

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

April 9, 2012

PERMIT TO INSTALL
224-06A

ISSUED TO
Lakeland Finishing, Inc.

LOCATED AT
5400 36th Street SE
Grand Rapids, Michigan

IN THE COUNTY OF
Kent

STATE REGISTRATION NUMBER
N5155

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

March 13, 2012

DATE PERMIT TO INSTALL APPROVED:

April 9, 2012

SIGNATURE:

DATE PERMIT VOIDED:

SIGNATURE:

DATE PERMIT REVOKED:

SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant/Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
ANSI	American National Standards Institute	°C	Degrees Celsius
BACT	Best Available Control Technology	CO	Carbon Monoxide
CAA	Clean Air Act	dscf	Dry standard cubic foot
CEM	Continuous Emission Monitoring	dscm	Dry standard cubic meter
CFR	Code of Federal Regulations	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MIOSHA	Michigan Occupational Safety & Health Administration	PM10	PM less than or equal to 10 microns diameter
MSDS	Material Safety Data Sheet	PM2.5	PM less than or equal 2.5 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pound per hour
NSPS	New Source Performance Standards	ppm	Parts per million
NSR	New Source Review	ppmv	Parts per million by volume
PS	Performance Specification	ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonably Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO ₂	Sulfur Dioxide
SC	Special Condition	THC	Total Hydrocarbons
SCR	Selective Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TAC	Toxic Air Contaminant	VOC	Volatile Organic Compounds
TEQ	Toxicity Equivalence Quotient	yr	Year
VE	Visible Emissions		

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

GENERAL CONDITIONS

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

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

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

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

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EU-CoatLine-01	A plastic parts spray coating line consisting of Paintbooth 01, 02, 03, and 04; and natural gas-fired Convection Oven #01.	09-13-2006	FG-Facility
EU-CoatLine-02	A plastic and/or metal parts spray coating line consisting of Paintbooth 05, 06, 07, and 08; and natural gas-fired Convection Oven #02.	04-09-2012	FG-Facility
EU-CoatLine-03	A plastic parts spray coating line consisting of Paintbooth 09, 10, 11, 12 and 13; and natural gas-fired Convection Oven #03.	09-13-2006	FG-Facility
EU-CoatLine-04	A plastic parts spray coating line consisting of Paintbooth 14, 15, and 16; and natural gas-fired Convection Oven #04.	09-13-2006 / 04-09-2012	FG-Facility
EU-CoatLine-05	A plastic and/or metal parts spray coating line consisting of Paintbooth 17, 18, and 19; and natural gas-fired Convection Oven #05. VOC emissions from paintbooths will be controlled by a Regenerative Thermal Oxidizer (RTO).	04-09-2012	FG-Facility
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.			

The following conditions apply to: EU-CoatLine-05

DESCRIPTION: A plastic and/or metal parts spray coating line consisting of Paintbooth 17, 18, and 19; and natural gas-fired Convection Oven #05.

Flexible Group ID: FG-Facility

POLLUTION CONTROL EQUIPMENT: VOC emissions from paintbooths will be controlled by a Regenerative Thermal Oxidizer (RTO) and particulate emissions from each paintbooth will be controlled by exhaust filters.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	11.6 tpy (excluding purge & cleanup)	12-month rolling time period as determined at the end of each calendar month	EU-CoatLine-05	SC VI.1, SC VI.5	R 336.1205, R 336.1702(a)
2. VOC	5.8 pph	Test Protocol*	EU-CoatLine-05	SC V.2	R 336.1205, R 336.1702(a)

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of all coatings, reducers, thinners, purge and clean-up 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 336.1224, R 336.1702(a))**
3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**
4. The permittee shall handle all VOC and / or HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EU-CoatLine-05 unless all respective exhaust filters are installed and operating in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1910)**
2. The permittee shall equip and maintain EU-CoatLine-05 with High Volume Low Pressure (HVLP) or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**

