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(Amended September 5, 2014)
(Amended [DATE OF RULE ADOPTION])

[RULE INDEX TO BE ADDED AFTER RULE ADOPTION]

**PROPOSED AMENDED RULE 1151-: MOTOR VEHICLE AND MOBILE
EQUIPMENT NON-ASSEMBLY LINE
COATING OPERATIONS**

- (a) Purpose
The purpose of this rule is to reduce ~~volatile organic compound~~Volatile Organic Compound (VOC) emissions, toxic air contaminants, stratospheric ozone-depleting compounds, and global-warming compound emissions from ~~automotive coating~~Automotive Coating applications performed on ~~motor vehicles~~Motor Vehicles, ~~mobile equipment~~Mobile Equipment, and ~~associated parts and components~~Associated Parts and Components.
- (b) Applicability
This rule is applicable to any person who supplies, sells, offers for sale, markets, manufactures, blends, packages, repackages, possesses, or distributes any ~~automotive coating~~Automotive Coating, Automotive Coating Component, or associated solvent for use within the ~~District~~South Coast AQMD, as well as any person who uses, applies, or solicits the use or application of any ~~automotive coating~~Automotive Coating or associated solvent within the ~~District~~South Coast AQMD.
- (c) Definitions
~~For the purpose of this rule, the following definitions shall apply:~~
- (1) ADHESION PROMOTER means any ~~automotive coating~~ Automotive Coating, specifically labeled and formulated to be applied to uncoated plastic surfaces to facilitate bonding of a subsequent ~~automotive coatings~~ Automotive Coating, and on which, a subsequent ~~automotive coating~~ Automotive Coating is applied.

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- (2) AEROSOL COATING PRODUCT means a pressurized ~~coating~~Coating product containing pigments or resins that dispenses product ingredients by means of a propellant, and is packaged in a disposable can for hand-held application, or for use in specialized equipment for ground traffic/marketing applications.
- (3) ASSEMBLY LINE means an arrangement of industrial equipment and workers in which the product passes from one specialized operation to another until complete, by either automatic or manual means.
- (4) ASSOCIATED PARTS AND COMPONENTS means structures, devices, pieces, modules, sections, assemblies, subassemblies, or elements of any ~~motor vehicle~~Motor Vehicle or ~~mobile equipment~~Mobile Equipment that are designed to be a part of any ~~motor vehicle~~Motor Vehicle or ~~mobile equipment~~Mobile Equipment but which are not attached to any ~~motor vehicle~~Motor Vehicle or ~~mobile equipment~~Mobile Equipment at the time of the application of an ~~automotive coating~~Automotive Coating to such structure, device, piece, module, section, assembly, subassembly, or element. -Associated ~~parts and components~~Parts and Components do not include circuit boards.
- (5) AUTOMOTIVE COATING means any ~~coating~~Coating used or recommended for use in motor vehicles, ~~mobile equipment~~Mobile Equipment or ~~associated parts and components~~Associated Parts and Components in refinishing, service, maintenance, repair, restoration, or modification, except metal plating activities. Automotive Coatings means the ready to spray Coating, as applied, which includes any Automotive Coating Component. -Any reference to automotive refinishing or ~~automotive coating~~Automotive Coating on the container or in product literature constitutes a recommendation for use in motor vehicle, ~~mobile equipment~~Mobile Equipment and ~~associated parts and components~~Associated Parts and Components refinishing.
- (6) AUTOMOTIVE COATING COMPONENT means any portion of a ~~coating~~Coating, including, but not limited to, a reducer or thinner, toner, hardener, and additive, which is recommended for use in an ~~automotive coating~~Automotive Coating, or which is used in an ~~automotive coating~~Automotive Coating. -The raw materials used to produce the components are not considered ~~automotive coating components~~Automotive Coating Components.

