

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

November 29, 2022

**PERMIT TO INSTALL
150-22**

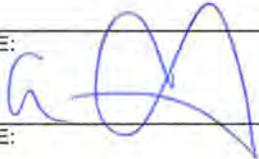
ISSUED TO
National Composites – American Recreational Products, LLC

LOCATED AT
130 South Alloy Drive
Fenton, Michigan 48430

IN THE COUNTY OF
Genesee

STATE REGISTRATION NUMBER
P1250

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: September 14, 2022	
DATE PERMIT TO INSTALL APPROVED: November 29, 2022	SIGNATURE: 
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

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

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

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO 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 condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

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

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUOPENMOLDING	One open molding spray layup booth with handheld mechanical applicators for the production of fiberglass boats and other plastic parts. Operations include the use of resins and catalysts. Particulate emissions are controlled by dry filters.	TBD	FGMACTVVVV, FGMACTWWWW
EUGELCOAT	One spray booth equipped with handheld mechanical spray applicators for the application of gelcoat materials and a shared drying area with a natural gas-fired tube dryer. Operations include the use of gelcoats and catalysts. Particulate emissions are controlled by dry filters.	TBD	FGMACTVVVV, FGMACTWWWW
EURTM	Resin transfer molding (RTM) operation to manufacture boat(s) and boat parts in a closed mold process. Operations include the use of resin and catalyst materials.	TBD	FGMACTVVVV, FGMACTWWWW
EUFOAM	Polyurethane foam production for cushions and boat floatation.	TBD	FGMACTVVVV, FGMACTWWWW
EUADHESIVE	Adhesive operations throughout the facility in open areas using mechanical guns for the manual application of methyl methacrylate (MMA) and styrene-based adhesives.	TBD	FGMACTVVVV, FGMACTWWWW
EUFINISH	Finishing operations for open molding, resin transfer molding and gelcoat operations (i.e. EUOPENMOLDING, EURTM and EUGELCOAT). Includes use of mold releases, mold cleaning compounds and repair compounds.	TBD	FGMACTVVVV, FGMACTWWWW
EUCLEANUP	Cleanup activities for open molding, resin transfer molding, gelcoat, polyurethane foam, adhesive and finishing operations (i.e. EUOPENMOLDING, EURTM, EUGELCOAT, EUFOAM, EUADHESIVE and EUFINISH). Includes use of solvents, acetone and one acetone recycling system.	TBD	FGMACTVVVV, FGMACTWWWW

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.

**EUOPENMOLDING
 EMISSION UNIT CONDITIONS**

DESCRIPTION

One open molding spray layup booth with handheld mechanical applicators for the production of fiberglass boats and other plastic parts. Operations include the use of resins and catalysts. Particulate emissions are controlled by dry filters.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

Dry filters on spray booth.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	14.5 tpy	12-month rolling time period as determined at the end of each calendar month	EUOPENMOLDING	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMITS

1. The permittee shall not exceed the styrene content limits listed in the following table for EUOPENMOLDING: **(R 336.1702(a))**

Material	Maximum Styrene Content (wt %)
a) Flame Resistant Resins	42.0
b) All Other Resins	33.5

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall capture all waste materials used in EUOPENMOLDING and store them in closed containers. The permittee shall dispose of waste materials 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 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 336.1224, R 336.1225, R 336.1702(a))**

4. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EUOPENMOLDING in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EUOPENMOLDING unless its exhaust filter is installed, maintained and operated in a satisfactory manner. **(R 336.1301, R 336.1331)**
2. The permittee shall equip and maintain EUOPENMOLDING with mechanical non-atomized applicators or technology with equivalent or lower styrene emission rates. **(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 last 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, 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 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a monthly basis for EUOPENMOLDING:
 - a) The identity and amount (in pounds) of each material used.
 - b) The styrene content (in percent by weight) of each resin used.
 - c) The VOC (including styrene) content of each material used.
 - d) The appropriate emission factors for each raw 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. Mass balance used for non-styrene, VOC emissions, or
 - iii. Alternate emission factors may be used with the approval of 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 the UEF table, 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

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. SVOOPENMOLDING	42	35	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

**EUGELCOAT
 EMISSION UNIT CONDITIONS**

DESCRIPTION

One spray booth equipped with handheld mechanical spray applicators for the application of gelcoat materials and a shared drying area with a natural gas-fired tube dryer. Operations include the use of gelcoats and catalysts. Particulate emissions are controlled by dry filters.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

