

*MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT*

Federal Operating Permit Number: 121502114

For: DUFFY ELECTRIC BOAT COMPANY

**Facility: Duffy Boats – 17130 Muskrat Ave and
17260 Muskrat Ave**

Issued Pursuant to MDAQMD Regulation XII
Effective Date: June 8, 2015

This Federal Operating Permit Expires on: June 8, 2020

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer


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PERMIT REVISIONS

May 26, 2015: Renewal
(Changes made by Sheri Haggard)

October 08, 2008: Issuance of Initial Title V Permit:
(By Bill Weese)

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PART I
INTRODUCTORY INFORMATION

A. Facility Identifying Information:

Owner/Company Name: Duffy Electric Boat Company

Owner Mailing Address: Duffy Electric Boat Company
17260 Muskrat Avenue
Adelanto, California 92301

Facility Name: Duffy Boats

Facility Location: 17130 & 17260 Muskrat Avenue
Adelanto, California 92301

MDAQMD Federal Operating Permit Number: 121502114

MDAQMD Company Number: 1215

MDAQMD Facility Number: 02114 & 02953

Responsible Official: Marshall Duffield

Title: Owner

Phone Number: 760-246-1211

Facility "Site" Contacts: George Carmona

Plant Manager

Phone Number: 760-246-1211

Alfonso Figueroa

Safety Coordinator

760-246-1211

Nature of Business: Fiberglass Composite Boat Manufacturer

Electric Boat Manufacturing Operations

SIC Code: 3732 – Boat Building and Repairing

Facility Location: UTM (km) 3824.798 N / 458.600 E

B. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 121502114) is for Duffy Electric Boat Company (Duffy Boats), located at 17130 & 17260 Muskrat Avenue, in Adelanto, California. Duffy Boats manufactures fiberglass composite boats. The boat manufacturing process is comprised of process steps such as mold preparation, resin laminations, components installation, and finishing.

C. EQUIPMENT DESCRIPTION:

Permit No.	Permit Description	Operations Description
S007654	Spray Booth	Used for wood coating operations.
S007586	Spray Booth	Used for gel coat operations.
S009850	Spray Booth	Used for gel coat operations.
P005246	GS Chopper Gun #1	Used to apply resin and fiberglass.
P005247	GS Chopper Gun #2	Used to apply resin and fiberglass.
P009257	GS Chopper Gun #3	Used to apply resin and fiberglass.
P005248	Spray Gun #1	Used to spray gel coat.
P009256	Spray Gun #2	Used to spray gel coat.

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS
LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

A. **REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:**

1. A permit is required to operate this facility.
[District Rule 203]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.
[District Rule 203]
3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
[District Rule 204]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[District Rule 204]
5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.
[District Rule 206]
6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
[District Rule 207]
7. Permits are not transferable.
[District Rule 209]
8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
[District Rule 217]
9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[District Rule 219]
10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for

operation of this facility.
[District Rule 221]

11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[District Rule 301]
12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[District Rule 312]
13. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
 - (a) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
 - (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a) of this rule.[District Rule 401]
14. Owner/Operator must adhere to the provisions of District Rule 403, *Fugitive Dust*, including the following provisions:
 - (a) A person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source (does not apply to emissions emanating from unpaved roadways open to public travel or farm roads. This exclusion shall not apply to industrial or commercial facilities).
 - (b) A person shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
 - (c) A person shall not cause or allow particulate matter to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on high volume samplers at the property line for a minimum of five hours.
 - (d) A person shall take every reasonable precaution to prevent visible particulate matter from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to, the removal of particulate matter from equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.
[District Rule 403]
15. Owner/Operator shall comply with the applicable requirements of District Rule 403.2 unless an "Alternative PM₁₀ Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved.
[District Rule 403.2]
16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard

conditions, shown in District Rule 404, Table 404 (a).

- (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
- (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
- (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[District Rule 404]

17. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in District Rule 405, Table 405(a).

- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[District Rule 405]

18. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂), greater than or equal to 500 ppm by volume.

[District Rule 406]

19. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.

- (a) The provisions of this condition shall not apply to emissions from internal combustion engines.

[District Rule 407]

20. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

- (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[District Rule 408]

21. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.

[District Rule 409]

22. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
- (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
 - (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
 - (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
 - (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
 - (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.
- [District Rule 430]
23. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent. [40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[District Rule 431]
24. The provisions of Regulation IV except District Rule 402 shall not apply to experimental research operations when the following requirements are met:
- (a) The purpose of the operation is to permit investigation, experiment, or research to advance the state of knowledge or the state of the art; and
 - (b) The APCO has given written prior approval that shall include limitation of time.
- [District Rule 441]
25. The owner/operator of this facility shall meet the following emission and operating requirements:
- (a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in

excess of 540 kilograms (1,190 pounds) per month at this Facility.

- (i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:
 - a. Product reformulation or substitution;
 - b. Process changes;
 - c. Improvement of operational efficiency;
 - d. Development of innovative technology;
 - e. operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).
- (b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.
- (c) The provisions of this condition shall not apply to:
 - (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
 - (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
 - (iii) The use of pesticides including insecticides, rodenticides or herbicides.
 - (iv) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluoroethane.
 - (v) Aerosol products.
 - (vi) VOC containing materials or equipment which is not subject to VOC limits of any rule found in District Regulation XI – Source Specific Standards.
- (d) Owner/operator shall maintain daily usage records for all VOC-containing materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:
 - (i) The amount, type and VOC content of each solvent used; and
 - (ii) The method of application and substrate type; and
 - (iii) The permit units involved in the operation (if any).
- (e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442

26. Owner/Operator shall not set open outdoor fires unless in compliance with District Rule 444. Outdoor fires burned according to an existing District permit are not considered “open outdoor fires” for the purposes of District Rule 444 (reference District Rule 444(B)(10)).

[District Rule 444]

27. Owner/Operator of this facility shall comply with the *Organic Solvent Degreasing*

Operations requirements of District Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

- (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
- (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in District Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
- (c) Cold Solvent Degreasers – Freeboard Requirements:
 - (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
- (d) Cold Solvent Degreasers – Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
- (e) Cold Solvent Degreasers – Solvent Level Identification:
 - (i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
- (f) All Degreasers shall comply with the following operating requirements:
 - (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
 - (ii) Degreasers shall not be operating with any detectable solvent leaks.
 - (ii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
 - (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; or a federally or state licensed facility to treat, store or dispose of such waste; or the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
 - (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
 - (vi) Solvent carryout shall be minimized by the following methods:
 - a. Rack workload arranged to promote complete drainage

- b. Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
 - c. Retain the workload inside of the vapor zone until condensation ceases.
 - d. Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
 - e. Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
- (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
 - (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
 - (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
 - (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
 - (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
 - (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
 - (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.
- (g) District Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific District Rule 1104 shall comply with the provisions of District Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of District Rule 1104 shall be subject to the applicable provisions of District Rule 442.
 - (h) Solvent Usage Records. Owner/Operator subject to District Rule 1104 or claiming any exemption under District Rule 1104, Section (E), shall comply with the following requirements:
 - (i) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
 - a. Product name(s) used in the degreaser, and
 - b. The mix ratio of solvent compounds mixtures of solvents are used, and
 - c. VOC content of solvent or mixture of compounds as used, and

- d. The total volume of the solvent(s) used for the facility, on a monthly basis, and
- e. The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
- (ii) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
- (iii) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.
- (iv) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference District Rule 1203(D)(1)(d)(ii)).

[District Rule 1104]

28. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the applicable requirements of District Rule 1113, including the VOC limits specified in District Rule 1113, section C, Table of Standards, as listed below:

Table 1

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Limits are expressed in grams of VOC per liter of Coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the Coating container.

Coating Category	Effective, 02/24/2003	Effective, 01/01/2013
Primary Coatings		
Flat Coatings	100	50
Nonflat Coatings	150	100
Nonflat-High Gloss Coatings	250	150
Specialty Coatings		
Aluminum Roof Coatings	n/a	400
Basement Specialty Coatings	n/a	400
Bituminous Roof Coatings	300	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Concrete Curing Compounds	350	350
Concrete/Masonry Sealers	n/a	100
Driveway Sealers	n/a	50
Dry Fog Coatings	400	150
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	350
Floor Coatings	250	100
Form-Release Compounds	250	250
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings	120 _a	120 _a
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	300	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	200	100
Reactive Penetrating Sealers	n/a	350
Recycled Coatings	250	250
Roof Coatings	250	50
Rust Preventative Coatings	400	250
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	350	100
Stains	250	250
Stone Consolidants	n/a	450
Swimming Pool Coatings	340	340
Traffic Marking Coatings	150	100
Tub and Tile Refinish Coatings	n/a	420

Coating Category	Effective, 02/24/2003	Effective, 01/01/2013
Waterproofing Membranes	n/a	250
Wood Coatings	n/a	275
Wood Preservatives	350	350
Zinc-Rich Primers	n/a	340
a: Limit is expressed as VOC Actual (G)(1)(a)(ii)		

Table 2
 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Effective January 1, 2013 the coating categories in Table 2 are eliminated and will be subject to the VOC limit of the applicable category in Table 1, except as provided in Section (C)(2), (C)(3), and (C)(5) of District Rule 1113.

