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[RULE INDEX TO BE ADDED AFTER RULE ADOPTION]

PROPOSED AMENDED RULE 1106. MARINE AND PLEASURE CRAFT COATINGS

- (a) Purpose
The purpose of this rule is to reduce Volatile Organic Compounds (VOC) and toxic emissions from Marine and Pleasure Craft Coatings.
- (b) Applicability
This rule is applicable to any Person who supplies, sells, offers for sale, markets, manufactures, blends, packages, repackages, possesses or distributes any Marine or Pleasure Craft Coating, and any associated solvent, for use within the South Coast AQMD jurisdiction, as well as any Person who uses, stores at a worksite, or solicits the application of any Marine or Pleasure Craft Coating, and any associated solvent used for coating Vessels or their Appurtenances, or docks, navigational aids, buoys, or offshore platforms, within the South Coast AQMD .
- (c) Definitions
- (1) AEROSOL COATING PRODUCT is a pressurized coating product containing pigments, resins, and/or other coating solids that dispenses product ingredients by means of a propellant and is packaged in a disposable aerosol container for hand-held application.
 - (2) AIR DRIED COATING is any coating that is formulated by the manufacturer to be cured at a temperature below 90 degrees Celsius (°C) (194 degrees Fahrenheit (°F)).
 - (3) ANTENNA COATING is any coating applied to equipment and associated structural appurtenances that are used to receive or transmit electromagnetic signals.
 - (4) ANTIFOULANT COATING is any coating applied to the underwater portion of boats, ships, vessels, or Pleasure Craft to prevent or reduce the

attachment of biological organisms and shall be registered with the United States Environmental Protection Agency (U.S. EPA) as a pesticide under the Federal Insecticide, Fungicide, and Rodenticide Act (7 United States Code Section 136).

- (5) APPURTENANCE means a fixed, structural, or semi-permanent attachment or accessory that extends beyond the hull or superstructure of a Vessel. Appurtenances do not include temporary equipment, including but not limited to, fishing nets, trailers, or portable generators.
- (6) BAKED COATING is any coating that is formulated by the manufacturer to be cured at a temperature at or above 90 °C (194 °F).
- (7) CHEMICAL ABSTRACTS SERVICE REGISTRATION NUMBER or CAS RN is a unique numerical identifier assigned by the Chemical Abstract Service to a single chemical substance to ensure unambiguous identification.
- (8) CLEAR WOOD COATING is a clear and semi-transparent Topcoat applied to wood substrates to provide a transparent or translucent film.
- (9) COATING is a material that is applied to a surface and forms a film in order to beautify, preserve, repair, or protect such a surface.
- (10) COATING FILM THICKNESS or “mils” is a unit of measurement equal to one-thousandth of an inch (0.001 of an inch), used to measure the thickness of coatings.
- (11) COLORANT is a solution of dyes or suspensions of pigments sold or supplied as a separate component that an owner or operator of a Facility mixes with Marine Coatings or Pleasure Craft Coatings on site.
- (12) DISTRIBUTOR is any Person to whom a product is sold or supplied for the purposes of resale or distribution in commerce, except that manufacturers, retailers, and consumers are not distributors.
- (13) EXECUTIVE OFFICER is as defined in Rule 102 – Definition of Terms (Rule 102).
- (14) EXEMPT COMPOUNDS are as defined in Rule 102.
- (15) FACILITY is a business, or public service engaged in Marine Coating or Pleasure Craft Coating operations, including the application of Marine Coatings and Pleasure Craft Coatings, that are owned or operated by the same Person or Persons and are located on the same or contiguous parcels.