3. The permittee shall not operate EU-CoatLine-05 unless the thermal oxidizer is installed, maintained and operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes a minimum VOC capture efficiency of 80 percent (by weight), a minimum VOC destruction efficiency of 95 percent (by weight), and maintaining a minimum temperature of 1450°F and a minimum retention time of 0.5 seconds. **(R 336.1205, R 336.1225, R 336.1702(a), R 336.1910)**
4. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a temperature monitoring device in the combustion chamber of the thermal oxidizer to monitor and record the temperature on a continuous basis, during operation of EU-CoatLine-05. **(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 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 336.1205, R 336.1225, R 336.1702, R 336.2001, R 336.2003, R 336.2004, R 336.2040(5))**
2. Within 60 days of achieving the maximum production rate, but not later than 180 days after commencement of trial operation, verification of emission limit listed in the SC I.2, verification of capture efficiency, and verification of destruction efficiency of the RTO by testing at owner's expense, in accordance with Department requirements, will be required. 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 and destruction efficiencies 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 336.2001, R 336.2003, R 336.2004, R 336.1205)**

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 336.1224, R 336.1225, R 336.1702, R 336.1901)**
2. The permittee shall monitor continuously and maintain continuous records of the temperature in the thermal oxidizer in a satisfactory manner, and with instrumentation acceptable to the Air Quality Division. 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))**
4. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702, R 336.1901)**
5. The permittee shall keep the following information on a calendar month basis for the EU-CoatLine-05:
 - a) Plastic parts or metal parts coating
 - b) Gallons (with water) of each material used and reclaimed.
 - c) VOC content (with water) of each material as applied.
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records 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 336.1225, R 336.1702(a))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification of EU-CoatLine-05 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-CoatLine-05. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-RTO	36.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
2. SV-ConvOven05	18.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

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
FG-CoatLines	Four spray coating lines. All plastic parts spray coating line except EU-CoatLines02 which is for plastic and/or metal parts spray coating lines.	EU-CoatLine01, EU-CoatLines02, EU-CoatLine03, EU-CoatLine04
FG-Cleanup	Clean-up and purge solvents used on all five lines.	EU-CoatLine01, EU-CoatLines02, EU-CoatLine03, EU-CoatLine04, EU-CoatLine05
FG-Facility	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	All equipment source-wide

The following conditions apply to: FG-CoatLines

DESCRIPTION: Four spray coating lines. All plastic parts spray coating line except EU-CoatLines02 will be for plastic and/or metal parts spray coating line.

Emission Units: EU-CoatLine01, EU-CoatLines02, EU-CoatLine03, and EU-CoatLine04

POLLUTION CONTROL EQUIPMENT: Particulate matter from paintbooths will be controlled by exhaust filters.

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	30.0 tpy	12-month rolling time period as determined at the end of each calendar month.	EU-CoatLine01	SC VI.1, SC VI.3	R 336.1702(d)
2. VOC	36.6 tpy	12-month rolling time period as determined at the end of each calendar month.	EU-CoatLine02	SC VI.1, SC VI.3	R 336.1702(d)
3. VOC	50 tpy	12-month rolling time period as determined at the end of each calendar month.	EU-CoatLine04	SC VI.1, SC VI.3	R 336.1702(d)
4. VOC	80.8 tpy	12-month rolling time period as determined at the end of each calendar month.	FG-CoatLines	SC VI.1, SC VI.3	R 336.1205(3), R 336.1702(d)
5. Dimethylethanolamine (CAS No. 108-01-0)	5.6 lb/day	Calendar day	FG-CoatLines	SC VI.1, SC VI.4	R 336.1225
6. Diethylene Glycol Monobutyl Ether (CAS No. 112-34-5)	7.0 lb/day	Calendar day	FG-CoatLines	SC VI.1, SC VI.4	R 336.1225
7. Xylene (CAS No. 1330-20-7)	35.4 lb/day	Calendar day	FG-CoatLines	SC VI.1, SC VI.4	R 336.1225
8. Hexamethylene Diisocyanate (CAS No. 822-06-0)	0.0034 lb/day	Calendar day	FG-CoatLines	SC VI.1, SC VI.4	R 336.1225
9. Naphthalene (CAS No. 91-20-3)	3.3 lb/day	Calendar day	EU-CoatLine02	SC VI.1, SC VI.4	R 336.1225
10. VOC	<u>Plastic Parts Coating:</u> Emission rates specified in R 336.1632(20), Table 66, incorporated by reference.	Daily volume-weighted average	EU-Coatline02, EU-CoatLine03, EU-CoatLine04 (each coating line)	SC VI.1, SC VI.3	R 336.1702(d)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
11. VOC	<u>Metal Parts Coating:</u> Emission rates specified in R 336.1621(1), incorporated by reference.	Daily volume-weighted average	EU-CoatLine02	SC VI.1, SC VI.3	R 336.1702(d)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of all coatings, reducers, thinners, purge and clean-up 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 336.1224, R 336.1225, R 336.1702(a))**
3. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**
4. The permittee shall handle all VOC and HAP containing materials, in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. **(R 336.1205(3), R 336.1224, R 336.1225, R 336.1702(d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate each paintbooth included in FG-CoatLines unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1331, R 336.1910)**
2. The permittee shall equip and maintain each paintbooth included in FG-CoatLines with High Volume Low Pressure (HVLP) guns or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. **(R 336.1702(a))**
3. The maximum oven temperature at which the permittee may dry air-dried coatings is 194°F. **(R 336.1702(d))**