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- (7) AUTOMOTIVE GRAPHIC ARTS OPERATION means the application of logos, letters, designs, numbers, or graphics to a painted surface by brush, roller or airbrush.
- (8) AUTOMOTIVE REFINISHING FACILITY means any shop, business, location, or parcel of land where motor vehicles or ~~mobile equipment~~Mobile Equipment or their ~~associated—parts—and components~~Associated Parts and Components are coated, including autobody collision repair shops. ~~—Automotive—refinishing facility~~Automotive Refinishing Facility does not include the original equipment manufacturing plant where the motor vehicle or ~~mobile equipment~~Mobile Equipment is completely assembled.
- (9) CLEAR COATING means any ~~automotive coating~~Automotive Coating that is formulated with materials that do not impart color and is specifically labeled and formulated for application over a ~~color coating~~Color Coating or ~~clear coating~~Clear Coating.
- (10) COATING means a material which is applied to a surface and forms a film in order to beautify, preserve, repair, or protect such a surface.
- (11) COLOR COATING means any pigmented ~~automotive coating~~Automotive Coating, excluding automotive ~~adhesion promoters~~Adhesion Promoters, ~~and primers~~Primers, ~~and multi-color coatings~~, that require a subsequent ~~clear coating~~Clear Coating, and which is applied over a ~~primer~~Primer, ~~adhesion promoter~~ Adhesion Promoter or ~~color coating~~Color Coating. Color ~~coatings~~Coatings include ~~metallic/iridescent color coatings~~Metallic Color Coatings.
- (12) ELECTROSTATIC SPRAY APPLICATION means any method of spray application of ~~automotive coatings~~Automotive Coatings where an electrostatic attraction is created between the part to be coated and the paint particles.
- (13) EMISSION CONTROL SYSTEM means any combination of capture systems and control devices used to reduce VOC emissions from ~~automotive coating~~Automotive Coating operations.
- (14) EXEMPT COMPOUNDS are as defined in Rule 102-Definition of Terms (Rule 102).
- (15) GRAMS OF VOC PER LITER OF COATING LESS WATER AND LESS EXEMPT COMPOUNDS, ~~OR~~ (REGULATORY VOC), is the weight of

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VOC per combined volume of VOC and ~~coating~~Coating solids and shall be calculated by the following equation:

Grams of VOC per Liter of Coating, Less

$$\text{Water and Less Exempt Compounds} = \frac{W_{sv} - W_w - W_{esex}}{V_m - V_w - V_{esex}}$$

Where: W_{sv} = weight of volatile compounds in grams
 W_w = weight of water in grams
 W_{esex} = weight of ~~exempt—compounds~~Exempt Compounds in grams
 V_m = volume of material in liters
 V_w = volume of water in liters
 V_{esex} = volume of ~~exempt—compounds~~Exempt Compounds in liters

- (16) 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:

$$\text{Grams of VOC per Liter of Material} = \frac{W_{sv} - W_w - W_{esex}}{V_m}$$

Where: W_{sv} = weight of volatile compounds in grams
 W_w = weight of water in grams
 W_{esex} = weight of ~~exempt compounds~~Exempt Compounds in grams
 V_m = volume of material in liters

- (17) 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, (psig) air atomizing pressure measured dynamically at the center of the air cap and at the air horns.

- (18) MATTE-CLEAR COATING means any Automotive Coating that is formulated with materials that do not impart color and is specifically labeled and formulated for application over a Color Coating or a subsequent layer

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of a Matte-Clear Coating, which register a gloss of less than 40 units on a 60-degree meter, according to ASTM Test Method D523.

~~(18)~~(19) METALLIC/IRIDESCENT COLOR COATING means any ~~automotive coating~~Automotive Coating that contains more than 0.042 pounds per gallon (5 grams per liter) of metal ~~or iridescent particles~~ as applied, where such particles are visible in the dried film.

~~(19)~~(20) MOBILE EQUIPMENT means any device that may be drawn and/or driven on rails or a roadway including, but not limited to, trains, railcars, truck trailers, mobile cranes, bulldozers, street cleaners, and implements of husbandry or agriculture.