Limits are expressed in grams of VOC per liter of Coating thinned to the manufacturer’s maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. “Manufacturer’s maximum recommendation” means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

Coating Category	Effective 02/24/2003
Antenna Coatings	530
Antifouling Coatings	400
Clear Wood Coatings	
Clear Brushing Lacquers	680
Lacquers (including lacquer sanding sealers)	550
Sanding Sealers (other than lacquer sanding sealers)	350
Varnishes	350
Fire-Retardant Coatings:	
Clear	650
Opaque	350
Flow Coatings	420
Quick-Dry Enamels	250
Quick-Dry Primers, Sealers, and Undercoaters	200
Swimming Pool Repair and Maintenance Coatings	340
Temperature-Indicator Safety Coatings	550
Waterproofing Sealers	250
Waterproofing Concrete/Masonry Sealers	400

[District Rule 1113]

29. Owner/Operator’s use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of District Rule 1114, including the VOC limits specified in District Rule 1114, part C, Table of Standards, as listed below:(a) VOC Content of

Coatings & Adhesives

- (1) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

a. LIMITS

Grams of VOC Per Liter of Coating,
 Less Water and Less Exempt Compounds (VOC Content)

Coating				On and After 7/1/2005
				g/L (lb/gal)
Clear Sealers				275 (2.3)
Clear Topcoat				275 (2.3)
Pigmented Primers, Sealers and Undercoats				275 (2.3)
Pigmented Topcoats				275 (2.3)

b. LIMITS

Grams of VOC Per Liter of Coating,
 Less Water and Less Exempt Compounds (VOC Content)

Coating			On and After 7/1/2005
			g/L (lb/gal)
Fillers			275 (2.3)
High-Solid Stains			350 (2.9)
Inks			500 (4.2)
Mold-Seal Coatings			750 (6.3)
Multi-Colored Coatings			275 (2.3)
Low-Solids Stains, Toners and Washcoats			120 (1.0)
Adhesives			250 (2.1)

[District Rule 1114]

30. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of District Rule 1115, including the VOC limits specified in District Rule 1115, as listed below:
- (a) Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

Coating	Air Dried g/L (lb/gal)	Baked g/L (lb/gal)
General	420 (3.5)	360 (3.0)
Military Specification	420 (3.5)	360 (3.0)
Etching Filler	420 (3.5)	420 (3.5)
Solar-Absorbent	420 (3.5)	360 (3.0)
Heat-Resistant	420 (3.5)	360 (3.0)
High-Gloss	420 (3.5)	360 (3.0)
Extreme High-Gloss	420 (3.5)	360 (3.0)
Metallic	420 (3.5)	420 (3.5)
Extreme Performance	420 (3.5)	360 (3.0)
<i>Prefabricated Architectural</i>		
Component	420 (3.5)	275 (2.3)
Touch Up	420 (3.5)	360 (3.0)
Repair	420 (3.5)	360 (3.0)
Silicone-Release	420 (3.5)	420 (3.5)
<i>High Performance</i>		
Architectural	420 (3.5)	420 (3.5)
Camouflage	420 (3.5)	420 (3.5)
Vacuum-Metalizing	420 (3.5)	420 (3.5)
Mold-Seal	420 (3.5)	420 (3.5)
High-Temperature	420 (3.5)	420 (3.5)
Electric-Insulating Varnish	420 (3.5)	420 (3.5)
Pan-Backing	420 (3.5)	420 (3.5)
Pretreatment Wash Primer	420 (3.5)	420 (3.5)
Clear Coating	520 (4.3)	520 (4.3)

[District Rule 1115]

31. Owner/Operator's *Polyester Resin Operations* at this facility shall comply with the applicable requirements of District Rule 1162, including the application techniques, material requirements, and process requirements, as listed below:
- (a) Application Technique
 - (1) Except for gel coats, a person shall not apply any resin materials to an open mold surface subject to the provisions of this rule unless one of the following non-atomizing application techniques is used and operated according to the manufacturer's specifications:
 - a. Non-atomizing Spray Application technique;
 - b. Flowcoaters;
 - c. Pressure-Fed Rollers;
 - d. Resin Impregnators;
 - e. Hand Lay-Up applications; or

- f. Other non-atomizing application techniques which have transfer efficiencies at least equal to one of the above methods, and which are used in a manner that the parameters under which they were tested are permanent features of the method. Prior to their use, such application shall be approved in writing by the APCO, CARB, and the USEPA.
- (2) An operator shall not apply gel coat materials to any open mold surface subject to the provisions of this rule unless one of the following application techniques is used and operated according to the manufacturer's specifications:
 - a. Any non-atomizing application technique listed in (a), above;
 - b. Air-Assisted Airless Spray;
 - c. Electrostatic Attraction; or
 - d. High-Volume, Low-Pressure (HVLP).
- (b) Material Requirements
 - (1) A person shall not use polyester resin material in an Open Molding System that has a monomer content in excess of the limits specified in Table 1, below:

**Table 1
 Polyester Resin Materials**

Polyester Resin Material	Monomer Content
Clear Gel Coat	
For Marble Resins	40
For Other Resins	44
Boat Manufacturing	48
Pigmented Gel Coat	
White and Off-White	30
Non-White – Boat Manufacturing	33
Non-White – Other	37
Primer	28
Specialty Gel Coats	48
General Purpose Resin	
Marble Resins	10 or (32% as supplied, no fillers)
Solid Surface Resins	17
Tub/Shower Resins	24 or (35% as supplied, no fillers)
Lamination Resins	31 or (35% as supplied, no fillers)
Fire Retardant Resin	38
Corrosion Resistant and/or High Strength Resin	
Mechanical (non-atomizing)	46.2
Filament application	42
Manual application	40
Other Resins	35
Boat Manufacturing (Atomized)	28
Boat Manufacturing (Non-atomized)	35

- (2) Complying formulations shall not be thinned or diluted with any VOC containing material or changed in any manner that may increase VOC emissions after testing, but prior to or during application.
 - (3) In lieu of complying with the monomer percentage limitations in Table 1, air pollution control equipment with a capture and control system Overall Control Efficiency of at least 85 percent, as determined pursuant to subsections (E)(1)(b) and (E)(1)(d) of District Rule 1162 may be used.
 - (4) A person shall not apply to an Open Molding System any Tub/Shower Resin material unless all the applied resin material is vapor suppressed.
- (c) Process Requirements
- (1) A person shall not operate a Closed Molding System, unless the weight loss of polyester resin materials during polymerization is less than four (4) percent.

- (2) A person shall not perform a Pultrusion operation, unless wet-out baths are covered except for 18 inches from the exit of the bath to the die. The weight loss of polyester resin materials during polymerization shall be no less than three (3) percent in a pultrusion operation.
 - (d) Notwithstanding the requirements specified in section (a)(1), a person may perform touch-up and repair using a hand-held spray gun that has a container no larger than 1 quart for gel coat or resin as part of the gun.
 - (e) Any person processing polyester resin materials and any other VOC containing materials shall keep these materials in closed containers except when filling or emptying the container.
 - (f) A person shall not use VOC-containing materials for cleaning or clean-up, excluding coating stripping equipment cleaning, unless:
 - (a) The VOC content composite partial pressure is 45 mm Hg or less at a temperature of 20 degrees C, or
 - (b) The material contains 200 grams or less of VOC content per liter of material, as applied.
32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1211 (Regulation XII - *Federal Operating Permits*). [District Regulation XII]
33. Owner/Operator shall comply with the requirements of 40 CFR 63, Subpart A – *National Emission Standards for Hazardous Air Pollutants: General Provisions* and 40 CFR 63, Subpart VVVV – *National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing*. [40 CFR 63, Subpart A and VVVV]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

- 1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request. [40 CFR 70.6(a)(3)(ii)(B); District Rule 1203(D)(1)(d)(ii)]
- 2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual*. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.

[District Rule 204]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
 - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
 - (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.
 - (c) Throughput records to maintain emission inventory data required by the Consolidated Emissions Reporting Rule of 40 CFR 51, Subpart A.
[40 CFR 70.6(a)(3)(B) – *Periodic Monitoring Requirements*]
[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)]
[California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4. Owner/Operator shall submit, annually, a Compliance Certification as prescribed by District Rule 1203(F)(1) and District Rule 1208. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); District Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1); District Rule 1208]
 - (a) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); District Rule 1203(D)(1)(g)(viii)]
 - (b) Owner/Operator when submitting any Compliance Certification(s) to the MDAQMD shall contemporaneously submit such Compliance Certification(s) to USEPA, Region IX Administrator.
[40 CFR 70.6(5)(iii); District Rule 1203(D)(1)(g)(ix)]
 - (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
[District Rule 1203 (D)(1)(g)(x)]
 - (d) The annual certification period is January 1st of the previous year through December 31st of the current year, and shall be submitted with postmark no later than February 28th of each year.
[District Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, semi-annually, a *Monitoring Report of Deviations* to the APCO/District, with a copy to the USEPA, Region IX Administrator. This *Monitoring Report of Deviations* shall be certified to be true, accurate, and complete by The Responsible Official and shall include the following information and/or data:
- (a) Summary of all reportable deviations from any federally enforceable requirement in this permit.
 - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
 - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
 - (d) Summary of necessary requirements concerning use and maintenance of equipment including the installation and maintenance of monitoring equipment.
 - (e) The semi-annual reporting periods shall be submitted as follows:
 - (1) January 1st through June 30th, due with postmark no later than August 31st of each year; and,
 - (2) July 1st through December 31st, due with postmark no later than February 28th of each year.
- [1203(D)(1)(c)(i - iii); District 1203(D)(1)(d)(i); District Rule 1203(D)(1)(e)(i - ii); District Rule 1203(D)(1)(g)(v - x)]
6. Owner/Operator shall promptly report all deviations from federal operating permit requirements including, but not limited to; any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [District Rule 1203(D)(1)(e)(ii) and Rule 430(C)]
Prompt reporting shall be determined as follows:
- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District.
[District Rule 430]
 - (b) Other deviations from permit conditions not involving excess emissions of air contaminants shall be reported to the District with any required monitoring reports at least every six (6) months.
[District Rule 1203(D)(1)(e)(i)]
7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the

requirements of MDAQMD Regulation 5 (District Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with District Rule 1201(I)(3)(iii) and shall include:

- (a) A narrative description of how the facility will achieve compliance with such requirements; and
- (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and
- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.