- (16) GRAMS OF VOC PER LITER (g/L) OF COATING LESS WATER AND LESS EXEMPT COMPOUNDS or REGULATORY VOC is the weight of VOC per combined volume of VOC and coating solids and can be calculated by the following equation:

$$\frac{\text{Regulatory VOC (g/L-coating)}}{W_v W_w W_{ex}} = \frac{1}{V_m - V_w - V_{ex}}$$

- Where:
- W_v = weight of volatile compounds in grams (includes water, Exempt Compounds, and VOCs);
 - W_w = weight of water in grams;
 - W_{ex} = weight of Exempt Compounds in grams;
 - V_m = volume of material in liters;
 - V_w = volume of water in liters;
 - V_{ex} = volume of Exempt Compounds in liters;

- (17) GRAMS OF VOC PER LITER OF MATERIAL or ACTUAL VOC is the weight of VOC per volume of material and shall be calculated by the following equation:

$$\text{Actual VOC} = \frac{W_v - W_w - W_{ex}}{V_m}$$

- Where:
- W_v = weight of volatile compounds in grams (includes water, Exempt Compounds, and VOCs)
 - W_w = weight of water in grams
 - W_{ex} = weight of Exempt Compounds in grams
 - V_m = volume of material in liters

- (18) HEAT RESISTANT COATING is any coating that is formulated, labeled, and capable of withstanding temperatures of at least 204 °C (400 °F).
- (19) HIGH GLOSS COATING is any coating that registers a gloss of 85 or greater on a 60 degree (°)meter according to ASTM Standard Test Method D-523 (ASTM D-523).

- (20) HIGH TEMPERATURE COATING is any coating that is formulated, labeled, and capable of withstanding temperatures of at least 426 °C (800 °F).
- (21) HIGH-VOLUME, LOW-PRESSURE (HVLP) means spray application equipment designed to atomize 100 percent by air pressure only and is operated between 0.1 and 10 pounds per square inch gauge air atomizing pressure measured dynamically at the center of the air cap and at the air horns.
- (22) INORGANIC ZINC COATING is a coating that contains 960 grams per liter or more elemental zinc incorporated into an inorganic silicate binder that is applied to steel to provide galvanic corrosion resistance.
- (23) LOW ACTIVATION INTERIOR COATING is any coating used on interior surfaces aboard boats, ships, and vessels to minimize the activation of pigments on painted surfaces within a radiation environment.
- (24) LOW-SOLIDS COATING is a coating containing one pound or less of solids per gallon of material, where the solids content is determined pursuant to ASTM D 2369 – Standard Test Method for Volatile Content of Coatings.
- (25) MARINE COATING is any coating applied or intended for application to Marine Vessels, or their Appurtenances, or to docks, buoys, navigational aids, or offshore platforms. .
- (26) MARINE DECK SEALANT PRIMER is any Primer intended to be applied to a substrate, prior to the application of a sealant, to enhance the bonding surface, which is formulated and labeled to be applied to wooden marine decks.
- (27) MARINE VESSEL is any vessel that is not a Pleasure Craft.
- (28) MIST COATING is any low-viscosity thin-film epoxy coating applied to an inorganic zinc primer that penetrates the porous zinc primer and allows the occluded air to escape through the film prior to curing.
- (29) NAVIGATIONAL AIDS COATING is any coating that is applied to buoys or other Coast Guard waterway markers that are recoated at their usage site aboard ship and immediately returned to the water.
- (30) NONSKID COATING means any coating applied to the horizontal surface of a marine vessel for the specific purpose of providing slip resistance for personnel.

- (31) ORGANIC ZINC COATING is a coating that contains 960 grams per liter or more elemental zinc incorporated into an organic silicate binder that is applied to steel to provide galvanic corrosion resistance.
- (32) PERSON is as defined in Rule 102.
- (33) PLEASURE CRAFT are Vessels manufactured or operated primarily for recreational purposes, or are leased, rented, or chartered to a Person or business for recreational purposes. Pleasure Craft are also Vessels operated in amusement theme parks solely for the purpose of an amusement park attraction.
- (34) PLEASURE CRAFT COATING is any coating, applied or intended for application to Pleasure Crafts or their Appurtenances.
- (35) PRETREATMENT WASH PRIMER is a coating that contains a minimum of 0.5 percent acid, by weight, applied directly to bare metal surfaces to provide necessary surface etching.
- (36) PRIMER is any coating specifically formulated, labeled, and applied to provide corrosion resistance, adhesion for subsequent coatings, a moisture barrier, or promotes a uniform surface necessary for filling in surface imperfections.
- (37) REDUCER OR THINNER is any solvent specifically labeled and formulated to reduce the viscosity of coatings.
- (38) REPAIR AND MAINTENANCE THERMOPLASTIC COATING is any resin-bearing coating, such as vinyl, chlorinated rubber, or bituminous coatings, where the thermoplastic resin becomes pliable with the application of heat and is used to recoat portions of a previously coated substrate that has sustained damage.
- (39) SEALANT FOR WIRE-SPRAYED ALUMINUM is a coating formulated, labeled, and applied to seal pores, voids, and cracks in Wire-Sprayed Aluminum Coatings.
- (40) SEALER is a coating applied to bare wood to seal surface pores to prevent subsequent coatings from being absorbed into the wood.
- (41) SOLVENT CLEANING is as defined in Rule 1171 - Solvent Cleaning Operations.
- (42) SOUTH COAST AQMD TEST METHOD means a test method included in the manual of "Laboratory Methods of Analysis for Enforcement