~~(20)~~(21) MOTOR VEHICLE means any self-propelled vehicle, including, but not limited to, motorcycles, passenger cars, light-duty trucks and vans, medium-duty and heavy-duty vehicles as defined in Section 1900, Title 13, of the California Administrative Code; ~~and. Additional examples include, but are not limited to,~~ buses, golf carts, tanks, and armored personnel carriers.

~~(21)~~ ~~MULTI-COLOR COATING means any automotive coating that exhibits more than one color in the dried film after a single application, is packaged in a single container, and hides surface defects on areas of heavy use, and which is applied over a primer or adhesion promoter.~~

~~(22)~~ PRETREATMENT COATING WASH PRIMER means any ~~automotive coating~~Automotive Coating that contains a minimum of ~~one-half (0.5)~~ percent acid by weight and not more than 16 percent solids by weight necessary to provide surface etching and that is specifically labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and adhesion.

~~(23)~~ PRIMER means any ~~automotive coating~~Automotive Coating that is specifically labeled and formulated for application to a substrate to provide 1) a bond between the substrate and subsequent coats, 2) corrosion resistance, 3) a smooth substrate surface, or 4) resistance to penetration of subsequent coats, and on which a subsequent ~~coating~~Coating is applied. Primers may be pigmented and include ~~weld-through primers~~Weld-through Primers, Primer Sealers, and Primer Surfacers.

~~(24)~~ PRIMER SEALER means any Coating applied prior to the application of a topcoat for the purpose of color uniformity, or to promote the ability of an underlying Coating to resist penetration by the topcoat.

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- ~~(23)~~(25) PRIMER SURFACER means any Coating applied for the purpose of corrosion resistance or adhesion, and which promotes a uniform surface by filling in surface imperfections.
- (26) PRIVATE LABELER is the person, company, firm, or establishment (other than the toll manufacturer) identified on the label of a Regulated Product.
- (27) READY-TO-SPRAY AUTOMOTIVE COATINGS means the Automotive Coatings, mixed with all Automotive Coating Components, based on the manufacturers' stated mix ratio.
- (28) REGULATED PRODUCT means any Automotive Coating, Automotive Coating Component, and any product with reference to automotive refinishing or Automotive Coating on the container or in product literature and with a recommendation for use in motor vehicle, Mobile Equipment, and Associated Parts and Components refinishing.
- ~~(24)~~(29) SINGLE-STAGE COATING means any pigmented ~~automotive coating~~Automotive Coating, (excluding automotive ~~adhesion promoters~~Adhesion Promoters, and ~~primers~~Primers—~~and—multi-color coatings~~), specifically labeled and formulated for application without a subsequent ~~clear coating~~Clear Coating and that are applied over an ~~adhesion promoter~~Adhesion Promoter, a ~~primer~~Primer, or a ~~color coating~~Color Coating. —Single-stage ~~coatings~~Coatings include single-stage ~~metallic/iridescent coatings~~Metallic/Iridescent Coatings.
- ~~(25)~~(30) SOLVENT CLEANING is as defined in Rule 1171 – Solvent Cleaning Operations (Rule 1171).
- (31) SOUTH COAST AQMD TEST METHOD means the test method included in the manual of “Laboratory Method of Analysis for Enforcement Samples” which can be found on the South Coast AQMD website.
- ~~(26)~~(32) SPOT REPAIR means repair of an area on a motor vehicle, ~~mobile equipment~~Mobile Equipment, or associated parts or components of less than one square foot (929 square centimeters).
- ~~(27)~~(33) TEMPORARY PROTECTIVE COATING means any ~~automotive coating~~Automotive Coating specifically labeled and formulated for the purpose of temporarily protecting areas from overspray or mechanical damage.
- ~~(28)~~(34) TRANSFER EFFICIENCY means the amount of ~~coating~~Coating solids adhering to the object being coated divided by the total amount of

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~~automotive-coating~~Automotive Coating solids sprayed, expressed as a percentage.