[District Rule 1201 (I)(3)(iii); District Rule 1203 (D)(1)(e)(ii); District Rule 1203 (D)(1)(g)(v)]

8. Owner/Operator must submit all of the notifications in Table 7 of Appendix A (40 CFR 63, Subpart VVVV) that apply to this facility by the dates in the table. The notifications are described more fully in 40 CFR 63, subpart A, General Provisions, referenced in Table 8 of Appendix A (40 CFR 63, Subpart VVVV).
[40 CFR 63.5764(a)]
9. Owner/Operator must submit the first compliance report for 40 CFR 63, subpart VVVV for the period beginning 12 months after the compliance date specified for your source in Part II, Section C, condition 8 (40 CFR 63.5695) and ending on June 30 or December 31, whichever date is the first date following the end of the first 12-month period after the compliance date that is specified for your source in Part II, Section C, condition 8 (40 CFR 63.5695).
 - (a) The first compliance report must be postmarked or delivered no later than 60 calendar days after the end of the compliance reporting period specified in the paragraph above.
 - (b) Each subsequent compliance report must cover the applicable semiannual reporting period from January 1 through June 30 or from July 1 through December 31.

- (c) Each subsequent compliance report must be postmarked or delivered no later than 60 calendar days after the end of the semiannual reporting period.
[40 CFR 63.5764(b)]
10. The compliance report required by 40 CFR 63, Subpart VVVV must include the information specified below:
- (a) Company name and address.
 - (b) A statement by the Responsible Official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report.
 - (c) The date of the report and the beginning and ending dates of the reporting period.
 - (d) A description of any changes in the manufacturing process since the last compliance report.
 - (e) 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 you are 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.
 - (f) If you were in compliance with the emission limits and work practice standards during the reporting period, you must include a statement to that effect.
 - (g) If you deviated from an emission limit or work practice standard during the reporting period, you must also include the information listed in paragraphs (10)(g)(i) through (iv) of this section in the semiannual compliance report.
 - (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 you took to minimize the deviation and actions you have taken to prevent it from happening again.
 - (iv) A statement of whether or not your facility was in compliance for the 12-month averaging period that ended at the end of the reporting period.
- [40 CFR 63.5764(c)]
11. Owner/Operator must keep the records specified in paragraphs (a) through (d) of this section in addition to records specified in individual sections of 40 CFR 63, Subpart VVVV.
- (a) Owner/Operator must keep a copy of each notification and report that was submitted to comply with 40 CFR 63, Subpart VVVV.
 - (b) Owner/Operator must keep all documentation supporting any notification or report that you submitted comply with 40 CFR 63, Subpart VVVV.
 - (c) Owner/Operator must keep the records specified in paragraphs (c)(i) of this section.
 - (i) The total amounts of open molding production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used per month and the weighted-average organic HAP contents for each operation, expressed as

weight-percent. For open molding production resin and tooling resin, you must also record the amounts of each applied by atomized and nonatomized methods.

[40 CFR 63.5767]

12. Owner/Operator must keep records required by 40 CFR 63, Subpart VVVV in a readily available form so they can be easily inspected and reviewed. The Owner/Operator must keep each record for 5 years following the date that each record is generated. The Owner/Operator must keep each record on site for at least 2 years after the date that each record is generated. The Owner/Operator can keep the records offsite for the remaining 3 years. The Owner/Operator can keep the records on paper or an alternative media, such as microfilm, computer, computer disks, magnetic tapes, or on microfiche.
[40 CFR 63.5770(a)-(d)]
13. Owner/Operator must keep records of which mixing containers are subject to the resin and gel coat mixing operations of Part II, Section C, condition 16 including the results of the inspections and a description of any repairs or corrective actions taken.
[40 CFR 63.5731]
14. Owner/Operator must keep records of the monthly inspections and any repairs made to the covers of the solvent cleaning containers as required by Part II, Section C, condition 17.
[40 CFR 63.5737(c)]
15. Owner/Operator must keep the records specified in paragraphs (a) through (d) of this section to demonstrate compliance with the VOC emission limit of Part II, Section C, condition 20.
 - (a) The following information which provides the information necessary to evaluate compliance:
 - (i) The date of operation.
 - (ii) The manufacturer's name of each product.
 - (iii) The type of each product (i.e. resin, gelcoat, coating, solvent, fabric/carpet adhesive etc.)
 - (iv) The application method for each product.
 - (v) The amount used (i.e. pounds, gallons, etc.) of each product.
 - (vi) The VOC content of each product in weight/weight (i.e. pounds per gallon, grams per liter, etc.).
 - (vii) The weight (in percent) of each monomer (styrene, methyl methacrylate) for each product, if applicable.

[District Rule 1162, District Rule 1200, and District Rule 1303]
 - (b) The total amount of VOC emissions, in tons, for each calendar month. [District Rule 1200 and District Rule 1303]
 - (c) The total amount of VOC emissions, in tons, for each consecutive twelve-month period. [District Rule 1200 and District Rule 1303]
 - (d) The Owner/Operator must keep each record for 5 years following the date that each record is generated. The Owner/Operator must keep each record on site for at least 2 years after the date that each record is generated. The Owner/Operator

can keep the records offsite for the remaining 3 years. The Owner/Operator can keep the records on paper or an alternative media, such as microfilm, computer, computer disks, magnetic tapes, or on microfiche.

C. FACILITYWIDE COMPLIANCE CONDITIONS:

1. Subject to safety, security, and operational considerations, Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice, upon presentation of credentials and other documents as may be required by law.
[40 CFR 70.6(c)(2)(i); District Rule 1203(D)(1)(g)(i)]
2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); District Rule 1203(D)(1)(g)(ii)]
3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); District Rule 1203(D)(1)(g)(iii)]
4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); District Rule 1203(D)(1)(g)(iv)]
5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[District Rule 1203 (D)(1)(f)(ii)]
6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[District Rule 1201 (I)(2); District Rule 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure that operating time, including start-up, for testing each boat's internal combustion engine does not exceed one (1) hour.
[District Rule 204]

8. The Owner/Operator must comply with the standards in 40 CFR 63, Subpart VVVV by the compliance dates specified in Table 1 of Appendix A (40 CFR 63, Subpart VVVV). [40 CFR 63.5695]
9. 40 CFR 63, Subpart VVVV Emission Limits for Open Molding and Gel Coat Operations
- (a) The Owner/Operator must limit organic HAP emissions from the five open molding operations listed in paragraphs (a)(1) through (5) of this section to the emission limit specified in paragraph (b) of this section. Operations listed in paragraph (d) are exempt from this limit.
- (1) Production resin.
- (2) Pigmented gel coat.
- (3) Clear gel coat.
- (4) Tooling resin.
- (5) Tooling gel coat.
- (b) The Owner/Operator must limit organic HAP emissions from open molding operations to the limit specified by equation 1 of this section, based on a 12-month rolling average.

$$HAP\ Limit = [46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})] \quad (Eq. 1)$$

Where:

HAP Limit = total allowable organic HAP that can be emitted from the open molding operations, kilograms.

M_R = mass of production resin used in the past 12 months, excluding any materials exempt under paragraph (d) of this section, megagrams.

M_{PG} = mass of pigmented gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) of this section, megagrams.

M_{CG} = mass of clear gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) of this section, megagrams.

M_{TR} = mass of tooling resin used in the past 12 months, excluding any materials exempt under paragraph (d) of this section, megagrams.

M_{TG} = mass of tooling gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) of this section, megagrams.

- (c) The open molding emission limit is the same for both new and existing sources.
- (d) The materials specified in paragraphs (d)(1) through (3) of this section are exempt from the open molding emission limit specified in paragraph (b) of this section.
- (1) Production resins (including skin coat resins) that must meet specifications for use in military vessels or must be approved by the U.S. Coast Guard for use in the construction of lifeboats, rescue boats, and other life-saving appliances approved under 46 CFR subchapter Q or the construction of small passenger vessels regulated by 46 CFR subchapter T. Production resins for which this exemption is used must be applied with nonatomizing (non-spray) resin application equipment. The Owner/Operator must keep a record of the resins for this exemption was used.
- (2) Pigmented, clear, and tooling gel coat used for part or mold repair and touch up. The total gel coat materials included in this exemption must not

exceed 1 percent by weight of all gel coat used at your facility on a 12-month rolling-average basis. The Owner/Operator must keep a record of the amount of gel coats used per month for which this exemption is used and copies of calculations showing that the exempt amount does not exceed 1 percent of all gel coat used.

- (3) Pure, 100 percent vinylester resin used for skin coats. This exemption does not apply to blends of vinylester and polyester resins used for skin coats. The total resin materials included in the exemption cannot exceed 5 percent by weight of all resin used at your facility on a 12-month rolling-average basis. The Owner/Operator must keep a record of the amount of 100 percent vinylester skin coat resin used per month that is eligible for this exemption and copies of calculations showing that the exempt amount does not exceed 5 percent of all resin used.

[40 CFR 63.5698]

10. Options for Complying with the Open Molding Emission Limit of 40 CFR 63, Subpart VVVV: You must use one or more of the options listed in paragraphs (a) through (c) of this section to meet the emission limit in Part II, Section C, condition 9 (40 CFR 63.5698) for the resins and gel coats used in open molding operations at this facility.
 - (a) Maximum achievable control technology (MACT) model point value averaging (emissions averaging) option.
 - (1) Demonstrate that emissions from the open molding resin and gel coat operations that you average meet the emission limit in Part II, Section C, condition 9 (40 CFR 63.5698) using the procedures described in Part II, Section C, condition 13, below (40 CFR 63.5710). Compliance with this option is based on a 12-month rolling average.
 - (2) Those operations and materials not included in the emissions average must comply with either paragraph (b) or (c) of this section.
 - (b) Compliant materials option.
 - (1) Demonstrate compliance by using resins and gel coats that meet the organic HAP content requirements in Table 2 of Appendix A (40 CFR 63, Subpart VVVV). Compliance with this option is based on a 12-month rolling average.
 - (c) Add-on control option.
 - (1) Use an enclosure and add-on control device, and demonstrate that the resulting emissions meet the emission limit in Part II, Section C, condition 9 (40 CFR 63.5698). Compliance with this option is based on control device performance testing and control device monitoring.
 - (2) This facility cannot achieve compliance with the add-on control option without applying, first, for a modification to this federal operating permit and local district permits, as this facility does not currently have add-on control device(s) permitted.

