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

November 15, 2024

PERMIT TO INSTALL
109-13A

ISSUED TO
Andronaco Industries, Inc.

LOCATED AT
4855 Broadmoor Ave SE
Kentwood, Michigan 49512

IN THE COUNTY OF
Kent

STATE REGISTRATION NUMBER
P0361

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: **October 17, 2024**	
DATE PERMIT TO INSTALL APPROVED: **November 15, 2024**	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

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

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO_2e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H_2S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO_x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO_2	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

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

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

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

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

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

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

7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal 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
EUCOMPMOLD01	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD02	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD03	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD04	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD05	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD06	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD07	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD08	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD09	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD10	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD11	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUCOMPMOLD12	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD13	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD14	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD15	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD16	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD17	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD18	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	1-9-2014 / 11-15-2024	FGCOMPMOLDING
EUCOMPMOLD19	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD20	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD21	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD22	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD23	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD24	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUCOMPMOLD25	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD26	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD27	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD28	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD29	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD30	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD31	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD32	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUCOMPMOLD33	Compression molding machine used to form fiber-reinforced plastic or graphite reinforced plastic composite materials for the pharmaceutical, chemical, steel, wastewater and energy industries.	11-15-2024	FGCOMPMOLDING
EUHANDLAYUP	One open molding station where fiberglass and vinyl ester resins are manually applied.	11-15-2024	FGCOMPMOLDING
EUCLEANUP	Cleanup of open and closed molding operations at Plant 1.	11-15-2024	FGCOMPMOLDING FG634

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
FGCOMPMOLDING	33 compression molding machines, one open molding station, and associated cleanup operation located at Plant 1.	EUCOMPMOLD01, EUCOMPMOLD02, EUCOMPMOLD03, EUCOMPMOLD04, EUCOMPMOLD05, EUCOMPMOLD06, EUCOMPMOLD07, EUCOMPMOLD08, EUCOMPMOLD09, EUCOMPMOLD10, EUCOMPMOLD11, EUCOMPMOLD12, EUCOMPMOLD13, EUCOMPMOLD14, EUCOMPMOLD15, EUCOMPMOLD16, EUCOMPMOLD17, EUCOMPMOLD18, EUCOMPMOLD19, EUCOMPMOLD20, EUCOMPMOLD21, EUCOMPMOLD22, EUCOMPMOLD23, EUCOMPMOLD24, EUCOMPMOLD25, EUCOMPMOLD26, EUCOMPMOLD27, EUCOMPMOLD28, EUCOMPMOLD29, EUCOMPMOLD30, EUCOMPMOLD31, EUCOMPMOLD32, EUCOMPMOLD33, EUOPENMOLDING, EUCLEANUP
FG634	All industrial solvent cleaning operations source-wide, including equipment covered by other permits, grand-fathered equipment and exempt equipment, subject to the requirements of R 336.1634(4). Under R 336.1634(3)(f), the source-wide limit exempts these operations from the requirements of R 336.1634(4).	EUCLEANUP

FGCOMPMOLDING
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

33 compression molding machines, one open molding station, and associated cleanup operation located at Plant 1.

Emission Unit: EUCOMPMOLD01, EUCOMPMOLD02, EUCOMPMOLD03, EUCOMPMOLD04, EUCOMPMOLD05, EUCOMPMOLD06, EUCOMPMOLD07, EUCOMPMOLD08, EUCOMPMOLD09, EUCOMPMOLD10, EUCOMPMOLD11, EUCOMPMOLD12, EUCOMPMOLD13, EUCOMPMOLD14, EUCOMPMOLD15, EUCOMPMOLD16, EUCOMPMOLD17, EUCOMPMOLD18, EUCOMPMOLD19, EUCOMPMOLD20, EUCOMPMOLD21, EUCOMPMOLD22, EUCOMPMOLD23, EUCOMPMOLD24, EUCOMPMOLD25, EUCOMPMOLD26, EUCOMPMOLD27, EUCOMPMOLD28, EUCOMPMOLD29, EUCOMPMOLD30, EUCOMPMOLD31, EUCOMPMOLD32, EUCOMPMOLD33, EUOPENMOLDING, EUCLEANUP.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs and Acetone (CAS No. 67-64-1) combined	5.2 tpy	12-month rolling time period as determined at the end of each calendar month	FGCOMPMOLDING	SC VI.2, SC VI.3	R 336.1224, R 336.1225, R 336.1702(a)