Dry filters on spray booths.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	7.2 tpy	12-month rolling time period as determined at the end of each calendar month	EUGELCOAT	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

1. The permittee shall not exceed the monomer content limits listed in the following table for EUGELCOAT:
(R 336.1702(a))

Material	Maximum Styrene Content (wt %)	Maximum Methyl methacrylate (MMA) Content (wt %)
a) White Gelcoats	31.0	5.0
b) Clear Gelcoats	38.0	10.0
c) All Other Pigmented Gelcoats	40.0	10.0
d) Tooling Gelcoats	43.0	5.0

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste materials used in EUGELCOAT and store them in closed containers. The permittee shall dispose of waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
- 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)**
- 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))**

4. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EUGELCOAT in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUGELCOAT unless its exhaust filter is installed, maintained, and operated in a satisfactory manner. **(R 336.1301, R 336.1331)**
2. The permittee shall equip and maintain EUGELCOAT with mechanical applicators or technology with equivalent or lower styrene emission rates. **(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 last 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, 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 336.1225, R 336.1702(a))**

3. The permittee shall keep the following information on a monthly basis for EUGELCOAT:
 - a) The identity and amount (in pounds) of each material used.
 - b) The styrene content (in percent by weight) of each gelcoat used.
 - c) The MMA content (in percent by weight) of each gelcoat used.
 - d) The VOC (including styrene and MMA) content of each material used.
 - e) The appropriate emission factors for each raw 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. Mass balance used for non-styrene, non-MMA VOC emissions, or
 - iii. Alternate emission factors may be used with the approval of the AQD District Supervisor.
 - f) 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 the UEF table, 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

NA

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter/ Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVGELCOAT	42	35	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

**EURTM
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Resin transfer molding (RTM) operation to manufacture boat(s) and boat parts in a closed mold process. Operations include the use of resin and catalyst materials.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	1.5 tpy	12-month rolling time period as determined at the end of each calendar month	EURTM	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

- The permittee shall not exceed the styrene content limits listed in the following table for EURTM: **(R 336.1702(a))**

Material	Maximum Styrene Content (wt %)
RTM Resins	44.0

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall capture all waste materials used in EURTM and store them in closed containers. The permittee shall dispose of waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
- 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))**

3. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EURTM in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

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 last 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, 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 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a monthly basis for EURTM:
 - a) The identity and amount (in pounds) of each material used.
 - b) The styrene content (in percent by weight) of each resin used.
 - c) The VOC content (including styrene) of each material used.
 - d) The appropriate emission factors for each raw material used:
 - i. 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,
 - ii. Mass balance used for non-styrene VOC emissions, or
 - iii. Alternate emission factors may be used with the approval of 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 AP-42 emission factors, 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

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

EUFOAM EMISSION UNIT CONDITIONS
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DESCRIPTION

Polyurethane foam production for cushions and boat floatation.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use more than 20,000 pounds per 12-month rolling time period of mixed polyol/isocyanate resin two-part foam in EUFOAM. **(R 336.1225, R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials used in EUFOAM and store them in closed containers. The permittee shall dispose of waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**

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 last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1225, R 336.1702(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1225, R 336.1702(a))**
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the amount of mixed polyol/isocyanate resin two-part foam used in EUFOAM. 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

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

**EUADHESIVE
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Adhesive operations throughout the facility in open areas using mechanical guns for the manual application of methyl methacrylate (MMA) and styrene-based adhesives.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC	2.1 tpy	12-month rolling time period as determined at the end of each calendar month	EUADHESIVE	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials used in EUADHESIVE and store them in closed containers. The permittee shall dispose of waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
2. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EUADHESIVE in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EUADHESIVE with mechanical gun, non-atomizing applicators or comparable technology with equivalent transfer efficiency whenever technically feasible. **(R 336.1225, 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 last 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, 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 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a monthly basis for EUADHESIVE:
 - a) The identity and amount (in pounds) of each material used.
 - b) The VOC content (including styrene and MMA) of each material used.
 - c) The emission factor of 0.5% by weight of VOCs emitted 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 the listed emission factor, 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

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

**EUFINISH
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Finishing operations for open molding, resin transfer molding and gelcoat operations (i.e. EUOPENMOLDING, EURTM and EUGELCOAT). Includes use of mold releases, mold cleaning compounds and repair compounds.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VOC (including styrene)	4.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUFINISH	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials used in EUFINISH and store them in closed containers. The permittee shall dispose of waste materials 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 336.1225, R 336.1702(a))**
3. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EUFINISH in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