[40 CFR 63.5701]

11. General Requirements for Complying with the Open Molding Emission Limit of 40 CFR 63, Subpart VVVV:

- a) Emissions averaging option. For those open molding operations and materials complying using the emissions averaging option, the Owner/Operator must demonstrate compliance by performing the steps in paragraphs (a)(1) through (5) of this section.
- (1) Use the methods specified in Part II, Section C, condition 19, below (40 CFR 63.5758) to determine the organic HAP content of resins and gel coats.
 - (2) Complete the calculations described in condition 13, below (40 CFR 63.5710) to show that the organic HAP emissions do not exceed the limit specified in Part II, Section C, condition 9 (40 CFR 63.5698).
 - (3) Keep records as specified in paragraphs (a)(3)(i) through (iv) of this section for each resin and gel coat.
 - (i) Hazardous air pollutant content.
 - (ii) Amount of material used per month.
 - (iii) Application method used for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with nonatomized technology.
 - (iv) Calculations performed to demonstrate compliance based on MACT model point values, as described in Part II, Section C, condition 13, below (40 CFR 63.5710).
 - (4) Prepare and submit the implementation plan described in in Part II, Section C, condition 12, below (40 CFR 63.5707) to the Administrator and keep it up to date.
 - (5) Submit semiannual compliance reports to the Administrator as specified in Part II, Section B, condition 9 (40 CFR 63.5764).
- (b) Compliant materials option. For each open molding operation complying using the compliant materials option, you must demonstrate compliance by performing the steps in paragraphs (b)(1) through (4) of this section.
- (1) Use the methods specified in Part II, Section C, condition 19, below (40 CFR 63.5758) to determine the organic HAP content of resins and gel coats.
 - (2) Complete the calculations described in Part II, Section C, condition 14 (40 CFR 63.5713) to show that the weighted-average organic HAP content does not exceed the limit specified in Table 2 of Appendix A (40 CFR 63, Subpart VVVV).
 - (3) Keep records as specified in paragraphs (b)(3)(i) through (iv) of this section for each resin and gel coat.
 - (i) Hazardous air pollutant content.
 - (ii) Application method for production resin and tooling resin. This record is not required if all production resins and tooling resins are applied with nonatomized technology.
 - (iii) Amount of material used per month. This record is not required for an operation if all materials used for that operation comply with the organic HAP content requirements.
 - (iv) Calculations performed, if required, to demonstrate compliance based on weighted-average organic HAP content as described in Part II, Section C, condition 14 (40 CFR 63.5713).

- (4) Submit semiannual compliance reports to the Administrator as specified in Part II, Section B, condition 9 (40 CFR 63.5764).

[40 CFR 63.5704]

12. Implementation Plan for Open Molding Operations for 40 CFR 63, Subpart VVVV:

- (a) You must prepare an implementation plan for all open molding operations for which you comply by using the emissions averaging option described in condition 11 (40 CFR 63.5704(a)).
- (b) The implementation plan must describe the steps you will take to bring the open molding operations covered by this subpart into compliance. For each operation included in the emissions average, your implementation plan must include the elements listed in paragraphs (b)(1) through (3) of this section.
 - (1) A description of each operation included in the average.
 - (2) The maximum organic HAP content of the materials used, the application method used (if any atomized resin application methods are used in the average), and any other methods used to control emissions.
 - (3) Calculations showing that the operations covered by the plan will comply with the open molding emission limit specified in Part II, Section C, condition 9 (40 CFR 63.5698).
- (c) You must submit the implementation plan to the District with the notification of compliance status specified in Part II, Section B, condition 8 (40 CFR 63.5761).
- (d) You must keep the implementation plan on site and provide it to the District when asked.
- (e) If you revise the implementation plan, you must submit the revised plan with your next semiannual compliance report specified in Part II, Section B, condition 9 (40 CFR 63.5764).

[40 CFR 63.5707]

13. 40 CFR 63, Subpart VVVV Compliance Demonstration Using Emissions Averaging:

- (a) Compliance using the emissions averaging option is demonstrated on a 12-month rolling-average basis and is determined at the end of every month (12 times per year). The first 12-month rolling-average period begins on the compliance date specified in Part II, Section C, condition 8 (40 CFR 63.5695).
- (b) At the end of the twelfth month after your compliance date and at the end of every subsequent month, use equation 1 of this section to demonstrate that the organic HAP emissions from those operations included in the average do not exceed the emission limit in Part II, Section C, condition 9 (40 CFR 63.5698) calculated for the same 12-month period. (Include terms in equation 1 of Part II, Section C, condition 9 (40 CFR 63.5698) and equation 1 of this section for only those operations and materials included in the average.)

$$HAP \text{ emissions} = [(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})] \quad (Eq. 1)$$

Where:

HAP emissions = Organic HAP emissions calculated using MACT model point values for each operation included in the average, kilograms.

- PV_R = Weighted-average MACT model point value for production resin used in the past 12 months, kilograms per megagram.
- M_R = Mass of production resin used in the past 12 months, megagrams.
- PV_{PG} = Weighted-average MACT model point value for pigmented gel coat used in the past 12 months, kilograms per megagram.
- M_{PG} = Mass of pigmented gel coat used in the past 12 months, megagrams.
- PV_{CG} = Weighted-average MACT model point value for clear gel coat used in the past 12 months, kilograms per megagram.
- M_{CG} = Mass of clear gel coat used in the past 12 months, megagrams.
- PV_{TR} = Weighted-average MACT model point value for tooling resin used in the past 12 months, kilograms per megagram.
- M_{TR} = Mass of tooling resin used in the past 12 months, megagrams.
- PV_{TG} = Weighted-average MACT model point value for tooling gel coat used in the past 12 months, kilograms per megagram.
- M_{TG} = Mass of tooling gel coat used in the past 12 months, megagrams.
- (c) At the end of every month, use equation 2 of this section to compute the weighted-average MACT model point value for each open molding resin and gel coat operation included in the average.

$$PV_{OP} = \frac{\sum_{i=1}^n (M_i PV_i)}{\sum_{i=1}^n (M_i)} \quad (Eq. 2)$$

Where:

- PV_{OP} = weighted-average MACT model point value for each open molding operation (PV_R , PV_{PG} , PV_{CG} , PV_{TR} , and PV_{TG}) included in the average, kilograms of HAP per megagram of material applied.
- M_i = mass of resin or gel coat i used within an operation in the past 12 months, megagrams.
- n = number of different open molding resins and gel coats used within an operation in the past 12 months.
- PV_i = the MACT model point value for resin or gel coat i used within an operation in the past 12 months, kilograms of HAP per megagram of material applied.
- (d) The Owner/Operator must use the equations in Table 3 of Appendix A (40 CFR 63, Subpart VVVV) to calculate the MACT model point value (PV_i) for each resin and gel coat used in each operation in the past 12 months.
- (e) If the organic HAP emissions, as calculated in paragraph (b) of this section, are less than the organic HAP limit calculated in Part II, Section C, condition 9(b) (40 CFR 63.5698) for the same 12-month period, then you are in compliance with the emission limit in Part II, Section C, condition 9 (40 CFR 63.5698) for those operations and materials included in the average.

[40 CFR 63.5710]

14. 40 CFR 63, Subpart VVVV Compliance Demonstration Using Compliant Materials:
- (a) Compliance using the organic HAP content requirements listed in Table 2 of Appendix A (40 CFR 63, Subpart VVVV) is based on a 12-month rolling average that is calculated at the end of every month. The first 12-month rolling-average period begins on the compliance date specified in Part II, Section C, condition 8 (40 CFR 63.5695). If you are using filled material (production resin or tooling resin), you must comply according to the procedure described in Part II, Section C, condition 15 (40 CFR 63.5714).
 - (b) At the end of the twelfth month after your compliance date and at the end of every subsequent month, review the organic HAP contents of the resins and gel coats used in the past 12 months in each operation. If all resins and gel coats used in an operation have organic HAP contents no greater than the applicable organic HAP content limits in Table 2 to 40 CFR 63, Subpart VVVV, then you are in compliance with the emission limit specified in Part II, Section C, condition 9 (40 CFR 63.5698) for that 12-month period for that operation. In addition, you do not need to complete the weighted-average organic HAP content calculation contained in paragraph (c) of this section for that operation.
 - (c) At the end of every month, you must use equation 1 of this section to calculate the weighted-average organic HAP content for all resins and gel coats used in each operation in the past 12 months.

$$\text{Weighted-Average HAP Content (\%)} = \frac{\sum_{i=1}^n (M_i \text{ HAP}_i)}{\sum_{i=1}^n (M_i)} \quad (\text{Eq. 1})$$

Where:

M_i = mass of open molding resin or gel coat i used in the past 12 months in an operation, megagrams.

HAP_i = Organic HAP content, by weight percent, of open molding resin or gel coat i used in the past 12 months in an operation. Use the methods in Part II, Section C, condition 19 (40 CFR 63.5758) to determine organic HAP content.

n = number of different open molding resins or gel coats used in the past 12 months in an operation.

- (d) If the weighted-average organic HAP content does not exceed the applicable organic HAP content limit specified in Table 2 of Appendix A (40 CFR 63, Subpart VVVV), then the facility is in compliance with the emission limit specified in Part II, Section C, condition 9, (40 CFR 63.5698).

