

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

August 15, 2018

**PERMIT TO INSTALL
33-17B**

**ISSUED TO
Hastings Fiberglass Products**

**LOCATED AT
1301 W Green Street
Rutland Township, Michigan**

**IN THE COUNTY OF
Barry**

**STATE REGISTRATION NUMBER
P0795**

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:

July 10, 2018

DATE PERMIT TO INSTALL APPROVED:

August 15, 2018

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	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H ₂ S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO _x	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM ₁₀	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM _{2.5}	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 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
EUCLEANUP	Miscellaneous cleanup activities throughout the facility.	7-1-2018	NA
EUFINISHING	Various finishing equipment (saws, routers, sanders, grinders, dowlers). Particulate (dust) emissions from this emission unit and from EUSAWING are controlled by a common dust collector.	7-1-2018/ PTI Issuance Date	FGDUSTCOLLECTOR
EUADHESIVE	Use of adhesives at various fiberglass product assembly stations.	7-1-2018	NA
EURESINMIXING	Resin mixing operation which occurs in the vicinity of the four pultrusion molding lines. The resin batch, which consists of base resin, colorant, wetting additive, UV stabilizer, mold release, and other additives, is mixed in tanks using a mechanical mixer. The resin mixture is loaded into the resin baths with five-gallon buckets.	7-1-2018	FGPULTRUSION
EUPULTRUSION1	A pultrusion line in which reinforcing fibers are pulled through the resin bath and then a heated die which maintains the desired shape and dimensions of the final product while the thermosetting resin polymerizes. The pultrusion line will be enclosed and exhausted through a common stack (SVPULTRUSIONGEL).	7-1-2018	FGPULTRUSION
EUPULTRUSION2	A pultrusion line in which reinforcing fibers are pulled through the resin bath and then a heated die which maintains the desired shape and dimensions of the final product while the thermosetting resin polymerizes. The pultrusion line will be enclosed and exhausted through a common stack (SVPULTRUSIONGEL).	7-1-2018	FGPULTRUSION
EUPULTRUSION3	A pultrusion line in which reinforcing fibers are pulled through the resin bath and then a heated die which maintains the desired shape and dimensions of the final product while the thermosetting resin polymerizes. The pultrusion line will be enclosed and exhausted through a common stack (SVPULTRUSIONGEL).	7-1-2018	FGPULTRUSION

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUPULTRUSION4	A pultrusion line in which reinforcing fibers are pulled through the resin bath and then a heated die which maintains the desired shape and dimensions of the final product while the thermosetting resin polymerizes. The pultrusion line will be enclosed and exhausted through a common stack (SVPULTRUSIONGEL).	7-1-2018	FGPULTRUSION
EUSAWING	Once cured and cooled, the fiberglass tools and products are cut. Particulate (dust) emissions from this emission unit and from EUFINISHING are controlled by a common dust collector.	7-1-2018/ PTI Issuance Date	FGDUSTCOLLECTOR
EUGELCOATSPRAY	A manual gel coat spray booth in which fiberglass products are produced using a handheld atomized chopper gun. Particulate emissions are controlled with an exhaust filter. The gel coat cures at room temperature.	7-1-2018	FGGELCOAT
EUHANDLAYUP	Open molding area in which fiberglass mats are placed over forms and gel coat is applied by hand using rollers and brushes. The gel coat cures at room temperature.	7-1-2018	FGGELCOAT

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: EUCLEANUP

DESCRIPTION: Miscellaneous cleanup activities throughout the facility.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Acetone (CAS No. 67-64-1)	17.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUCLEANUP	SC VI.2	R 336.1224

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall handle all cleanup 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 336.1224, R 336.1225)**
2. The permittee shall capture all waste cleanup materials used in EUCLEANUP and store them in closed containers. The permittee shall dispose of all waste cleanup solvent(s), catalyst(s), resin(s), and gelcoat(s) in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224)**

IV. DESIGN/EQUIPMENT PARAMETERS

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 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224)**

2. The permittee shall keep the following information on a monthly basis for EUCLEANUP:
- a) The amount (in gallons or pounds) of acetone used.
 - b) Where applicable, gallons or pounds of acetone reclaimed.
 - c) Acetone emission calculations determining the monthly emission rate in tons per calendar month, and the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224)**

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).