Samples,” which can be found on the South Coast AQMD website and are referenced in subdivision (h).

- (43) SPECIAL MARKING COATING is any coating used for items such as flight decks, vessel identification numbers, and other demarcations for safety or identification.
- (44) TACK COAT is an epoxy coating applied to an existing epoxy coating that has aged beyond the time limit specified by the manufacturer.
- (45) TEAK PRIMER is a coating applied to teak wood or previously oiled teak wood decks in order to improve the adhesion of a seam sealer.
- (46) TIE COAT is any coating specifically formulated, labeled, and applied to provide adhesion for subsequent layers of coatings to be applied that differ from the preceding coating layer to the applied tie coat.
- (47) THERMOPLASTIC ANTIFOULING COATING is a thermoplastic coating, which means it cures through solvent evaporation not chemical reaction, applied to the underwater portion of boats, ships, vessels, or pleasure craft to prevent or reduce the attachment of biological organisms without the use of pesticides or biocides.
- (48) TOPCOAT is any final coating applied to the interior or exterior of a marine or Pleasure Craft.
- (49) TRANSFER EFFICIENCY is the ratio of the weight or volume of coating solids adhering to the object to the total weight or volume, respectively, of coating solids used in the application process, expressed as a percentage.
- (50) UNDERSEA WEAPONS SYSTEM COATING is any coating applied to any components of a weapons system intended for exposure to a marine environment that is intended to be launched or fired undersea.
- (51) VARNISHES are clear or pigmented wood Topcoats formulated with various resins to dry by chemical reaction.
- (52) VESSEL means any watercraft exposed to a marine or freshwater environment, including ships, boats, submersibles, or submarines.
- (53) VOLATILE ORGANIC COMPOUND (VOC) is as defined in Rule 102.
- (54) WIRE-SPRAYED ALUMINUM COATING is a protective molten aluminum coating made by melting and atomizing aluminum wire that is applied to steel substrates to protect from corrosion.

(d) Requirements

(1) VOC Content of Marine Coatings

No Person shall manufacture, supply, sell, offer for sale, market, blend, distribute, package, or repackage any Marine Coatings for use within South Coast AQMD, nor shall any owner or operator of a Facility possess, store at a worksite, apply or solicit the use of any Marine Coatings, including any VOC-containing material added to the Marine Coatings, within South Coast AQMD, that contains VOC in excess of the applicable limits specified in Table 1 – Table of Standards Regulatory VOC Content Limits for Marine Coatings (Table 1). Compliance with the applicable VOC content limits shall be based on VOC content, including any material added to the original Marine Coating supplied by the manufacturer, expressed as grams of VOC per liter of coating, as applied, less water and Exempt Compounds.

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Table 1 – Table of Standards for Marine Coatings

Marine Coating Category	Regulatory VOC Content Limits (g/L-Coating)	
	Baked Coatings	Air Dried Coatings
Antenna Coating		340
Fouling Deterrent Coatings:		
Antifoulant Coating		400
Thermoplastic Antifouling Coating		400
Inorganic Zinc Coating		340
Low Activation Interior Coating		420
Mist Coating		610
Navigational Aids Coating		340
Nonskid Coating		340
Organic Zinc Coating		340
Undercoaters:		
Primer	275	340
Pre-Treatment Wash Primer		780
Repair and Maintenance Thermoplastic Coating		340
Sealant for Wire-Sprayed Aluminum Coating		610
Special Marking Coating		420
Specialty Coatings:		
Heat Resistant Coating	360	420
High Temperature Coating		500
Tack Coating		610
Topcoats:		
High Gloss Coating	275	340
Undersea Weapons Systems Coating	275	340
Any Other Coating Type	275	340