~~(29)~~(35) TRUCK BED LINER COATING means any ~~automotive coating~~Automotive Coating, excluding color, ~~multi-color,~~ and ~~single-stage coatings~~Single-stage Coatings, specifically labeled and formulated for application to a truck bed to protect it from surface abrasion.

~~(30)~~(36) UNDERBODY COATING means any ~~automotive coating~~Automotive Coating specifically labeled and formulated for application to wheel wells, the inside of door panels or fenders, the underside of a trunk or hood, or the underside of the motor vehicle.

~~(31)~~(37) UNIFORM FINISH COATING means any ~~automotive coating~~Automotive Coating specifically labeled and formulated for application to the area around a ~~spot-repair~~Spot Repair for the purpose of blending a repaired area's color or clear coat to match the appearance of an adjacent area's existing ~~coating~~Coating.

~~(32)~~(38) VOLATILE ORGANIC COMPOUND (VOC) is as defined in Rule 102-~~Definition of Terms~~. ~~For the purpose of this rule, tertiary butyl acetate (TBAC) is not a VOC when used in automotive coatings other than color coatings and clear coatings.~~

~~The Executive Officer shall conduct a technical assessment on the use of TBAC as a non-VOC by December 31, 2016. In conducting the technical assessment, the Executive Officer shall consider all information available to the SCAQMD on TBAC including, toxicity, carcinogenic and health risk assessment studies. The Executive Office shall report to the Governing Board as to the appropriateness of maintaining TBAC as a non-VOC.~~

~~(33)~~(39) WELD-THROUGH PRIMER means an ~~automotive coating~~Automotive Coating designed and labeled exclusively to provide a bridging or conducting effect for corrosion protection following welding.

(d) Requirements

(1) A person shall not apply any ~~automotive-coating~~Automotive Coating to a ~~motor-vehicle~~Motor Vehicle, ~~mobile-equipment~~Mobile Equipment, or ~~associated parts or components~~Associated Parts or Components of a ~~motor vehicle~~Motor Vehicle or ~~mobile-equipment~~Mobile Equipment that contains VOC in excess of the limits specified in the Table of Standards ~~below~~. Compliance with the applicable VOC content limits shall be based on VOC

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content, including any material added to the original ~~automotive-coating~~
Automotive Coating supplied by the manufacturer, as applied, less water
and ~~exempt-compounds~~Exempt Compounds. Automotive Coatings
formulated to meet Phase I and Phase II VOC limits shall not contain more
than 0.01 weight percent of para-Chlorobenzotrifluoride (pCBtF) or
tert-Butyl Acetate (t-BAc).