II. MATERIAL LIMIT(S)

1. The styrene (CAS No. 100-42-5) content of the bulk molding mix used in FGCOMPMOLDING closed molding machines shall not exceed 17.6 percent by weight as applied. **(R 336.1225, R 336.1702(a))**

2. The styrene content of all resins used in FGCOMPMOLDING hand layup operations shall not exceed 45.0 percent by weight as applied. **(R 336.1225, R 336.1702(a)).**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste resins, catalysts, miscellaneous bulk molding compounds and cleanup solvents used in FGCOMPMOLDING and store them in closed containers. The permittee shall dispose of waste resins and cleanup solvents 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 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 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall use compression molding (closed molding) for the bulk molding compounds used in FGOPENMOLDING. **(R 336.1702(a))**

2. The permittee shall use hand layup, or equipment and technology with equivalent or lower styrene emission rates, for open molding operations in FGOPENMOLDING. **(R 336.1702(a))**

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, R 336.1225, R 336.1702)**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each resin, catalyst and cleanup solvent, 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)**

3. The permittee shall keep the following information for each calendar month for FGCOMPMOLDING:
   a) The identity and amount (in pounds or gallons) of each resin, catalyst and cleanup solvent used.
   b) The VOC content and acetone content, in percent by weight, of each resin and cleanup solvent as applied.
   c) The styrene content (in percent by weight) of each bulk molding compound as applied.
   d) The styrene content (in percent by weight) of each open molding resin as applied.
   e) The appropriate emission factor for each material used:
      i. The Unified Emission Factors (UEF) Table 1 for Open Molding of Composites from the American Composites Manufacturers Association (ACMA), October 2009, shall be used only for styrene and MMA emission calculations for open molding processes.
      ii. The emission factor of 3% by weight of styrene emitted (from EPA-AP-42 Section 4.4 for Polyester Resin Plastics Production Fabrication) shall be used for closed molding processes.
      iii. Mass balance shall be used for calculating emissions of cleanup solvents.
      iv. Alternate emission factors may be used with the approval of the AQD District Supervisor.
   f) VOC and acetone mass emission calculations determining the monthly emission rate in tons per calendar month.
   g) VOC and acetone 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 on file in a format acceptable to the AQD District Supervisor and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702(a))**

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).

FG634
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All industrial solvent cleaning operations source-wide, including equipment covered by other permits, grand-fathered equipment and exempt equipment, subject to the requirements of R 336.1634(4). Under R 336.1634(3)(f), the source-wide limit exempts these operations from the requirements of R 336.1634(4).

Emission Unit: EUCLEANUP plus all industrial solvent cleaning operations source-wide including equipment covered by other permits, grandfathered equipment and exempt equipment, subject to the requirements of R 336.1634(4).

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	Less than 3.0 tpy	12-month rolling time period as determined at the end of each calendar month	All industrial solvent cleaning operations source-wide, including those covered in other permits or operating exempt, which are exempted by R 336.1634(3)(f).	SC VI.2, SC VI.3	R 336.1702(d)

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 336.1702(d))**

2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each cleanup solvent, including the weight percent of each component. The data may consist of 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 336.1702(d))**

3. The permittee shall keep the following information source-wide on a monthly basis for FG634:
   a. The identity and amount (in gallons or pounds) of each cleanup solvent used.
   b. VOC content, in percent by weight, of each cleanup solvent as applied.
   c. 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(d))**

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).

FGFACILITY CONDITIONS

DESCRIPTION: The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Styrene (CAS No. 100-42-5)	8.0 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	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))**

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.[1] **(R 336.1225)**

2. The permittee shall keep the following information on a monthly basis for FGFACILITY:
   a) Gallons or pounds of each styrene containing material used.
   b) The styrene content, in percent by weight, of each material used.
   c) The appropriate styrene emission factor for each material used
      i. The Unified Emission Factors (UEF) Table 1 for Open Molding of Composites from the American Composites Manufacturers Association (ACMA), October 2009, shall be used only for styrene emission calculations for open molding processes.
      ii. The emission factor of 3% by weight of styrene emitted (from EPA-AP-42 Section 4.4 for Polyester Resin Plastics Production Fabrication) shall be used for closed molding processes.
      iii. Alternate emission factors may be used with the approval of the AQD District Supervisor.

d) Styrene 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 on file in a format acceptable to the AQD District Supervisor 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).