[40 CFR 63.5713]

15. 40 CFR 63, Subpart VVVV Compliance Demonstration for Filled Resins:

- (a) If this facility is using a filled production resin or filled tooling resin, you must demonstrate compliance for the filled material on an as-applied basis using equation 1 of this section.

$$PV_F = PV_u \times \frac{(100 - \% \text{ Filler})}{100} \quad (\text{Eq. 1})$$

Where:

PV_F = The as-applied MACT model point value for a filled production resin or tooling resin, kilograms organic HAP per megagram of filled material.

PV_u = The MACT model point value for the neat (unfilled) resin, before filler is added, as calculated using the formulas in Table 3 of Appendix A (40 CFR 63, Subpart VVVV).

% Filler = The weight-percent of filler in the as-applied filled resin system.

- (b) If the filled resin is used as a production resin and the value of PV_F calculated by equation 1 of this section does not exceed 46 kilograms of organic HAP per megagram of filled resin applied, then the filled resin is in compliance.
- (c) If the filled resin is used as a tooling resin and the value of PV_F calculated by equation 1 of this section does not exceed 54 kilograms of organic HAP per megagram of filled resin applied, then the filled resin is in compliance.
- (d) If this facility is including a filled resin in the emissions averaging procedure described in Part II, Section C, condition 13 (40 CFR 63.5710), then use the value of PV_F calculated using equation 1 of this section for the value of PV_i in equation 2 of Part II, Section C, condition 13 (40 CFR 63.5710).

[40 CFR 63.5714]

16. 40 CFR 63, Subpart VVVV Standards for Resin and Gel Coat Mixing Operations:

- (a) All resin and gel coat mixing containers with a capacity equal to or greater than 208 liters, including those used for on-site mixing of putties and polyputties, must have a cover with no visible gaps in place at all times.
- (b) The work practice standard in paragraph (a) of this section does not apply when material is being manually added to or removed from a container, or when mixing or pumping equipment is being placed in or removed from a container.
- (c) To demonstrate compliance with the work practice standard in paragraph (a) of this section, you must visually inspect all mixing containers subject to this standard at least once per month. The inspection should ensure that all containers have covers with no visible gaps between the cover and the container, or between the cover and equipment passing through the cover.
- (d) The Owner/Operator must keep records of which mixing containers are subject to this standard and the results of the inspections, including a description of any repairs or corrective actions taken.

[40 CFR 63.5731]

17. 40 CFR 63, Subpart VVVV Standards for Resin and Gel Coat Application Cleaning Operations:

- (a) For routine flushing of resin and gel coat application equipment (e.g., spray guns, flowcoaters, brushes, rollers, and squeegees), the owner/operator must use a cleaning solvent that contains no more than 5 percent organic HAP by weight. For removing cured resin or gel coat from application equipment, no organic HAP content limit applies.

[40 CFR 63.5734(a)]

- (b) Owner/operator must store organic HAP-containing solvents used for removing cured resin or gel coat in containers with covers. The covers must have no visible

gaps and must be in place at all times, except when equipment to be cleaned is placed in or removed from the container. On containers with a capacity greater than 7.6 liters, the distance from the top of the container to the solvent surface must be no less than 0.75 times the diameter of the container. Containers that store organic HAP-containing solvents used for removing cured resin or gel coat are exempt from the requirements of 40 CFR part 63, subpart T. Cured resin or gel coat means resin or gel coat that has changed from a liquid to a solid.

[40 CFR 63.5734(b)]

- (c) The Owner/Operator must demonstrate compliance with the resin and gel coat application equipment cleaning standards as required below:
 - (i) Determine and record the organic HAP content of the cleaning solvents subject to the standards specified in Part II, Section C, condition 17 (40 CFR 63.5734) using the methods specified in Part II, Section C, condition 19 (40 CFR 63.5758).
[40 CFR 63.5737(a)]
 - (ii) If this facility recycles cleaning solvents on site, you may use documentation from the solvent manufacturer or supplier or a measurement of the organic HAP content of the cleaning solvent as originally obtained from the solvent supplier for demonstrating compliance, subject to the conditions in Part II, Section C, condition 19 (40 CFR 63.5758) for demonstrating compliance with organic HAP content limits.
[40 CFR 63.5737(b)]
 - (iii) At least once per month, the owner/operator must visually inspect any containers holding organic HAP-containing solvents used for removing cured resin and gel coat to ensure that the containers have covers with no visible gaps. Keep records of the monthly inspections and any repairs made to the covers.
[40 CFR 63.5737(c)]

18. 40 CF 63, Subpart VVVV Standards for Carpet and Fabric Adhesive Operations:

- (a) Owner/Operator must use carpet and fabric adhesives that contain no more than 5 percent organic HAP by weight.
- (b) To demonstrate compliance with the emission limit in paragraph (a) of this section, the owner/operator must determine and record the organic HAP content of the carpet and fabric adhesives using the methods in Part II, Section C, condition 19 (40 CFR 63.5758).

[40 CFR 63.5740]

19. Organic HAP Content:

- (a) Determination of the organic HAP content for each material used in open molding resin and gel coat operations and/or carpet and fabric adhesive operations shall be determined using one of the options in paragraphs (a)(1) through (6) of this section:
 - (1) Method 311 (appendix A to 40 CFR part 63). Owner/Operator may use Method 311 for determining the mass fraction of organic HAP. Use the

procedures specified in paragraphs (a)(1)(i) and (ii) of this section when determining organic HAP content by Method 311.

- (i) Include in the organic HAP total each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, you do not need to include it in the organic HAP total. Express the mass fraction of each organic HAP you measure as a value truncated to four places after the decimal point (for example, 0.1234).
 - (ii) Calculate the total organic HAP content in the test material by adding up the individual organic HAP contents and truncating the result to three places after the decimal point (for example, 0.123).
- (2) Method 24 (appendix A to 40 CFR part 60). Owner/Operator may use Method 24 to determine the mass fraction of non-aqueous volatile matter of aluminum coatings and use that value as a substitute for mass fraction of organic HAP.
 - (3) ASTM D1259–85 (Standard Test Method for Nonvolatile Content of Resins). Owner/Operator may use ASTM D1259–85 (available for purchase from ASTM) to measure the mass fraction of volatile matter of resins and gel coats for open molding operations and use that value as a substitute for mass fraction of organic HAP.
 - (4) Alternative method. Owner/Operator may use an alternative test method for determining mass fraction of organic HAP if you obtain prior approval by the District. You must follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval.
 - (5) Information from the supplier or manufacturer of the material. Owner/Operator may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (4) of this section, such as manufacturer's formulation data, according to paragraphs (a)(5)(i) through (iii) of this section.
 - (i) Include in the organic HAP total each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, you do not have to include it in the organic HAP total.
 - (ii) If the organic HAP content is provided by the material supplier or manufacturer as a range, then you must use the upper limit of the range for determining compliance. If a separate measurement of the total organic HAP content using the methods specified in paragraphs (a)(1) through (4) of this section exceeds the upper limit of the range of the total organic HAP content provided by the

material supplier or manufacturer, then you must use the measured organic HAP content to determine compliance.

(iii) If the organic HAP content is provided as a single value, you may assume the value is a manufacturing target value and actual organic HAP content may vary from the target value. If a separate measurement of the total organic HAP content using the methods specified in paragraphs (a)(1) through (4) of this section is less than 2 percentage points higher than the value for total organic HAP content provided by the material supplier or manufacturer, then you may use the provided value to demonstrate compliance. If the measured total organic HAP content exceeds the provided value by 2 percentage points or more, then you must use the measured organic HAP content to determine compliance.

(6) Solvent blends. Solvent blends may be listed as single components for some regulated materials in certifications provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP content of the materials. When detailed organic HAP content data for solvent blends are not available, owner/operator may use the values for organic HAP content that are listed in Table 5 or 6 of Appendix A (40 CFR 63, Subpart VVVV). You may use Table 6 of Appendix A (40 CFR 63, Subpart VVVV) only if the solvent blends in the materials you use do not match any of the solvent blends in Table 5 of Appendix A (40 CFR 63, Subpart VVVV) and you know only whether the blend is either aliphatic or aromatic. However, if test results indicate higher values than those listed in Table 5 or 6 of Appendix A (40 CFR 63, Subpart VVVV), then the test results must be used for determining compliance.

[40 CFR 63.5758(a)]

20. The total amount of VOC containing compounds and organic solvents as defined in District Rule 102 that can be released to the atmosphere from this facility (and any adjoining facility under common ownership and belonging to the same industrial grouping) shall not exceed 20 tons per year, calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. Increasing this limit will make the combined facility major for VOC, triggering offsets and BACT review. Records demonstrating compliance with this condition shall be maintained pursuant to Part II, Section B, condition 15.