**Table 1- TABLE OF STANDARDS
Regulatory VOC Content Limits and Effective Dates**

<u>Coating Categories</u>	<u>Current Limits⁽¹⁾</u>		<u>Phase I [Date of Rule Adoption]</u>		<u>Phase II</u>		
	<u>g/L</u>	<u>lb/gal</u>	<u>g/L</u>	<u>lb/gal</u>	<u>g/L</u>	<u>lb/gal</u>	<u>Effective Date</u>
<u>Adhesion Promoter</u>	<u>540</u>	<u>4.5</u>	<u>840</u>	<u>7.0</u>	<u>720</u>	<u>6.0</u>	<u>1/1/2028</u>
<u>Clear Coating</u>	<u>250</u>	<u>2.1</u>	<u>520</u>	<u>4.3</u>	<u>250</u>	<u>2.1</u>	<u>1/1/2030</u>
<u>Matte-Clear Coating</u>	<u>250</u>	<u>2.1</u>	<u>550</u>	<u>4.6</u>	<u>520</u>	<u>4.3</u>	<u>1/1/2030</u>
<u>Color Coating</u>	<u>420</u>	<u>3.5</u>	<u>420</u>	<u>3.5</u>	<u>250</u>	<u>2.1</u>	<u>1/1/2028</u>
<u>Metallic Color Coating</u>	<u>420</u>	<u>3.5</u>					
<u>Pretreatment Wash</u>							
<u>Primer</u>	<u>660</u>	<u>5.5</u>	<u>780</u>	<u>6.5</u>			
<u>Primer Sealer</u>	<u>250</u>	<u>2.1</u>	<u>580</u>	<u>4.8</u>	<u>250</u>	<u>2.1</u>	<u>1/1/2028</u>
<u>Primer Surfacer</u>	<u>250</u>	<u>2.1</u>	<u>550</u>	<u>4.6</u>	<u>250</u>	<u>2.1</u>	<u>1/1/2028</u>
<u>Single-Stage Coating</u>	<u>340</u>	<u>2.8</u>	<u>600</u>	<u>5.0</u>	<u>340</u>	<u>2.8</u>	<u>1/1/2028</u>
<u>Temporary Protective Coating</u>	<u>60</u>	<u>0.5</u>					
<u>Truck Bed Liner Coating</u>	<u>310</u>	<u>2.6</u>					
<u>Underbody Coating</u>	<u>430</u>	<u>3.6</u>					
<u>Uniform Finishing Coating</u>	<u>540</u>	<u>4.5</u>					
<u>Any Other Coating Type</u>	<u>250</u>	<u>2.1</u>					

¹ The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

VOC CONTENT LIMITS		
Grams per Liter of Coating, Less Water and Less Exempt Compounds		
AUTOMOTIVE COATING CATEGORIES	Current Limit	
	g/L	Lb/Gal
Adhesion Promoter	540	4.5
Clear Coating	250	2.1
Color Coating	420	3.5
Multi-Color Coating	680	5.7
Pretreatment Coating	660	5.5

Primer	250	2.1
Single-Stage Coating	340	2.8
Temporary Protective Coating	60	0.5
Truck Bed Liner Coating	310	2.6
Underbody Coating	430	3.6
Uniform Finishing Coating	540	4.5
Any Other Coating Type	250	2.1

(2) Most Restrictive ~~VOC Limit~~Coating Category

If anywhere on the container of any Automotive Coating; on any sticker or label affixed thereto; or in any sales, advertising, or technical literature, any representation or information ~~on the container of any automotive coating, or on any label or sticker affixed to the container, or in any sales, advertising, or technical literature,~~ indicates that the automotive coating~~Automotive Coating~~ may be used as, or is suitable for use as, ~~meets the definition of or is recommended for use for~~ more than one of the ~~automotive coating~~Automotive Coating categories listed in ~~paragraph (d)(1)~~Table 1 – Table of Standards (Table 1), then the lowest VOC content limit shall apply.

~~(3) Alternative Compliance~~

~~(A) Emission Control System~~

~~A person may comply with the provisions of paragraph (d)(1), by using an approved emission control system, consisting of collection and control devices, provided such emission control system is approved pursuant to Rule 203 Permit to Operate, in writing, by the Executive Officer for reducing emissions of VOC. The Executive Officer shall approve such emission control system only if the VOC emissions resulting from the use of non-compliant automotive coatings will be reduced to a level equivalent to or lower than that which would have been achieved by the compliance with the terms of paragraph (d)(1). The required efficiency of an emission control system at which an equivalent or greater level of VOC emission reduction will be achieved shall be calculated by the following equation:~~

$$C.E. = \left[1 - \left\{ \frac{(VOC_{LWc})}{(VOC_{LWn,Max})} \times \frac{1 - (VOC_{LWn,Max}/D_{n,Max})}{1 - (VOC_{LWc}/D_c)} \right\} \right] \times 100$$

Where:

C.E.	=	Control Efficiency, percent
VOC_{LWe}	=	VOC Limit of Rule 1151, less water and less exempt compounds, pursuant to paragraph (d)(1).
VOC_{LWn,Max}	=	Maximum VOC content of non-compliant automotive coating used in conjunction with a control device, less water and exempt compounds.
D_{n,Max}	=	Density of VOC solvent, reducer, or thinner contained in the non-compliant automotive coating containing the maximum VOC.
D_e	=	Density of corresponding VOC solvent, reducer, or thinner used in the compliant automotive coating system = 880 g/L.