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1205(3), R 336.1225, R 336.1702(a))**

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 recordkeeping, reporting or notification special condition. **(R 336.1205, R 336.1225, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**
3. The permittee shall keep separate record of the following information on a calendar day basis for each coating line and combined for FG-CoatLines:
 - a) Plastic parts coating or metal parts coating record (only for EU-CoatLines-02)
 - b) Gallons (with water) of each material used and reclaimed.
 - c) VOC content (minus water and with water) of each material as applied.
 - d) VOC emission calculations determining the volume-weighted average VOC content of the coatings as applied on a calendar day basis per coating line and coating category.
 - e) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - f) 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(3), R 336.1225, R 336.1702(d))**

4. The permittee shall keep the following information on a daily basis for EU-CoatLine02 and FG-CoatLines:
 - a) Gallons (with water) of each coating used that contains Naphthalene (CAS No. 91-20-3), Dimethylethanolamine (CAS No. 108-01-0), Diethylene Glycol Monobutyl Ether (CAS No. 112-34-5), Xylene (CAS No. 1330-20-7), and Hexamethylene Diisocyanate (CAS No. 822-06-0).
 - b) Where applicable, gallons (with water) reclaimed for each coating that contains Naphthalene (CAS No. 91-20-3), Dimethylethanolamine (CAS No. 108-01-0), Diethylene Glycol Monobutyl Ether (CAS No. 112-34-5), Xylene (CAS No. 1330-20-7), and Hexamethylene Diisocyanate (CAS No. 822-06-0).
 - c) The Naphthalene (CAS No. 91-20-3), Dimethylethanolamine (CAS No. 108-01-0), Diethylene Glycol Monobutyl Ether (CAS No. 112-34-5), Xylene (CAS No. 1330-20-7), and Hexamethylene Diisocyanate (CAS No. 822-06-0) content (with water) in pounds per gallon of each material used.
 - d) Naphthalene (CAS No. 91-20-3), Dimethylethanolamine (CAS No. 108-01-0), Diethylene Glycol Monobutyl Ether (CAS No. 112-34-5), Xylene (CAS No. 1330-20-7), and Hexamethylene Diisocyanate (CAS No. 822-06-0) mass emission calculations determining the daily emission rate in pounds per calendar day.

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)**

5. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor continuously and record daily the temperature on each oven included in FG-CoatLines. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1702(d))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification of EU-CoatLine-02 and EU-CoatLine-04 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-CoatLine-02 and EU-CoatLine-04. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-Paintbooth01 through SV-Paintbooth16* (Note: Sixteen Stacks)	36.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
2. SV-ConvOven01	18.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
3. SV-ConvOven02	12.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
4. SV-ConvOven03	12.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
5. SV-ConvOven04	12.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
6. SV-ConvOven05	18.0	36.0	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)
* Note that the diameter and height requirements listed above apply to each stack in the groupings SV-Paintbooth01 through SV-Paintbooth16.			