The following conditions apply to: EUADHESIVE

DESCRIPTION: Use of adhesives at various fiberglass product assembly stations.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	2.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUADHESIVE	SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall handle all adhesive 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 336.1225, R 336.1702(a))**
2. The permittee shall capture all waste adhesive materials used in EUADHESIVE and store them in closed containers. The permittee shall dispose of all waste adhesive materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

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

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

3. The permittee shall keep the following information on a monthly basis for EUADHESIVE:
 - a) The amount (in gallons or pounds) of each adhesive material used.
 - b) Where applicable, gallons or pounds of each adhesive material reclaimed.
 - c) VOC content (minus water and with water) of each adhesive material as applied.
 - d) VOC emission calculations determining the monthly emission rate in tons per calendar month, and the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

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).

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
FGPULTRUSION	Four pultrusion molding lines to produce fiberglass tools and products. Operations include resin mixing and sawing of cured product. Emissions are routed to SVPULTRUSIONGEL.	EURESINMIXING, EUPULTRUSION1, EUPULTRUSION2, EUPULTRUSION3, EUPULTRUSION4,
FGGELCOAT	Gel coat operation consisting of one gel coat spray booth as well as hand layup molding. Emissions are routed to SVPULTRUSIONGEL.	EUGELCOATSPRAY, EUHANDLAYUP
FGDUSTCOLLECTOR	Operations consisting of finishing equipment (saws, routers, sanders, grinders, dowlers) and the cutting of fiberglass tools and products once they are cured and cooled. Particulate (dust) emissions from both operations are controlled by a common dust collector	EUFINISHING, EUSAWING
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grandfathered equipment and exempt equipment.	

The following conditions apply to: FGPULTRUSION

DESCRIPTION: Four pultrusion molding lines to produce fiberglass tools and products. Operations include resin mixing and sawing of cured product. Emissions are routed to SVPULTRUSIONGEL.

Emission Units: EURESINMIXING, EUPULTRUSION1, EUPULTRUSION2, EUPULTRUSION3, EUPULTRUSION4

POLLUTION CONTROL EQUIPMENT: NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (including styrene)	8.6 tpy	12-month rolling time period as determined at the end of each calendar month	FGPULTRUSION	SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

1. The VOC (including styrene) content of any resin mixture used in FGPULTRUSION shall not exceed 35.0 percent by weight as applied. **(R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall capture all waste materials (resins, additives, catalysts, mold release materials, etc.) used in FGPULTRUSION and 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))**
2. The permittee shall handle all VOC and/or HAPs containing materials in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers of each material (resins, additives, catalysts, mold release materials, etc.) covered at all times except when operator access is necessary. **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (resins, additives, catalysts, mold release materials, 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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a monthly basis for FGPULTRUSION:
 - a) The identity and amount (in pounds) of each material (resins, additives, catalysts, mold release materials, etc.) used.
 - b) VOC content, in percent by weight, of each material (resins, additives, catalysts, mold release materials, etc.) as applied.
 - c) VOC content, in percent by weight, of each resin mixture as applied.
 - d) The appropriate emission factor for each material used. (Emission factors from EPA-AP-42 Section 4.4 for Polyester Resin Plastics Production Fabrication may be used, or an alternate factor approved by the AQD District Supervisor).
 - e) VOC mass emission calculations determining the monthly emission rate in tons per calendar month, and the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

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

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 FGPULTRUSION. **(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. SVPULTRUSIONGEL	36	39	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

Footnotes:

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

The following conditions apply to: FGELCOAT

DESCRIPTION: Gel coat operation consisting of one gel coat spray booth as well as hand layup molding. Emissions are routed to SVPULTRUSIONGEL.