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 last 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, 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 336.1225, R 336.1702(a))**
3. The permittee shall keep the following information on a monthly basis for EUFINISH:
 - a) The identity and amount (in pounds) of each material used.
 - b) The styrene content (in percent by weight) of each material used.
 - c) The VOC content (including styrene) of each material used.
 - d) The appropriate emission factors for each raw 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. Mass balance used for non-styrene VOC emissions, or
 - iii. Alternate emission factors may be used with the approval of 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 AP-42 emission factors, 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

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

**EUCLEANUP
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Cleanup activities for open molding, resin transfer molding, gelcoat, polyurethane foam, adhesive and finishing operations (i.e. EUOPENMOLDING, EURTM, EUGELCOAT, EUFOAM, EUADHESIVE and EUFINISH). Includes use of solvents, acetone and one acetone recycling system.

Flexible Group ID: FGMACTVVVV and FGMACTWWWW.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Acetone (CAS No. 67-64-1)	10.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUCLEANUP	SC VI.2, SC VI.3	R 336.1224, R 336.1225
2. VOC	1.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUCLEANUP	SC VI.2, SC VI.3	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste materials used in EUCLEANUP and store them in closed containers. The permittee shall dispose of waste materials in an acceptable manner in compliance with all applicable state rules and federal regulations. **(R 336.1224, R 336.1702(a))**
2. No later than 45 days after permit issuance, the permittee shall submit, implement, and maintain a nuisance minimization plan (NMP) for odors. The NMP shall include at a minimum, but not be limited to:
 - a) Procedures for maintaining and operating EUCLEANUP in a manner that minimizes the release of odors to the outside air.
 - b) Procedures that shall be taken to address odor complaints.
 - c) A plan for corrective action to address any odor releases to the outside air.

If at any time the plan fails to address or inadequately addresses odor management, the permittee shall amend the plan within 30 days after such an event occurs. The permittee shall also amend the plan within 30 days if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the plan and any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 60 days of submittal, the plan or amended plan shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to minimize odors. **(R 336.1901)**

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 last 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(a))**
2. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component. The data may consist of 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(a))**
3. The permittee shall keep the following information on a monthly basis for EUCLEANUP:
 - a) The identity of each clean-up solvent used.
 - b) The amount (in gallons or pounds) of each clean-up solvent used, recovered and reclaimed.
 - d) The acetone content of each clean-up solvent used.
 - e) The VOC content of each clean-up solvent used.
 - f) 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.
 - 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 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, R 336.1225, R 336.1702(a))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

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

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGMACTVVVV	Each new or reconstructed affected source at boat manufacturing facilities as identified in 40 CFR Part 63, Subpart VVVV, 40 CFR 63.5683 and 40 CFR 63.5689. The affected source includes open molding resin and gelcoat operations including production resin, tooling resin, pigmented gelcoat, clear gelcoat, and tooling gelcoat, closed molding resin operations, resin and gelcoat mixing operations, resin and gelcoat application equipment cleaning operations, and carpet and fabric adhesive operations.	EUOPENMOLDING, EUGELCOAT, EURTM, EUADHESIVE, EUFINISH, EUCLEANUP
FGMACTWWWW	Each new or reconstructed affected source at reinforced plastic composites production facilities as identified in 40 CFR Part 63, Subpart WWWW, 40 CFR 63.5785 and 40 CFR 63.5790. Reinforced plastic composites production is defined in 40 CFR 63.5785. Reinforced plastic composites production also includes associated activities, such as cleaning, mixing, HAP-containing materials storage, and repair operations associated with the production of plastic composites.	EUOPENMOLDING, EUGELCOAT, EURTM, EUADHESIVE, EUFINISH, EUCLEANUP

**FGMACTVVVV
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Each new or reconstructed affected source at boat manufacturing facilities as identified in 40 CFR Part 63, Subpart VVVV, 40 CFR 63.5683 and 40 CFR 63.5689. The affected source includes open molding resin and gelcoat operations including production resin, tooling resin, pigmented gelcoat, clear gelcoat, and tooling gelcoat, closed molding resin operations, resin and gelcoat mixing operations, resin and gelcoat application equipment cleaning operations, and carpet and fabric adhesive operations.