[District Rule 1200 and District Rule 1303]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS
LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

- A. The following operating conditions apply to the equipment listed below:**
- **SPRAY BOOTH, District Permit S007586**
 - **SPRAY BOOTH, District Permit S007654**
 - **SPRAY BOOTH, District Permit S009850**
1. This equipment, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 204]
 2. All coatings, diluents, thinners, solvents, polyester resin materials, application methods, and record keeping, shall comply with District Rules 442 and 1162 in their entirety. These rules pertain to Usage of Solvents and Polyester Resin Operations, respectively.
 3. Discharge filters shall be installed and maintained in a tightly-mounted and dimensionally stable condition, free of excessive deposits or interference with airflow passages. The pressure drop across the discharge filters shall be within the range specified by the manufacturer and as measured by installed manometer.
[District Rule 1302(C)(2)]
 4. The total amount of VOC containing compounds and organic solvents as defined in District Rule 102 that can be released to the atmosphere from this facility (and any adjoining facility under common ownership and belonging to the same industrial grouping) shall not exceed 20 tons per year, calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. Increasing this limit will make the combined facility major for VOC, triggering offsets and BACT review. Records demonstrating compliance with this condition shall be maintained pursuant to Part II, Section B, condition 15 of the Federal Operating Permit, as described in condition 5, below.
[District Rule 1303]
 5. Owner/Operator must keep the records specified in paragraphs (a) through (d) of this section to demonstrate compliance with the VOC emission limit of Part II, Section C, condition 20 of the Federal Operating Permit, as described in condition 4, above.
 - (a) The following information which provides the information necessary to evaluate

compliance:

- (i) The date of operation.
 - (ii) The manufacturer's name of each product.
 - (iii) The type of each product (i.e. resin, gelcoat, coating, solvent, fabric/carpet adhesive etc.)
 - (iv) The application method for each product.
 - (v) The amount used (i.e. pounds, gallons, etc.) of each product.
 - (vi) The VOC content of each product in weight/weight (i.e. pounds per gallon, grams per liter, etc.).
 - (vii) The weight (in percent) of each monomer (styrene, methyl methacrylate) for each product, if applicable. [District Rule 1162, District Rule 1200 and District Rule 1303]
- (b) The total amount of VOC emissions, in tons, for each calendar month. [District Rule 1303]
 - (c) The total amount of VOC emissions, in tons, for each consecutive twelve-month period. [District Rule 1303]
 - (d) The Owner/Operator must keep each record for 5 years following the date that each record is generated. The Owner/Operator must keep each record on site for at least 2 years after the date that each record is generated. The Owner/Operator can keep the records offsite for the remaining 3 years. The Owner/Operator can keep the records on paper or an alternative media, such as microfilm, computer, computer disks, magnetic tapes, or on microfiche.
6. This facility is subject to 40 CFR 63, Subpart VVVV - National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing. This facility must comply with the requirements of 40 CFR 63, Subpart VVVV, as applicable.
 7. This facility is classified as a Major Facility pursuant to District Rule 1201 as it has the potential to emit 10 tons per year of the Hazardous Air Pollutant of Styrene; therefore, this facility is required to meet the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661-7661f). As such, this facility must comply with District Regulation XII - Federal Operating Permits and the associated issued Federal Operating Permit.
- B. The following operating conditions apply to the equipment listed below:**
- **GS CHOPPER GUN #1, District Permit P005247**
 - **GS CHOPPER GUN #2, District Permit P005247**
 - **GS CHOPPER GUN #3, District Permit P009257**
 - **AIRLESS RESIN SPRAYER #1, District Permit P005248**
 - **AIRLESS RESIN SPRAYER #2, District Permit P009256**
1. This equipment, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum

emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 204]

2. All coatings, diluents, thinners, solvents, polyester resin materials, application methods, and record keeping, shall comply with District Rules 442 and 1162 in their entirety. These rules pertain to Usage of Solvents and Polyester Resin Operations, respectively.
3. The total amount of VOC containing compounds and organic solvents as defined in District Rule 102 that can be released to the atmosphere from this facility (and any adjoining facility under common ownership and belonging to the same industrial grouping) shall not exceed 20 tons per year, calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. Increasing this limit will make the combined facility major for VOC, triggering offsets and BACT review. Records demonstrating compliance with this condition shall be maintained pursuant to Part II, Section B, condition 15 of the Federal Operating Permit, as described in condition 5, below.
[District Rule 1303]
4. Owner/Operator must keep the records specified in paragraphs (a) through (d) of this section to demonstrate compliance with the VOC emission limit of Part II, Section C, condition 20 of the Federal Operating Permit, as described in condition 4, above.
 - (a) The following information which provides the information necessary to evaluate compliance:
 - (i) The date of operation.
 - (ii) The manufacturer's name of each product.
 - (iii) The type of each product (i.e. resin, gelcoat, coating, solvent, fabric/carpet adhesive etc.)
 - (iv) The application method for each product.
 - (v) The amount used (i.e. pounds, gallons, etc.) of each product.
 - (vi) The VOC content of each product in weight/weight (i.e. pounds per gallon, grams per liter, etc.).
 - (vii) The weight (in percent) of each monomer (styrene, methyl methacrylate) for each product, if applicable. [District Rule 1162 and District Rule 1303]
 - (b) The total amount of VOC emissions, in tons, for each calendar month. [District Rule 1303]
 - (c) The total amount of VOC emissions, in tons, for each consecutive twelve-month period. [District Rule 1303]
 - (d) The Owner/Operator must keep each record for 5 years following the date that each record is generated. The Owner/Operator must keep each record on site for at least 2 years after the date that each record is generated. The Owner/Operator can keep the records offsite for the remaining 3 years. The Owner/Operator can keep the records on paper or an alternative media, such as microfilm, computer, computer disks, magnetic tapes, or on microfiche.

5. This facility is subject to 40 CFR 63, Subpart VVVV - National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing. This facility must comply with the requirements of 40 CFR 63, Subpart VVVV, as applicable.

6. This facility is classified as a Major Facility pursuant to District Rule 1201 as it has the potential to emit 10 tons per year of the Hazardous Air Pollutant of Styrene; therefore, this facility is required to meet the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661-7661f). As such, this facility must comply with District Regulation XII - Federal Operating Permits and the associated issued Federal Operating Permit.

PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); District Rule 1203(D)(1)(f)(i)]
2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); District Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); District Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); District Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); District Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); District Rule 1203(D)(1)(f)(vi)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, terminating, or determining compliance with the Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); District Rule 1203(D)(1)(f)(vii)]
8. Owner/Operator shall furnish to qualified District, CARB or EPA personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.

[40 CFR 70.6(a)(6)(v); District Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); District Rule 1203(D)(1)(d)(ii)]
10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); District Rule 1203(D)(1)(f)(ix)]
11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); District Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that “only” Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); District Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); District Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); District Rule 1203(G)(3)(b)]
15. This facility is not subject to any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); District Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[40 CFR 70.6(f)(3)(iv); District Rule 1203(G)(3)(d)]
17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[40 CFR 70.4(b)(12)(ii)(B); District Rule 1203(G)(3)(e)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.
[40 CFR 70.4(b)(14)(iii); District Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); District Rule 1203 (G)(3)(g)]
20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]
21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

Owner/operator individual State/District Permits are already conditioned to allow owner/operator-wide emissions cap and internal netting. Further, the conditions of these State/District level permits are listed within Part III of this Title V Permit. This owner/operator State/District emissions cap is federally enforceable under the conditions of this Title V Permit.

Owner/operator must comply with these already listed conditions and keep records required for a period of five (5) years from the date the data is generated, and made available to District, State or federal personnel on request.

B. OFF PERMIT CHANGES:

1. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
 - (a) Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of District Rule 219; and
 - (i) The proposed change is not:
 - a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See District Rule 1203(E)(1)(c)(i)d.]*
 - b. A modification under Title I of the Federal Clean Air Act; or
 - c. A modification subject to Regulation XIII; and *[See District Rule 1203(E)(1)(c)(i) d.]*
 - d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See District Rule 1203(E)(1)(c)(i)c.]*
 - e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See District Rule 1203(E)(1)(c)(i)e.]*
2. Procedure for “Off Permit” Changes
 - (a) If a proposed “Off Permit Change” qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:
 - (i) Permittee shall apply for an Authority To Construct permit pursuant to the provisions of District Regulation II. *[See District Rule 1203(E)(1)(c)(i)b.]*
 - (ii) In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
 - a. A notification that this application is also an application for an

“Off Permit” Change pursuant to this condition; and *[See District Rule 1203(E)(1)(c)(i)b.]*

- b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See District Rule 1203(E)(1)(c)(i)b.]*
 - c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See District Rule 1203(E)(1)(c)(i)c.]*
 - (iii) Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See District Rule 1203(E)(1)(c)(i)a.]*
 - (b) Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See District Rule 1203(E)(1)(c)(i)a. and g.]*
 - (c) Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)f.]*
 - (d) Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See District Rule 1203(E)(1)(c)(i)f.]*
3. Other Requirements:
- (a) The provisions of District Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.
 - (b) The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]* [District Rule 1203(E)(1)(c)]

PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. CONVENTIONS

The following referencing conventions are used in this federal operating permit:

- 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS)
- 40 CFR Part 60, Appendix F, Quality Assurance Procedures
- 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
- 40 CFR Part 61, Subpart M, National Emission Standards for Asbestos
- 40 CFR Part 63, National Emission Standards For Hazardous Air Pollutants For Affected Source Categories
- 40 CFR Part 72, Permits Regulation (Acid Rain Program)
- 40 CFR Part 73, Sulfur Dioxide Allowance System
- 40 CFR Part 75, Continuous Emission Monitoring
- 40 CFR Part 75, Subpart D, Missing Data Substitution Procedures
- 40 CFR Part 75, Appendix B, Quality Assurance and Quality Control Procedures
- 40 CFR Part 75, Appendix C, Missing Data Estimating Procedures
- 40 CFR Part 75, Appendix D, Optional SO₂ Emissions Data Protocol
- 40 CFR Part 75, Appendix F, Conversion Procedures
- 40 CFR Part 75, Appendix G, Determination of CO₂ Emissions

B. OTHER CONVENTIONS:

1. Unless otherwise noted, a “day” shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. ABBREVIATIONS

Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horsepower
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO ₂carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)

MD	Mojave Desert Air Quality Management District (formed July 1993)
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NH ₃ammonia
NMOC	non-methane organic compounds
NO _x oxides of nitrogen
NO ₂ nitrogen dioxide
O ₂	oxygen
pH	pH (acidity measure of solution)
PM ₁₀	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO _x	oxides of sulfur
SO ₂	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

PART VII DISTRICT SIP HISTORY AND CITATIONS

A. *District Rule SIP History*

1. For Rule SIP History including approval, pending approval, etc, see:
<http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=45>

B. *District Rule SIP Citations*

1. District Rule SIP Citations are on the following pages.

District Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
203	<i>Permit to Operate</i>	1/7/77	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
204	<i>Permit Conditions</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
206	<i>Posting of Permit to Operate</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
207	<i>Altering or Falsifying of Permit</i>	1/9/76	[SIP: Approved 11/09/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C)]	Y	
209	<i>Transfer and Voiding of Permit</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	