(2) VOC Content of Pleasure Craft Coatings

No Person shall manufacture, supply, sell, offer for sale, market, blend, distribute, package, or repackage any Pleasure Craft Coatings for use within South Coast AQMD, nor shall any owner or operator of a Facility possess, store at a worksite, apply or solicit the use of any Pleasure Craft Coatings, including any VOC-containing material added to the Pleasure Craft

Coatings, within South Coast AQMD that contains VOC in excess of the applicable limits specified in Table 2 – Table of Standards Regulatory VOC Content Limits for Pleasure Craft Coatings (Table 2). Compliance with the applicable VOC content limits shall be based on VOC content, including any material added to the original Pleasure Craft Coating supplied by the manufacturer, expressed as grams of VOC per liter of coating, as applied, less water and Exempt Compounds.

Table 2 – Table of Standards for Pleasure Craft Coatings

Pleasure Craft Coating Category	Regulatory VOC Content Limit (g/L-Coating)	
	Current Limit	Limit Effective 01/01/2029
Fouling Deterrent Coatings		
Antifouling Coatings	330	
Thermoplastic Antifouling Coating	400	
Clear Wood Coatings		
Sealers	550	TBD
Varnishes	490	TBD
Undercoaters		
Primer	340	
Marine Deck Sealant Primer	760	
Pretreatment Wash Primer	780	
Teak Primer	775	
Topcoats		
High Gloss Coating	420	340
Any Other Coating Type	420	340

(3) VOC Content of Low-Solids Coatings

No Person shall manufacture, supply, sell, offer for sale, market, blend, distribute, package, or repackage any Marine Coatings or Pleasure Craft Coatings for use within South Coast AQMD, nor shall any owner or

operator of a Facility possess, store at a worksite, apply or solicit the use of any Marine Coatings or a Pleasure Craft Coatings within South Coast AQMD that contains VOC in excess of the limit specified in Table 3 – Table of Standards Actual VOC Content Limit for Low-Solids Coatings (Table 3). Compliance with the applicable VOC content limit shall be based on VOC content, including any material added to the original coating supplied by the manufacturer, expressed as grams of VOC per material of coating, as applied.

Table 3 – Table of Standards for Low-Solids Coatings

Coating Category	Actual VOC Content Limit (g/L-Actual)
Low-Solids Coating	120

- (4) Sell Through and Use Through for VOC limit reductions
Any Marine Coating or Pleasure Craft Coating that is manufactured prior to the future effective date of the applicable VOC content limit specified in Table 1 or Table 2, and that has a VOC content above that limit, but no more than the initial applicable limit, may be sold, supplied, or offered for sale for up to 12 months after the applicable effective date and used up to 24 months after the applicable effective date.
- (5) Subsumed Coating Categories
Notwithstanding the VOC limits in Table 1 and/or Table 2 for the applicable Coating Category that Subsumes Current Category in Table 4, the following coatings that are manufactured before January 1, 2029, may be supplied, sold, offered for sale, marketed, blended, distributed, packaged, or repackaged for use within South Coast AQMD, and may be possessed, stored at a worksite, applied or solicited for use in the South Coast AQMD if it has a VOC content of less than or equal to the applicable Current Regulatory VOC Content Limit (g/L-Coating) in Table 4:
 - (A) Antifoulant Coating labeled and formulated to be applied solely to aluminum substrates;
 - (B) Finish Primer/Surfacer, which is any coating applied with a wet film thickness of less than 10 mils and is applied prior to the application

of a Marine or Pleasure Craft Coating for the purpose of providing corrosion resistance, adhesion for subsequent coatings, a moisture barrier, or promotes a uniform surface necessary for filling in surface imperfections; and

- (C) Extreme High-Gloss Coating, which is any coating that registers a gloss of 95 or greater on a 60° meter according to ASTM D-523.
- (6) Sell Through and Use Through for Subsumed Coating Categories
- Any Coating Category listed in Table 4 that is manufactured prior to the Category Sunset Effective Date in Table 4, and that has a VOC content above the Future VOC Limit (g/L-Coating) in Table 4, but not above the, Current VOC Limit (g/L-Coating) in Table 4, may be sold, supplied, or offered for sale until the Sell-Through End Date in Table 4 and used until the Use-Through End Date in Table 4.

