation of emissions for the appropriate number of months prior to permit issuance plus the months following permit issuance for a total of 12 consecutive months.

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

3. The permittee shall keep the following information on a calendar month basis for the FG-Facility:
   a) Gallons (with water) of each naphthalene (CAS No. 91-20-3) and formaldehyde (CAS No. 50-00-0) containing material used.
   b) Where applicable, the gallons (with water) of naphthalene (CAS No. 91-20-3) and formaldehyde (CAS No. 50-00-0) containing material reclaimed.
   c) The naphthalene (CAS No. 91-20-3) and formaldehyde (CAS No. 50-00-0) content (with water) in pounds per gallon of each material used.
   d) Napthalene (CAS No. 91-20-3) and formaldehyde (CAS No. 50-00-0) mass emission calculations determining the monthly emission rate in tons per calendar month.
   e) Napthalene (CAS No. 91-20-3) and formaldehyde (CAS No. 50-00-0) 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 in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.[1] **(R 336.1225(2))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

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