

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

October 4, 2019

PERMIT TO INSTALL
31-16C

ISSUED TO
Advance Architectural Products

LOCATED AT
3393 South M-40
Hamilton, Michigan

IN THE COUNTY OF
Allegan

STATE REGISTRATION NUMBER
P0686

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: August 6, 2019	
DATE PERMIT TO INSTALL APPROVED: October 4, 2019	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 ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	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 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 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
EUMIXING	Resin mixing operation which occurs in a mixing and material storage room separate from the pultrusion lines. A resin batch, which consists of a styrene-based resin, styrene monomer, wetting additive, initiators, mold release, catalyst and colorants, is mixed in a drum with a mechanical mixer. The drum is then covered and taken to the pultrusion lines where the resin is poured into the resin baths (cavity heads).	4-1-2015	FGPULTRUSION
EULINE1	Single cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION).	4-1-2015 / 11-6-2017	FGPULTRUSION
EULINE2	Double cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION). There is a wet area enclosure and resin drip collection system installed on each cavity head.	10-15-2015 / 11-6-2017 / TBD	FGPULTRUSION
EULINE3	Double cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION). There is a wet area enclosure and resin drip collection system installed on each cavity head.	3-24-2016 / 11-6-2017	FGPULTRUSION

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EULINE4	Double cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION). There is a wet area enclosure and resin drip collection system installed on each cavity head.	11-16-2016 / 11-6-2017 / TBD	FGPULTRUSION
EULINE5	Double cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION). There is a wet area enclosure and resin drip collection system installed on each cavity head.	11-6-2017	FGPULTRUSION
EULINE6	Single cavity head pultrusion line in which reinforcing fiber materials are pulled through a resin bath and then a series of templates which shape the coated fibers into the desired profile. The coated fibers are then drawn through a heated die which initiates an exothermic reaction and polymerizes the thermosetting resin to produce fiberglass girts. The volatile emissions are captured by an exhaust hood and vented to a common stack (SVPULTRUSION).	TBD	FGPULTRUSION
EUSAWIN G	Once cured and cooled, the fiberglass girts are cut using a cut-off saw. Particulate (dust) emissions are controlled by a small internally vented dust collector.	4-1-2015	FGPULTRUSION

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.

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
FGPULTRUSION	Production of fiberglass girts, which are horizontal members inside framed walls to hold insulation panels in place. The operation includes resin mixing, six (6) pultrusion molding lines, and cutting/sawing of the finished product. Volatile emissions from the pultrusion molding lines are captured by exhaust hoods and vented to a common stack (SVPULTRUSION).	EUMIXING, EULINE1, EULINE2, EULINE3, EULINE4, EULINE5, EULINE6, EUSAWING

**FGPULTRUSION
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Production of fiberglass girts, which are horizontal members inside framed walls to hold insulation panels in place. The operation includes resin mixing, six (6) pultrusion molding lines, and cutting/sawing of the finished product. Volatile emissions from the pultrusion molding lines are captured by exhaust hoods and vented to a common stack (SVPULTRUSION).

Emission Unit: EUMIXING, EULINE1, EULINE2, EULINE3, EULINE4, EULINE5, EULINE6, EUSAWING.

POLLUTION CONTROL EQUIPMENT

Internally vented dust collector for EUSAWING.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	9.8 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 LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Styrene (CAS No. 100-42-5)	25%, by weight, as applied	Instantaneous	FGPULTRUSION	SC VI.2	R 336.1702(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste cleanup solvent(s), catalyst(s), and resin(s) used in FGPULTRUSION 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, R 336.1702(a))**
2. The permittee shall keep closed all doors, windows, etc. of the process building while operating FGPULTRUSION, with the exception of during times of receiving and shipping materials, or building entry.¹ **(R 336.1224, R 336.1225)**
3. The permittee shall not operate EULINE2, EULINE3, EULINE4 and EULINE5 unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the wet area enclosure and resin drip collection system, 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 336.1225, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUSAWING 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 any cavity head in EULINE2, EULINE3, EULINE4 or EULINE5 unless the respective wet area enclosure and resin drip collection system is designed, installed, and operated in a satisfactory manner. Satisfactory design and operation of the wet area enclosure and resin drip collection system includes:
 - a) The enclosure must cover and enclose the open resin bath and the forming area in which reinforcements are pre-wet or wet-out and moving toward the die(s). The surfaces of the enclosure must be closed except for openings to allow material to enter and exit the enclosure.
 - b) For open bath pultrusion machines with a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 12.5 inches or less of the entrance of the radio frequency pre-heat unit. If the stock that is within 12.5 inches or less of the entrance to the radio frequency pre-heat unit has any drip, it must be enclosed. The stock exiting the radio frequency pre-heat unit is not required to be in an enclosure if the stock has no drip between the exit of the radio frequency pre-heat unit to within 0.5 inches of the entrance of the die.
 - c) For open bath pultrusion machines without a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 0.5 inches or less of the die entrance.
 - d) For pultrusion lines with pre-wet area(s) prior to direct die injection, no more than 12.5 inches of open wet stock is permitted between the entrance of the first pre-wet area and the entrance to the die. If the pre-wet stock has any drip, it must be enclosed.
 - e) The total open area of the enclosure must not exceed two times the cross-sectional area of the puller window(s) and must comply with the following requirements:
 - i) All areas that are open need to be included in the total open area calculation with the exception of access panels, doors, and/or hatches that are part of the enclosure.
 - ii) The area that is displaced by entering reinforcement or exiting product is considered open.
 - iii) Areas that are covered by brush covers are considered closed.
 - f) Open areas for level control devices, monitoring devices, agitation shafts, and fill hoses must have no more than 1.0-inch clearance.
 - g) The access panels, doors, and/or hatches that are part of the enclosure must close tightly. Damaged access panels, doors, and/or hatches that do not close tightly must be replaced.
 - h) The enclosure may not be removed from the pultrusion line, and access panels, doors, and/or hatches that are part of the enclosure must remain closed whenever resin is in the bath, except for the time period discussed in paragraph (b)(9) of this section.
 - i) The maximum length of time the enclosure may be removed from the pultrusion line or the access panels, doors, and/or hatches and may be open, is 30 minutes per 8 hour shift, 45 minutes per 12 hour shift, or 90 minutes per day if the machine is operated for 24 hours in a day. The time restrictions do not apply if the open doors or panels do not cause the limit of two times the puller window area to be exceeded. Facilities may average the times that access panels, doors, and/or hatches are open across all operating lines. In that case the average must not exceed the times shown in this paragraph. All lines included in the average must have operated the entire time period being averaged.