217	<i>Provision for Sampling And Testing Facilities</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
218	<i>Stack Monitoring</i>	7/25/79	[SIP: Approved 9/28/81, 46 FR 47451, 40 CFR 52.220(c)(65)(ii)]	Y	
219	<i>Equipment Not Requiring a Written Permit</i>	SB - 6/6/77 RC - 9/4/81	SB - [SIP: Approved 11/9/78, 43 FR, 52237, 40 CFR 52.220(c)(31)(vi)(C), 40 CFR 52.220(c)(32)(iv)(C), and 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 7/6/82, 47 FR 29231, 40 CFR 52.220(c)(103)(xviii)(A)]	Y	
221	<i>Federal Operating Permit Requirement</i>	12/21/94	[SIP: Approved 2/5/96, 61 FR 4217, 40 CFR 52.220(c)(216)(i)(A)(2)]	Y	

301	<i>Permit Fees</i>	Not in SIP	Applicable Version = Most current amendment, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	Rule 301 is a fee rule and does not ordinarily require submission to USEPA. Various prior versions of Rule 301 were previously included in the State Implementation Plan (SIP) however USEPA removed this rule from the SIP on 01/18/02 (67 FR 2573; 40 CFR 52.220(c)(39)(iv)(C)). Therefore, this rule is not required to be a federal submittal.
312	<i>Fees for Federal Operating Permits</i>	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
401	<i>Visible Emissions</i>	SB - 7/25/1977 RC - 2/4/1977 (subdivision (a)) RC - 10/15/82 (subdivision (b))	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(C)] RC (a) - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(iv)(C)] RC (b) - [SIP: Approved 10/19/84, 49 FR 41028, 40 CFR 52.220(c)(127)(vii)(C)]	Y	
403	<i>Fugitive Dust</i>	SB - 7/25/1977 RC - 7/25/1977	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(iv)(C)]	Y	

403.2	<i>Fugitive Dust Control for the Mojave Desert Planning Area</i>	9/22/96	[SIP: Approved 12/9/98, 63 FR 67784, 40 CFR 52.220(c)(194)(i)(H)(1)]	Y	
404	<i>Particulate Matter Concentration</i>	7/25/77	[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	
405	<i>Solid Particulate Matter, Weight</i>	7/25/77	[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
406	<i>Specific Contaminants</i>	SB - 7/25/1977 (subdivision (a)) RC - None	SB - [SIP: Approved, 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	
407	<i>Liquid and Gaseous Air Contaminants</i>	5/7/76	SB - [SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C)] RC - [Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	

408	<i>Circumvention</i>	5/7/76	[SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
409	<i>Combustion Contaminants</i>	5/7/76	[SIP: Approved 9/8/78; 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
430	<i>Breakdown Provisions</i>	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
431	<i>Sulfur Content of Fuels</i>	SB - 10/8/1976 RC - 10/8/1976	SB - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(B) and 40 CFR 52.220(c)(39)(ii)(B) RC - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(C), 40 CFR 52.220(c)(39)(iv)(C), and 40 CFR 52.220(c)(39)(vi)(B)	Y	
442	<i>Usage of Solvents</i>	2/27/06	[SIP: Approved 09/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)]	Y	

900	<i>Standards of Performance for New Stationary Sources</i>	2/28/11	Delegated by USEPA	Y	Adopts NSPSs by reference. See NSPSs Delegation Listing.
1000	<i>National Emissions Standards from Hazardous Air Pollutants</i>	2/28/11	Delegated by USEPA	Y	Adopts NESHAPs by reference. See NESHAP Delegation Listing.
1104	<i>Organic Solvent Degreasing Operations</i>	9/28/94	[SIP: Approved: 4/30/96, 61 FR 18962, 40 CFR 52.220(c)(207)(I)(D)(2)]	Y	
1113	<i>Architectural Coatings</i>	4/23/12	[SIP: Approved: 1/03/14, 79 FR 364, 40 CFR 52.220(c)(428)(i)(C)]	Y	
1115	<i>Metal Parts and Products Coating Operations</i>	4/22/96	[SIP: Approved 12/23/97, 62 FR 67002, 40 CFR 52.220(c)(239)(i)(A)(2)]	Y	
1161	<i>Cement Kilns</i>	3/25/02	[SIP: Approved 1/2/02, 67 FR 19, 40 CFR 52.220(c)(287)(i)(A)(1)]	Y	

1302	<i>NSR - Procedure</i>	3/25/96	[SIP: Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A)(1)]	Y	
Regulation XII	<i>Federal Operating Permits</i>	1201-1210: 9/26/05 1200 & 1211: 2/28/11	SIP: Not SIP. Final Title V Program Approval 11/21/03 68 FR 65637; Partial Withdrawal of approval 10/15/02 67 FR 63551; Notice of Deficiency 05/22/02 67 FR 35990; Approval 12/17/01 66 FR 63503; Interim Approval 02/05/96 61 FR 4217]		

Appendix A
40 CFR 63, Subpart VVVV: Tables 1, 2, 3, 5, 6, 7 and 8

Table 1 to Subpart VVVV of Part 63—Compliance Dates for New and Existing Boat Manufacturing Facilities

As specified in §63.5695, you must comply by the dates in the following table:

If your facility is—	And—	Then you must comply by this date—
1. An existing source	Is a major source on or before August 22, 2001 ¹	August 23, 2004.
2. An existing or new area source	Becomes a major source after August 22, 2001 ¹	1 year after becoming a major source or August 22, 2002, whichever is later.
3. A new source	Is a major source at startup ¹	Upon startup or August 22, 2001, whichever is later.

¹Your facility is a major source if it is a stationary source or group of stationary sources located within a contiguous area and under common control that emits or can potentially emit, considering controls, in the aggregate, 9.1 megagrams or more per year of a single hazardous air pollutant or 22.7 megagrams or more per year of a combination of hazardous air pollutants.

Table 2 to Subpart VVVV of Part 63—Alternative Organic HAP Content Requirements for Open Molding Resin and Gel Coat Operations

As specified in §§63.5701(b), 63.5704(b)(2), and 63.5713(a), (b), and (d), you must comply with the requirements in the following table:

For this operation—	And this application method—	You must not exceed this weighted-average organic HAP content (weight percent) requirement—
1. Production resin operations	Atomized (spray)	28 percent.
2. Production resin operations	Nonatomized (nonspray)	35 percent.
3. Pigmented gel coat operations	Any method	33 percent.
4. Clear gel coat operations	Any method	48 percent
5. Tooling resin operations	Atomized (spray)	30 percent.
6. Tooling resin operations	Nonatomized (nonspray)	39 percent.
7. Tooling gel coat operations	Any method	40 percent.

Table 3 to Subpart VVVV of Part 63—MACT Model Point Value Formulas for Open Molding Operations¹

As specified in §§63.5710(d) and 63.5714(a), you must calculate point values using the formulas in the following table:

For this operation—	And this application method—	Use this formula to calculate the MACT model plant value for each resin and gel coat—
1. Production resin, tooling resin	a. Atomized	$0.014 \times (\text{Resin HAP}\%)^{2.425}$
	b. Atomized, plus vacuum bagging with roll-out	$0.01185 \times (\text{Resin HAP}\%)^{2.425}$
	c. Atomized, plus vacuum bagging without roll-out	$0.00945 \times (\text{Resin HAP}\%)^{2.425}$
	d. Nonatomized	$0.014 \times (\text{Resin HAP}\%)^{2.275}$
	e. Nonatomized, plus vacuum bagging with roll-out	$0.0110 \times (\text{Resin HAP}\%)^{2.275}$
	f. Nonatomized, plus vacuum bagging without roll-out	$0.0076 \times (\text{Resin HAP}\%)^{2.275}$
2. Pigmented gel coat, clear gel coat, tooling gel coat	All methods	$0.445 \times (\text{Gel coat HAP}\%)^{1.675}$

¹Equations calculate MACT model point value in kilograms of organic HAP per megagrams of resin or gel coat applied. The equations for vacuum bagging with roll-out are applicable when a facility rolls out the applied resin and fabric prior to applying the vacuum bagging materials. The equations for vacuum bagging without roll-out are applicable when a facility applies the vacuum bagging materials immediately after resin application without rolling out the resin and fabric. HAP% = organic HAP content as supplied, expressed as a weight-percent value between 0 and 100 percent.

[66 FR 44232, Aug. 22, 2001; 66 FR 50504, Oct. 3, 2001]

**Table 5 to Subpart VVVV of Part 63—Default Organic HAP
Contents of Solvents and Solvent Blends**

As specified in §63.5758(a)(6), when detailed organic HAP content data for solvent blends are not available, you may use the values in the following table:

Solvent/solvent blend	CAS No.	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
1. Toluene	108–88–3	100	Toluene.
2. Xylene(s)	1330–20–7	100	Xylenes, ethylbenzene.
3. Hexane	110–54–3	50	n-hexane.
4. n-hexane	110–54–3	100	n-hexane.
5. Ethylbenzene	100–41–4	100	Ethylbenzene.
6. Aliphatic 140		0	None.
7. Aromatic 100		2	1% xylene, 1% cumene.
8. Aromatic 150		9	Naphthalene.
9. Aromatic naptha	64742–95–6	2	1% xylene, 1% cumene.
10. Aromatic solvent	64742–94–5	10	Naphthalene.
11. Exempt mineral spirits	8032–32–4	0	None.
12. Ligroines (VM & P)	8032–32–4	0	None.
13. Lactol spirits	64742–89–6	15	Toluene.
14. Low aromatic white spirit	64742–82–1	0	None.
15. Mineral spirits	64742–88–7	1	Xylenes.
16. Hydrotreated	64742–	0	None.