Emission Units: EUGELCOATSPRAY, EUHANDLAYUP

POLLUTION CONTROL EQUIPMENT: Exhaust filters for EUGELCOATSPRAY

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (including styrene and methyl methacrylate)	2.5 tpy	12-month rolling time period as determined at the end of each calendar month.	FGELCOAT	SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

1. The VOC (including styrene and methyl methacrylate) content of any gelcoat used in FGELCOAT shall not exceed 35.0 percent by weight. **(R 336.1225, R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall capture all waste gelcoats used in FGELCOAT and 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))**
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)**
3. The permittee shall handle all VOC and/or HAPs 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 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the booth associated with EUGELCOATSPRAY unless its exhaust filter is installed, maintained and operated in a satisfactory manner. **(R 336.1301, R 336.1331)**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (resins, additives, catalysts, mold release materials, 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 336.1225, R 336.1702)**
3. The permittee shall keep the following information on a monthly basis for FGGELCOAT:
 - a) The identity and amount (in pounds) of each material used.
 - b) The VOC (including styrene and methyl methacrylate) content of each gelcoat as applied.
 - c) The appropriate emission factors for each gelcoat used (The Unified Emission Factors (UEF) Table 1 for Open Molding of Composites from the American Composites Manufacturers Association (ACMA), October 2009 may be used, or an alternate factor approved by the AQD District Supervisor).
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month, and the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative format acceptable to the AQD District Supervisor. The permittee shall keep all records on file 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 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 FGGELCOAT. **(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. SVPULTRUSIONGEL	36	39	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

Footnotes:

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

The following conditions apply to: FGDUSTCOLLECTOR

DESCRIPTION: Operation consisting of finishing equipment (saws, routers, sanders, grinders, dowlers) and the cutting of fiberglass tools and products once they are cured and cooled. Particulate (dust) emissions from both operations are controlled by a common dust collector.

Emission Units: EUFINISHING, EUSAWING

POLLUTION CONTROL EQUIPMENT: Dust collector with an airflow capacity of 50,000 dscfm.

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.010 lb per 1,000 lbs exhaust gas *	Hourly	FGDUSTCOLLECTOR	SC VI.1	R 336.1331(1)(c)
* Calculated on a dry gas basis					

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate FGDUSTCOLLECTOR unless the dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**
2. The permittee shall not operate FGDUSTCOLLECTOR unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the dust collector, has been submitted within 30 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 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a differential pressure gauge in FGDUSTCOLLECTOR. **(R 336.1301, R 336.1331, R 336.1910, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall monitor and record, in a satisfactory manner, at least once per calendar day, when the dust collector is in operation and exhausting to the ambient air, the pressure drop across the fabric filter. Each entry shall include the date, time, pressure drop, and initials of the person making the record. **(R 336.1910)**
2. The permittee shall keep in a satisfactory manner, a daily record indicating if the dust collector, while in operation, is exhausted to the ambient air. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1910)**

VII. REPORTING

NA

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-DC*	54	32	40 CFR 52.21(c) & (d)

* This stack may vent horizontally when exhausting to the ambient air. The stack may also vent internally.

IX. OTHER REQUIREMENTS

NA

Footnotes:

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

The following conditions apply Source-Wide to: FGFACILITY

POLLUTION CONTROL EQUIPMENT:

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	8.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.3	R 336.1205(3)
2. Aggregate HAPs	22.4 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.3	R 336.1205(3)
3. Styrene (CAS No. 100-42-5)	6.3 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.4	R 336.1225(2)

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 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 336.1225, R 336.1299(e), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2802, 40 CFR 52.21)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3), R 336.1225(2))**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (resins, additives, catalysts, mold release materials, 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 336.1205(3), R 336.1225(2))**
3. The permittee shall keep the following information on a monthly 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 monthly emission rate of each in tons per calendar month.
 - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month.

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

4. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Gallons or pounds of each styrene (CAS No. 100-42-5) containing material used.
 - b) Where applicable, gallons or pounds of each styrene (CAS No. 100-42-5) containing material reclaimed.
 - c) Styrene (CAS No. 100-42-5) content, in pounds per gallon or pounds per pound, of each styrene (CAS No. 100-42-5) containing material used.
 - d) Styrene (CAS No. 100-42-5) emission calculations determining the monthly emission rate in tons per calendar month.
 - e) Styrene (CAS No. 100-42-5) emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance, or an alternative format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.¹ **(R 336.1225(2))**

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).