- j) No fans, blowers, and/or air lines may be allowed within the enclosure. The enclosure must not be ventilated.

The permittee shall keep design specifications of each enclosure on file and make them available to the Department upon request. **(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 may determine the styrene (CAS No. 100-42-5) emission factor (in lb styrene emitted per lb styrene used) from the pultrusion lines by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1224, R 336.1702)**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (i.e. resins, additives, catalysts, mold release materials, cleanup solvents, etc.), including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1702(a))**
3. The permittee shall keep the following information for each calendar month for FGPULTRUSION:
 - a) The identity and amount (in pounds) of each material (resins, additives, catalysts, mold release materials, cleanup solvents, etc.) used.
 - b) The amount of styrene (CAS No. 100-42-5) and styrene containing materials used in uncontrolled pultrusion lines (EULINE1 and EULINE6).
 - c) The amount of styrene (CAS No. 100-42-5) and styrene containing materials used in pultrusion lines controlled by a wet enclosure and resin drip collection system (EULINE2, EULINE3, EULINE4 and EULINE5).
 - d) VOC content, in percent by weight, of each material (resins, additives, catalysts, mold release materials, cleanup solvents, etc.) as applied.
 - e) The appropriate emission factor for each material used. For pultrusion molding lines an emission factor of 7.0% from Table 4.4-2 of EPA-AP-42 Section 4.4 for Polyester Resin Plastics Production Fabrication may be used. Alternatively, an emission factor determined by testing and acceptable to the AQD District Supervisor may be used.
 - f) The appropriate emission reduction credit used, if applicable. For pultrusion molding lines controlled by a wet area enclosure and resin drip collection system a 60% reduction of styrene (CAS No. 100-42-5) emissions may be used. Alternatively, an emission factor or emission reduction credit determined by testing and acceptable to the AQD District Supervisor may be used.
 - g) 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 alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**

- The permittee shall keep records of when any enclosure on EULINE2, EULINE3, EULINE4, and EULINE5 is removed or any access panels, doors, and/or hatches for any of these enclosures are open such that the requirements in SC IV.2(e) are not satisfied on 8-hour, 12-hour, and daily time periods. The records must specify the date, the enclosure affected, and how long the enclosure did not meet the requirements of SC IV.2(e), as required in SC IV.2(i). The permittee shall keep the all records on file and make them available to the Department upon request. **(R 336.1205, R 336.1225, R 336.1702)**

VII. REPORTING

- 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 EULINE6. **(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. SVPULTRUSION	43	39	R 336.1225, 40 CFR 52.21(c) & (d)

- The permittee shall discharge the exhaust gases from the dust collector portion of EUSAWING into the general in-plant environment. **(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

Internally vented dust collector for EUSAWING.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing/ Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 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	Less than 22 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)	8.7 tpy ¹	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.4	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))

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 336.1205, R 336.1225)

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material (resin, clean-up material, 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, R 336.1225)**
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 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 monthly basis for FGFACILITY:
 - a) Gallons or pounds of each styrene (CAS No. 100-42-5) containing material used.
 - b) The styrene (CAS No. 100-42-5) content, in percent by weight, of each material used.
 - c) The appropriate styrene (CAS No. 100-42-5) 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).
 - d) Styrene (CAS No. 100-42-5) emission calculations determining the monthly emission rate in tons per calendar month and tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request.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).