Solvent/solvent blend	CAS No.	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
naphtha	48-9		
17. Hydrotreated light distillate	64742-47-8	0.1	Toluene.
18. Stoddard solvent	8052-41-3	1	Xylenes.
19. Super high-flash naphtha	64742-95-6	5	Xylenes.
20. Varol [®] solvent	8052-49-3	1	0.5% xylenes, 0.5% ethyl benzene.
21. VM & P naphtha	64742-89-8	6	3% toluene, 3% xylene.
22. Petroleum distillate mixture	68477-31-6	8	4% naphthalene, 4% biphenyl.

**Table 6 to Subpart VVVV of Part 63—Default Organic HAP
 Contents of Petroleum Solvent Groups**

As specified in §63.5758(a)(6), when detailed organic HAP content data for solvent blends are not available, you may use the values in the following table:

Solvent type	Average organic HAP content, percent by mass	Typical organic HAP, percent by mass
Aliphatic (Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naptha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.)	3	1% Xylene, 1% Toluene, and 1% Ethylbenzene.
Aromatic (Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.)	6	4% Xylene, 1% Toluene, and 1% Ethylbenzene.

Table 7 to Subpart VVVV of Part 63—Applicability and Timing of Notifications

As specified in §63.5761(a), you must submit notifications according to the following table:

If your facility—	You must submit—	By this date—
1. Is an existing source subject to this subpart	An initial notification containing the information specified in §63.9(b)(2)	No later than the dates specified in §63.9(b)(2).
2. Is a new source subject to this subpart	The notifications specified in §63.9(b) (3) to (5)	No later than the dates specified §63.9(b)(4) and (5).
3. Qualifies for a compliance extension as specified in §63.9(c)	A request for a compliance extension as specified in §63.9(c)	No later than the dates specified in §63.6(i).
4. Is complying with organic HAP content limits, application equipment requirements; or MACT model point value averaging provisions	A notification of compliance status as specified in §63.9(h)	No later than 30 calendar days after the end of the first 12-month averaging period after your facility's compliance date.
5. Is complying by using an add-on control device	a. notification of intent to conduct a performance test as specified in §63.9(e)	No later than the date specified in §63.9(e).
	b. A notification of the date for the continuous monitoring system performance evaluation as specified in §63.9(g)	With the notification of intent to conduct a performance test.
	c. A notification of compliance status as specified in §63.9(h)	No later than 60 calendar days after the completion of the add-on control device performance test and continuous monitoring system performance evaluation.

Table 8 to Subpart VVVV of Part 63—Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart VVVV

As specified in §63.5773, you must comply with the applicable requirements of the General Provisions according to the following table:

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.1(a)	General Applicability	Yes.	
§63.1(b)	Initial Applicability Determination	Yes.	
§63.1(c)(1)	Applicability After Standard Established	Yes.	
§63.1(c)(2)		Yes	Area sources are not regulated by subpart VVVV.
§63.1(c)(3)		No	[Reserved]
§63.1(c)(4)–(5)		Yes.	
§63.1(d)		No	[Reserved]
§63.1(e)	Applicability of Permit Program	Yes.	
§63.2	Definitions	Yes	Additional definitions are found in §63.5779.
§63.3	Units and Abbreviations	Yes.	
§63.4(a)	Prohibited Activities	Yes.	
§63.4(b)–(c)	Circumvention/Severability	Yes.	
§63.5(a)	Construction/Reconstruction	Yes.	
§63.5(b)	Requirements for Existing, Newly Constructed, and Reconstructed Sources	Yes.	
§63.5(c)		No	[Reserved]
§63.5(d)	Application for Approval of	Yes.	

Citation	Requirement	Applies to subpart VVVV	Explanation
	Construction/Reconstruction		
§63.5(e)	Approval of Construction/Reconstruction	Yes.	
§63.5(f)	Approval of Construction/Reconstruction Based on prior State Review	Yes.	
§63.6(a)	Compliance with Standards and Maintenance Requirements— Applicability	Yes.	
§63.6(b)	Compliance Dates for New and Reconstructed Sources	Yes	§63.695 specifies compliance dates, including the compliance date for new area sources that become major sources after the effective date of the rule.
§63.6(c)	Compliance Dates for Existing Sources	Yes	§63.5695 specifies compliance dates, including the compliance date for existing area sources that become major sources after the effective date of the rule.
§63.6(d)		No	[Reserved]
§63.6(e)(1)–(2)	Operation and Maintenance Requirements	No	Operating requirements for open molding operations with add-on controls are specified in §63.5725.
§63.6(e)(3)	Startup, Shut Down, and Malfunction Plans	Yes	Only sources with add-on controls must complete startup, shutdown, and malfunction plans.
§63.6(f)	Compliance with Nonopacity Emission Standards	Yes.	

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.6(g)	Use of an Alternative Nonopacity Emission Standard	Yes.	
§63.6(h)	Compliance with Opacity/Visible Emissions Standards	No	Subpart VVVV does not specify opacity or visible emission standards.
§63.6(i)	Extension of Compliance with Emission Standards	Yes.	
§63.6(j)	Exemption from Compliance with Emission Standards	Yes.	
§63.7(a)(1)	Performance Test Requirements	Yes.	
§63.7(a)(2)	Dates for performance tests	No	§63.5716 specifies performance test dates.
§63.7(a)(3)	Performance testing at other times	Yes.	
§63.7(b)–(h)	Other performance testing requirements	Yes.	
§63.8(a)(1)–(2)	Monitoring Requirements—Applicability	Yes	All of §63.8 applies only to sources with add-on controls. Additional monitoring requirements for sources with add-on controls are found in §63.5725.
§63.8(a)(3)		No	[Reserved]
§63.8(a)(4)		No	Subpart VVVV does not refer directly or indirectly to §63.11.
§63.8(b)(1)	Conduct of Monitoring	Yes.	
§63.8(b)(2)–(3)	Multiple Effluents and Multiple Continuous Monitoring Systems (CMS)	Yes	Applies to sources that use a CMS on the control device stack.

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.8(c)(1)–(4)	Continuous Monitoring System Operation and Maintenance	Yes.	
§63.8(c)(5)	Continuous Opacity Monitoring Systems (COMS)	No	Subpart VVVV does not have opacity or visible emission standards.
§63.8(c)(6)–(8)	Continuous Monitoring System Calibration Checks and Out-of-Control Periods	Yes.	
§63.8(d)	Quality Control Program	Yes.	
§63.8(e)	CMS Performance Evaluation	Yes.	
§63.8(f)(1)–(5)	Use of an Alternative Monitoring Method	Yes.	
§63.8(f)(6)	Alternative to Relative Accuracy Test	Yes	Applies only to sources that use continuous emission monitoring systems (CEMS).
§63.8(g)	Data Reduction	Yes	
§63.9(a)	Notification Requirements—Applicability	Yes.	
§63.9(b)	Initial Notifications	Yes	
§63.9(c)	Request for Compliance Extension	Yes.	
§63.9(d)	Notification That a New Source Is Subject to Special Compliance Requirements	Yes.	
§63.9(e)	Notification of Performance Test	Yes	Applies only to sources with add-on controls.
§63.9(f)	Notification of Visible Emissions/Opacity Test	No	Subpart VVVV does not have opacity or visible emission standards.

Citation	Requirement	Applies to subpart VVVV	Explanation
§63.9(g)(1)	Additional CMS Notifications— Date of CMS Performance Evaluation	Yes	Applies only to sources with add-on controls.
§63.9(g)(2)	Use of COMS Data	No	Subpart VVVV does not require the use of COMS.
§63.9(g)(3)	Alternative to Relative Accuracy Testing	Yes	Applies only to sources with CEMS.
§63.9(h)	Notification of Compliance Status	Yes.	
§63.9(i)	Adjustment of Deadlines	Yes.	
§63.9(j)	Change in Previous Information	Yes.	
§63.10(a)	Recordkeeping/Reporting— Applicability	Yes.	
§63.10(b)(1)	General Recordkeeping Requirements	Yes	§§63.5767 and 63.5770 specify additional recordkeeping requirements.
§63.10(b)(2)(i)–(xi)	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	Yes	Applies only to sources with add-on controls.
§63.10(b)(2)(xii)–(xiv)	General Recordkeeping Requirements	Yes.	
§63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations	Yes	§63.5686 specifies applicability determinations for non-major sources.
§63.10(c)	Additional Recordkeeping for Sources with CMS	Yes	Applies only to sources with add-on controls.
§63.10(d)(1)	General Reporting Requirements	Yes	§63.5764 specifies additional reporting requirements.
§63.10(d)(2)	Performance Test Results	Yes	§63.5764 specifies additional requirements for reporting

Citation	Requirement	Applies to subpart VVVV	Explanation
			performance test results.
§63.10(d)(3)	Opacity or Visible Emissions Observations	No	Subpart VVVV does not specify opacity or visible emission standards.
§63.10(d)(4)	Progress Reports for Sources with Compliance Extensions	Yes.	
§63.10(d)(5)	Startup, Shutdown, and Malfunction Reports	Yes	Applies only to sources with add-on controls.
§63.10(e)(1)	Additional CMS Reports—General	Yes	Applies only to sources with add-on controls.
§63.10(e)(2)	Reporting Results of CMS Performance Evaluations	Yes	Applies only to sources with add-on controls.
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	Yes	Applies only to sources with add-on controls.
§63.10(e)(4)	COMS Data Reports	No	Subpart VVVV does not specify opacity or visible emission standards.
§63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§63.11	Control Device Requirements—Applicability	No	Facilities subject to subpart VVVV do not use flares as control devices.
§63.12	State Authority and Delegations	Yes	§63.5776 lists those sections of subpart A that are not delegated.
§63.13	Addresses	Yes.	
§63.14	Incorporation by Reference	Yes.	
§63.15	Availability of Information/Confidentiality	Yes.	