Emission Units: EUOPENMOLDING, EUGELCOAT, EURTM, EUADHESIVE, EUFINISH, EUCLEANUP

POLLUTION CONTROL EQUIPMENT

Dry fabric filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Total Organic HAP	The organic HAP limit determined in accordance with 40 CFR 63.5698 (including equation 1)	12-month rolling time period as determined at the end of each calendar month.	FGMACTVVVV	SC VI.2	40 CFR 63.5698

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP Content of production resin using atomized application	28% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)
2. Organic HAP Content of production resin using non-atomized application	35% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)
3. Organic HAP Content of pigmented gelcoat	33% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)
4. Organic HAP Content of clear gelcoat	48% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
5. Organic HAP Content of tooling resin using atomized application	30% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)
6. Organic HAP Content of tooling resin using non-atomized application	39% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)
7. Organic HAP Content of tooling gelcoat	40% by weight	12-month rolling average as determined at the end of each calendar month	FGMACTVVVV	SC VI.11	40 CFR 63.5701(b)

* The material limits in this table are applicable when using the compliant materials option (40 CFR 63.5701(b)) to demonstrate compliance.

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))**

Emissions Averaging

1. When using Emissions Averaging to comply with the HAP material limits, the permittee must prepare an implementation plan as specified in 40 CFR 63.5707. **(40 CFR 63.5707)**
2. When using Emissions Averaging to demonstrate compliance with the HAP material limits, the permittee must calculate the emissions on a 12 month rolling average using Equation 1 from 40 CFR 63.5710 of Subpart VVVV at the end of the 12th month after the applicable compliance date and at the end of every subsequent month. **(40 CFR 63.5710)**
3. Use equation 2 from 40 CFR 63.5710 of Subpart VVVV at the end of each month to determine the weighted-average MACT model point value for each open molding resin and gel coat operation included in the average required above. **(40 CFR 63.5710)**
4. Use the equations from Table 3 of Subpart VVVV to determine PV_i in equation 2 from 40 CFR 63.5710 of Subpart VVVV. **(40 CFR 63.5710)**
5. Maintain records of the HAP content of each resin and gelcoat. **(40 CFR 63.5704(a)(3)(i))**

6. Maintain records of the amount of each resin and gelcoat used per month. **(40 CFR 63.5704(a)(3)(ii))**
7. Maintain records of the application method used for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with non-atomized technology. **(40 CFR 63.5704(a)(3)(iii))**

Compliant Materials

8. When using Compliant Materials to comply with the HAP limit in SC I.1 above, the permittee may use equation 1 from 40 CFR 63.5713 of Subpart VVVV to calculate the weighted average organic HAP content at the end of every month for all resins and gel coats used in each operation in the past 12 months. If all resins and gel coats used have organic HAP contents no greater than the applicable organic HAP content limits, this calculation is not necessary to demonstrate compliance. **(40 CFR 63.5713)**
9. If filled resins are used, equation 1 from 40 CFR 63.5714 of Subpart VVVV must be used to demonstrate compliance for the filled material on an as-applied basis. **(40 CFR 63.5714)**
10. Use the methods specified in 40 CFR 63.5758 to determine the organic HAP contents of resins and gel coats. **(40 CFR 63.5704(b)(1))**
11. Complete the calculations described in 40 CFR 63.5713 to show that the weighted-average organic HAP content does not exceed the limit specified in Table 2 of Subpart VVVV. **(40 CFR 63.5704(b)(2))**
12. Maintain records of the HAP content of each resin and gelcoat. **(40 CFR 63.5704(b)(3)(i))**
13. Maintain records of the application method for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with non-atomized technology. **(40 CFR 63.5704(b)(3)(ii))**
14. Maintain records of the amount of resin and gelcoat used per month. This record is not required for an operation if all resins and gelcoats used for that operation comply with the organic HAP content requirements. **(40 CFR 63.5704(b)(3)(iii))**
15. Maintain records of the calculations performed, if required to demonstrate compliance based on weighted-average organic HAP content as described in 40 CFR 63.5713. **(40 CFR 63.5704(b)(3)(iv))**

General Requirements

16. Maintain the records required by 40 CFR 63.5767 of Subpart VVVV. **(40 CFR 63.5767)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336. 1201(3))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336. 1201(3))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336. 1201(3))**
4. The permittee shall submit semiannual reporting of compliance as required in 40 CFR 63.5764. The report shall include the following: **(40 CFR 63.5764)**
 - a) The date of the report and the beginning and ending dates of the reporting period.
 - b) A description of any changes in the manufacturing process since the last compliance report.
 - c) A statement or table showing, for each regulated operation, the applicable organic HAP content limit, application equipment requirement, or MACT model point value averaging provision with which complying.