Table 4: Subsumed Categories and Timelines

Current Coating Category	Current VOC Limit (g/L-Coating)	Category that Subsumes Current Category	Future VOC Limit (g/L-Coating)	Category Sunset Effective Date	Sell-Through End Date	Use-Through End Date
Marine Coatings Subject to Table 1						
Antifoulant Coatings for Aluminum Substrates	560	Antifoulant Coating	400	January 1, 2029	January 1, 2030	January 1, 2031
Extreme High Gloss Coating	420	High Gloss Coating	340			
Pleasure Craft Coatings Subject to Table 2						
Antifoulant Coatings for Aluminum Substrates	560	Antifoulant Coating	400	January 1, 2029	January 1, 2030	January 1, 2030
Extreme High Gloss Coating	490	High Gloss Coating	340			
Finish Primer Surfacer	420	Primer	340			

(7) Most Restrictive VOC Limit

If any representation or information on the container of any coating subject to this rule, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature that indicates that the coating meets the definition of, is recommended for use, or is suitable for use for more than one of the Marine Coating categories listed in paragraph (d)(1) or the Pleasure Craft Coating categories listed in paragraph (d)(2), then the lowest VOC content limit shall apply.

(8) Application Equipment Transfer Efficiency

An owner or operator of a Facility shall apply any Marine Coating or Pleasure Craft Coating using properly operating equipment, operated according to

procedures specified by the equipment manufacturer, and in compliance with the applicable permit conditions, if any, the equipment manufacturer's operating procedures, and by the use of one of the following methods:

- (A) Electrostatic application;
- (B) High-Volume, Low-Pressure (HVLP) spray;
- (C) Brush, dip, or roller; or
- (D) Any such other Marine Coating or Pleasure Craft Coating application methods as demonstrated, in accordance with the provisions of paragraph (h)(6), to the Executive Officer to be capable of achieving equivalent or better Transfer Efficiency than the Marine Coating or Pleasure Craft Coating application method listed in subparagraph (d)(6)(B), provided written approval is obtained from the Executive Officer prior to use.

- (9) Solvent Cleaning, Storage and Disposal of VOC-containing Materials
Solvent Cleaning of application equipment, parts, products, tools, machinery, equipment, general work areas, and the storage and disposal of VOC-containing materials used in Solvent Cleaning activities shall be carried out pursuant to South Coast AQMD Rule 1171 - Solvent Cleaning Operations.

(e) Alternative Emission Control Plan

An owner or operator of a Facility may comply with the provisions of paragraphs (d)(1), (d)(2) and (d)(3) by means of an Alternative Emission Control Plan pursuant to Rule 108 – Alternative Emissions Control Plans.

(f) Prohibition of Possession, Specification and Sale

(1) No Person shall supply, sell, market, blend, distribute, package, or repackage any Marine Coating or Pleasure Craft Coating or Colorants for use within South Coast AQMD, nor shall any owner or operator of a Facility possess, apply, or solicit for use any Marine Coating, Pleasure Coating, or Colorant for use within South Coast AQMD, that contains any of the following chemicals indicated below:

- (A) Cadmium, nickel, lead or hexavalent chromium that was introduced as a pigment or as an agent to impart any property or characteristic to the Marine Coating or Pleasure Craft Coating during

manufacturing, distribution, or use of applicable Marine Coatings or Pleasure Craft Coatings;

- (B) 0.01 percent by weight of Group II Exempt Compounds, excluding volatile methylated siloxanes (VMS);
- (C) 0.1 percent by weight of any VMS; or
- (D) 0.01 percent by weight of para-Chlorobenzotrifluoride (pCBtF, CAS RN 98-56-5) or *tert*-Butyl Acetate (t-BAc, CAS RN 540-88-5) that was manufactured after the applicable Final Manufacture Date in Table 5 – pCBtF and t-BAc Prohibition Timeline (Table 5), including any VOC-containing materials added to the original Marine Coating or Pleasure Craft Coating supplied by the manufacturer.