IX. OTHER REQUIREMENTS

1. Within 30 calendar days after the issuance of this permit, the permittee shall label each emission unit and the associated equipment. The permittee must notify the AQD District Supervisor, in writing, as to the date that the labeling was completed. This notification shall take place within 15 calendar days after the labeling has been completed. **(R 336.1702(d))**

Footnotes:

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

The following conditions apply to: FG-Cleanup

DESCRIPTION: Clean-up and purge solvents used on all five lines.

Emission Units: EU-Coatline01, EU-CoatLine02, EU-CoatLine03, EU-CoatLine04, and EU-CoatLine05

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	6.1 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Cleanup	SC VI.1, SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall recover and reclaim, recycle, or dispose of, in accordance with all applicable regulations, a minimum of 80 percent by weight of all purge solvents used for FG-Cleanup. **(R 336.1225, R 336.1702(a))**
2. The permittee shall capture all waste cleanup and purge solvents and shall store them in closed containers. The permittee shall dispose of all waste cleanup and purge solvents in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

1. The permittee shall determine the VOC content, water content and density of any cleanup and purge solvents, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1205(3), R 336.1225, R 336.1702(a))**

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 recordkeeping, reporting or notification special condition. **(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 for a period of at least five years and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall keep record of the following information on a calendar month basis for the use of purge and clean-up solvents associated with FG-Cleanup:
 - a) Gallons (with water) of each solvent used and reclaimed.
 - c) VOC content of each solvent used.
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records 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 336.1702(d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

The following conditions apply Source-Wide to: FG-Facility

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

Emission Unit ID: All Source-Wide Equipment

POLLUTION CONTROL EQUIPMENT: As mentioned in the each Emission Unit Special Conditions

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 9.0 tpy	12-month rolling time period as determined at the end of each calendar month	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. VOCs	Less than 90.0 tpy	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.3	R 336.1205(3)
4. VOCs	30.0 tpy	12-month rolling time period as determined at the end of each calendar month	All plastic parts coating lines operating per the requirements of R 336.1632(15)(a) in FG-Facility	SC VI.1, SC VI.4	R 336.1702(d)
5. Naphthalene (CAS No. 91-20-3)	1,576.8 lb/yr	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.5	R 336.1225
6. Cumene (CAS No. 98-82-8)	2,014.8 lb/yr	12-month rolling time period as determined at the end of each calendar month	FG-Facility	SC VI.1, SC VI.5	R 336.1225

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

NA

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

1. The permittee shall determine the HAP content of any coatings, reducer, thinners, and purge and cleanup solvents, *etc.* (material) as received and as applied, using manufacturer's formulation data. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311. **(R 336.1205(3))**
2. The permittee shall determine the VOC content, water content, and density of any material, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. **(R 336.1205(3))**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 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.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(3))**
3. The permittee shall keep the following information on a calendar month basis for FG-Facility:
 - a) Gallons or pounds of each VOC containing material used.
 - b) Where applicable, gallons or pounds of each VOC containing material reclaimed.
 - c) VOC content, in pounds per gallon or pounds per pound, of each VOC containing material used.
 - d) VOC emission calculations determining the monthly emission rate in tons per calendar month.
 - e) VOC emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.The permittee shall keep the records 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))**
4. The permittee shall keep the following information on a calendar day basis for all plastic parts coated in FG-Facility:
 - a) Gallons (with water) of each coating used for coating of plastic surfaces.
 - b) VOC content (with water) of each coating as applied that was used for coating of plastic surfaces.

- c) VOC mass emission calculations determining the monthly emission rate in pounds per calendar month from the coating of plastic surfaces.
- 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 from the coating of metallic surfaces.

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 336.1702(d))**

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

- a) Gallons (with water) of each coating used that contains Naphthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8).
- b) Where applicable, gallons (with water) reclaimed for each coating that contains Naphthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8).
- c) The Naphthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) content (with water) in pounds per gallon of each material used.
- d) Naphthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) mass emission calculations determining the monthly emission rate in pounds per calendar month.
- e) Naphthalene (CAS No. 91-20-3) and Cumene (CAS No. 98-82-8) mass emission calculations determining the 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)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

Footnotes:

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