The statement or table must also show the actual weighted-average organic HAP content or weighted-average MACT model point value (if applicable) for each operation during each of the rolling 12-month averaging periods that end during the reporting period.

- d) If in compliance with the emission limits and work practice standards during the reporting period include a statement to that effect.
- e) If the permittee deviated from an emission limit or work practice standard during the reporting period, the permittee must also include:
 - i) A description of the operation involved in the deviation.
 - ii) The quantity, organic HAP content, and application method (if relevant) of the materials involved in the deviation.
 - iii) A description of any corrective action taken to minimize the deviation and actions taken to prevent it from happening again.
 - iv) A statement of whether or not the facility was in compliance for the 12-month averaging period that ended at the end of the reporting period.

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart VVVV for Boat Manufacturing. **(40 CFR Part 63, Subparts A and VVVV)**

Footnotes:

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

**FGMACTWWWW
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Each new or reconstructed affected source at reinforced plastic composites production facilities as identified in 40 CFR Part 63, Subpart WWWW, 40 CFR 63.5785 and 40 CFR 63.5790. Reinforced plastic composites production is defined in 40 CFR 63.5785. Reinforced plastic composites production also includes associated activities, such as cleaning, mixing, HAP-containing materials storage, and repair operations associated with the production of plastic composites.

Emission Units: EUOPENMOLDING, EUGELCOAT, EURTM, EUADHESIVE, EUFINISH, EUCLEANUP

POLLUTION CONTROL EQUIPMENT

Dry fabric filters

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Organic HAP from Open Molding – Corrosion Resistant and/or High Strength (CR/HS) Resin, Mechanical Application	113 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWW	SC V.1	40 CFR 63.5835(a)
2. Organic HAP from Open Molding – Non CR/HS Resin, Mechanical Application	88 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWW	SC V.1	40 CFR 63.5835(a)
3. Organic HAP from Open Molding – Tooling Resin, Mechanical Application	254 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWW	SC V.1	40 CFR 63.5835(a)
4. Organic HAP from Open Molding - Low-flame spread/low-smoke products	497 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWW	SC V.1	40 CFR 63.5835(a)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
5. Organic HAP from Open Molding – Shrinkage controlled resins	354 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
6. Organic HAP from Open Molding – Tooling gel coat	440 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
7. Organic HAP from Open Molding – White/off white pigmented gel coat	267 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
8. Organic HAP from Open Molding – Pigmented gel coat	377 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
9. Organic HAP from Open Molding – CR/HS or high performance gel coat	605 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
10. Organic HAP from Open Molding – Fire retardant gel coat	854 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)
11. Organic HAP from Open Molding – Clear production gel coat	522 lb/ton	12-month rolling average as determined at the end of each calendar month	FGMACTWWWWW	SC V.1	40 CFR 63.5835(a)

12. The permittee shall use one or a combination of the following methods to meet the standards for open molding operations in Table 3 of Subpart WWWW of Part 63. **(40 CFR 63.5810)**
- Demonstrate that an individual resin or gel coat, as applied, meets the applicable emission limit in Table 3 of Subpart WWWW of Part 63. **(40 CFR 63.5810(a))**
 - Demonstrate that, on average, the facility meets the individual organic HAP emissions limits for each unique combination of operation type and resin application method or gel coat type shown in Table 3 to this subpart that applies to the facility. **(40 CFR 63.5810(b))**
 - Demonstrate compliance with a weighted average emission limit. Demonstrate each month that the permittee meets each weighted average of the organic HAP emissions limits in Table 3 to this subpart that apply the weighted average organic HAP emissions limit for all open molding operations. **(40 CFR 63.5810(c))**

- d) Meet the organic HAP emissions limit for one application method and use the same resin(s) for all application methods of that resin type. This option is limited to resins of the same type. The resin types for which this option may be used are non-corrosion-resistant, corrosion-resistant and/or high strength, and tooling. **(40 CFR 63.5810(d))**