(2) Sell-Through and Use-Through Provisions

Any Marine Coating or Pleasure Craft Coating that is manufactured prior to the applicable Table 5 Final Manufacture Date, that contains more than 0.01 percent by weight of pCBtF and/or t-BAc, may be sold, supplied, or offered for sale until the applicable Table 5 Sell-Through Date and may be possessed, used, or solicited for use until the applicable Table 5 Use-Through Date.

Table 5: pCBtF and t-BAc Prohibition Timeline

Category	Prohibition Effective Date	Sell-Through End Date	Use-Through End Date
Antifoulant Coatings	January 1, 2031	January 1, 2032	January 1, 2033
Colorants	January 1, 2030	January 1, 2031	January 1, 2032
Primers	January 1, 2027	January 1, 2028	January 1, 2029
Marine Deck Sealant Primers			
Clear Wood Coatings			
All Other Coating Categories	January 1, 2028	January 1, 2029	January 1, 2030

- (3) For the purpose of this rule, no Person shall solicit from, specify, require, offer for sale, sell, or distribute to any other Person for use in the South Coast AQMD jurisdiction any Marine Coating or Pleasure Craft Coating application equipment that does not meet the requirements of subparagraph (d)(6).
 - (4) For the purpose of this rule, no Person shall offer for sale, sell, supply, market, offer for sale or distribute an HVLP spray gun for use within the South Coast AQMD unless said Person provides accurate information to the spray gun recipient. Such accurate information shall include the maximum inlet air pressure to the spray gun that would result in a maximum air pressure of 10 pounds per square inch gauge air pressure, measured dynamically at the center of the air cap and at the air horns, based on the manufacturer's published technical material on the design of the spray application equipment, and by a demonstration of the operation of the spray application equipment using an air pressure tip gauge from the manufacturer of the gun. The information shall either be permanently marked on the gun, or provided on the company's letterhead or in the form of technical literature that clearly identifies the spray gun manufacturer, the seller, or the distributor.
- (g) **Administrative and Recordkeeping Requirements**
- (1) **Recordkeeping for VOC Emissions**

Notwithstanding the provisions of subdivision (j), records of Marine Coating usage and Pleasure Craft Coating usage, as applicable, shall be maintained pursuant to Rule 109 - Recordkeeping for Volatile Organic Compound Emissions, and shall at a minimum include the following information:

 - (A) Coating name and manufacturer;
 - (B) Applicable coating category; and
 - (C) Purchase records identifying the coating category, product name, total volume of coating purchased, and company name of seller that each Marine Coating or Pleasure Craft Coating was purchased from.
 - (2) **Labeling Requirements**

On and after January 1, 2028, the manufacturer of Marine Coatings and Pleasure Craft Coatings shall include the following information on all product containers:

- (A) Applicable coating category;
 - (B) Whether the product is intended for Marine or Pleasure Craft use, or both; and
 - (C) Date of manufacture of the coating or a code indicating the date of manufacture. The manufacturer shall file an explanation of each code with the Executive Officer.
- (h) Test Methods
- (1) Determination of VOC Content:

The VOC content of coatings subject to the provisions of this rule shall be determined by the following methods:

 - (A) United States Environmental Protection Agency (U.S. EPA) Reference Test Method 24 – Determination of Volatile Matter Content, Water Content, Volume Solids and Weight Solids of Surface Coatings, Code of Federal Regulations, Title 40, Part 60, Appendix A. The Exempt Compounds’ content shall be determined by South Coast AQMD Test Method 303 – Determination of Exempt Compounds; or,
 - (B) South Coast AQMD Method 304 – Determination of Volatile Organic Compounds (VOCs) in Various Materials; or,
 - (C) South Coast AQMD Method 313 – Determination of Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometry/Flame Ionization Detection (GC/MS/FID).
 - (2) VOC content determined to exceed the limits established by this rule through the use of any of the above-referenced test methods shall constitute a violation of this rule.
 - (3) Exempt Perfluorocarbon Compounds

The following classes of compounds shall be analyzed as Exempt Compounds for compliance with subdivision (d), only at such time as manufacturers specify which individual compounds are used in the solvent formulation and identify the test methods, which have been approved by the U.S. EPA, CARB and the South Coast AQMD prior to such analysis, that can be used to quantify amounts of each Exempt Compound:

 - (A) Cyclic, branched, or linear, completely fluorinated alkanes;
 - (B) Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;

- (C) Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and
 - (D) Sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.
- (4) **Determination of Metallic Particles in Metallic Coatings**
The metal content in metallic coatings subject to the provisions of this rule shall be determined by South Coast AQMD Method 311 – Determination of Percent Metal in Metallic Coatings by Spectrographic Method.
- (5) **Determination of Acid Content in Marine and Pleasure Craft Coatings**
The acid content of any coating subject to the provisions of this rule shall be determined by ASTM D1613 – Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products.
- (6) **Determination of Transfer Efficiency of Application Equipment**
The Transfer Efficiency of alternative Marine Coating and Pleasure Craft Coating application methods, as defined by paragraph (c)(40), shall be determined in accordance with the most current versions of the South Coast AQMD method:
 - (A) "Spray Equipment Transfer Efficiency Test Procedure for Equipment User;" and
 - (B) "Guidelines for Demonstrating Equivalency With South Coast AQMD Approved Transfer Efficiency Spray Gun."
- (7) **Multiple Test Methods**
When more than one test method or set of test methods are specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of the rule.
- (8) **Equivalent Test Methods**
Other test methods determined to be equivalent and approved by the U.S. EPA, CARB, and the South Coast AQMD Executive Officer, and approved in writing by the South Coast AQMD Executive Officer may also be used.
- (9) **All test methods referenced in this section shall be the most recently approved version.**

- (i) Rule 442 Applicability
Any Marine Coating or Pleasure Craft Coating or any facility that is exempt pursuant to subdivision (j) from all or a portion of the VOC limits of subdivision (d) shall comply with the provisions of Rule 442 - Usage of Solvents.

- (j) Exemptions
 - (1) With the exception of paragraphs (f)(1), the provisions of this rule shall not apply to Marine Coatings or Pleasure Craft Coatings that have a VOC content of 50 g/L or less, or its equivalent, less water and exempt compounds, as applied.
 - (2) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply:
 - (A) Marine Coatings applied to interior surfaces of potable water containers;
 - (B) Any Marine Coating or Pleasure Craft Coating that is supplied, sold, offered for sale, marketed, manufactured, blended, packaged or repackaged for use within the South Coast AQMD in half pint or smaller containers and is applied by brush or air brush to cover minor imperfections or minor mechanical damage incurred prior to initial use;
 - (C) Marine Coatings or Pleasure Craft Coatings which are applied to test specimens in Facility laboratories for purposes of research, development, quality control, and testing for production-related operations; or
 - (D) Marine Coatings that are used for vessels that are intended to submerge to at least 500 feet below the surface of the water provided that the total combined usage of such coatings does not exceed 12 gallons per calendar year and such coatings are in compliance with the VOC limits in the U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) for Shipbuilding and Ship Repair (Surface Coatings).
 - (3) The provisions of paragraph (d)(8) shall not apply to marine or pleasure craft coatings with a viscosity of 650 centipoise or greater, as applied.
 - (4) The provisions of this rule shall not apply to:
 - (A) Aerosol Coating Products;
 - (B) Unsaturated polyester resin or fiberglass coatings, which are subject to Rule 1162 – Polyester Resin Operations;

- (C) Coatings applied to piers and bridges which are subject to Rule 1113 – Architectural Coatings (Rule 1113); or
 - (D) The above the waterline portions of permanently docked Vessels serving as a stationary business, which are subject to Rule 1113.
- (5) The prohibitions of possessing and repackaging Marine Coatings and Pleasure Craft Coatings in paragraphs (d)(1), (d)(2), (d)(3) and (f)(1) shall not apply to Marine Coatings or Pleasure Craft Coatings that are:
- (A) Shipped into the South Coast AQMD to be reformulated or repackaged for sale and use outside of the South Coast AQMD; or
 - (B) Temporarily being stored at a Facility and marked for use outside the South Coast AQMD jurisdiction.

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