13. The permittee may switch between the compliance options in SC I.12.a through 12.d. When changing to an option based on a 12-month rolling average, the facility must base the average on the previous 12 months of data calculated using the compliance option the facility is changing to, unless the facility previously used an option that did not require the facility to maintain records of resin or gel coat. In this case, the facility must immediately begin collecting resin and gel coat and demonstrate compliance 12 months after changing options. **(40 CFR 63.5810)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not use cleaning solvents that contain HAP, except that styrene may be used as a cleaner in closed systems, and organic HAP containing cleaners may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin. **(40 CFR 63.5805, Table 4)**
2. For each HAP-containing materials storage operation, the permittee shall keep containers that store HAP-containing materials closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety. **(40 CFR 63.5805, Table 4)**
3. For each mixing operation, the permittee shall use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation. **(40 CFR 63.5805, Table 4)**
4. For each mixing operation, the permittee shall close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety. Vents routed to a 95 percent efficient control device are exempt from this requirement. **(40 CFR 63.5805, Table 4)**
5. For each mixing operation, the permittee shall keep the mixer covers closed while actual mixing is occurring, except when adding materials or changing covers to the mixing vessels. **(40 CFR 63.5805, Table 4)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336. 1201(3))**

1. The permittee shall determine the HAP content of any resin(s) as received and as applied, using manufacturer's formulation data and safety data sheets, using the procedures outlined in 40 CFR 63.5797 (a) through (c) as applicable. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311. **(40 CFR 63.5797)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336. 1201(3))**

1. The permittee shall conduct an initial compliance demonstration for the initial compliance period according to the requirements in 40 CFR 63.5840 and 40 CFR 63.5860. **(40 CFR 63.5840, 40 CFR 63.5860)**
2. The permittee shall demonstrate continuous compliance with the applicable standards according to the procedures outlined in 40 CFR 63.5895 and 40 CFR 63.5900. **(40 CFR 63.5895, 40 CFR 63.5900)**
3. The permittee shall keep all records required by 40 CFR 63.5915 in the format and timeframes outlined in 40 CFR 63.5920. The records must be kept onsite for a period of at least two years. The records must be kept for a total of at least five years. **(40 CFR 63.5915, 40 CFR 63.5920)**
4. The permittee shall maintain, at a minimum, the following records as of the applicable compliance date:²
 - a) A copy of each notification and report that is submitted to comply with 40 CFR Part 63 Subpart WWWW, and the documentation supporting each notification as specified in 40 CFR 63.5915(a)(1). **(40 CFR 63.5915(a))**
 - b) Records of all data, assumptions, and calculations used to determine organic HAP emission factors or average organic HAP contents for operations listed in Table 3 to 40 CFR Part 63 Subpart WWWW. **(40 CFR 63.5915(c))**
 - c) A certified statement demonstrating compliance with all applicable work practice standards identified in Table 4 of 40 CFR Part 63 Subpart WWWW. **(40 CFR 63.5915(d))**
5. The permittee shall keep records documenting that the resin(s) used in FGMACTWWW meet(s) the requirements for corrosion-resistant resin, non-corrosion-resistant resin, or tooling resin as outlined in 40 CFR 63.5935. **(40 CFR 63.5935)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336. 1201(3))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336. 1201(3))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336. 1201(3))**
4. The permittee shall submit the applicable notifications specified in, and according to the timeframes in 40 CFR 63.5905. **(40 CFR 63.5905)**
5. The permittee shall submit all applicable reports identified in, and according to the timeframes in 40 CFR 63.5910. **(40 CFR 63.5910)**
6. The permittee shall submit semiannual reporting of compliance as required in 40 CFR 63.5910(c). The report shall include the following:
 - a) Company name and address. **(40 CFR 63.5910(c)(1))**
 - b) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.5910(c)(2))**
 - c) Date of the report and beginning and ending dates of the reporting period. **(40 CFR 63.5910(c)(3))**
 - d) If there are no deviations from any organic HAP emissions limitations (emissions limit and operating limit) that apply to you, and there are no deviations from the requirements for work practice standards in Table 4 to this subpart, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period. **(40 CFR 63.5910(c)(5))**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. If the permittee produces reinforced plastic composites that are not used in fiberglass boat manufacture at the facility, the permittee may elect to have the operations covered by 40 CFR Part 63, Subpart VVVV, in lieu of 40 CFR Part 63, Subpart WWWW, if it can be demonstrated that this will not result in any organic HAP emissions increase compared to complying with 40 CFR Part 63, Subpart WWWW.² **(40 CFR 63.5787(c) and (d))**
2. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart WWWW for Reinforced Plastic Composites Production. **(40 CFR Part 63, Subparts A and WWWW)**

Footnotes:

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