~~(B) — Alternative Emission Control Plan~~

~~A person may comply with the provisions of paragraph (d)(1) by means of an Alternative Emissions Control Plan, pursuant to Rule 108 — Alternative Emissions Control Plans.~~

~~(3) — Exempt Compounds~~

~~A person shall not manufacture, sell, offer for sale, distribute for use in the District, or apply any automotive coating which contains any Group II Exempt Compounds as defined in Rule 102.~~

~~(4) — Carcinogenic Materials~~

~~A person shall not manufacture automotive coatings for use in the SCAQMD in which cadmium or hexavalent chromium was introduced as a pigment or as an agent to impart any property or characteristic to the automotive coatings during manufacturing, distribution, or use of the applicable automotive coatings.~~

(3) Alternative VOC limits for Color Coatings and Metallic Color Coatings

In lieu of complying with the Phase I Color Coating VOC limit and until the Phase II Color Coating VOC limit effective date, a person may elect to apply a Color Coating or Metallic Color Coating supplied in half-pint or smaller containers, provided the Regulatory VOC content is no more than

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600 g/L and the Color Coating does not contain more than 0.01 percent by weight of pCBtF or t-BAc.

(4) Sell-Through and Use-Through Provision

Any Automotive Coating that is manufactured prior to the effective date of the applicable limit specified in Table 1, and that has a VOC content above that limit (but not above the limit in effect on the date of manufacture), may be sold, supplied, or offered for sale for up to 18 months after the specified effective date and used up to 24 months after the specified effective date.

~~(6)~~(5) Transfer Efficiency

~~(A)~~—A person shall ~~not~~ apply ~~automotive coatings~~ Automotive Coatings to any ~~motor vehicle~~ Motor Vehicle, ~~mobile equipment~~ Mobile Equipment or any ~~associated parts or components~~ Associated Parts or Components to a ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment with properly operating equipment, operated according to procedures recommended by the manufacturer, and in compliance with applicable permit conditions, if any, except by ~~the use of~~ one of the following methods:

~~(i)~~(A) electrostatic application Electrostatic Spray Application, ~~or~~

~~(ii)~~(B) high volume, low pressure (HVLP) spray, ~~or~~

~~(iii)~~(C) brush, dip, or roller, ~~or~~

~~(iv)~~(D) Spray gun application, provided the owner or operator demonstrates that the spray gun meets the HVLP definition in paragraph (c)(17) in design and use. A satisfactory demonstration must be based on:

(i) the ~~The~~ manufacturer's published technical material on the design of the spray gun; and

(ii) by a demonstration of t ~~The~~ operation of the spray gun using an air pressure tip gauge from the manufacturer of the spray gun; and

~~(v)~~(E) Any such other automotive coating Automotive Coating application methods as demonstrated, in accordance with the provisions of ~~subparagraph (h)(1)(F)(i)(6)~~, to be capable of achieving equivalent or better ~~transfer efficiency~~ Transfer Efficiency than the ~~automotive coating~~ Automotive Coating application method listed in ~~clause (d)(6)(A)(ii)~~ subparagraph (d)(5)(B), provided written approval is obtained from the Executive Officer prior to use.

~~(7)~~(6) Solvent Cleaning, Storage and Disposal of VOC-Containing Materials;

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Solvent ~~cleaning~~Cleaning of application equipment, parts, products, tools, machinery, equipment, general work areas, and the storage and disposal of VOC-containing materials used in cleaning operations shall be carried out pursuant to South Coast AQMD Rule 1171—~~Solvent Cleaning Operations~~.

(e) Alternative Compliance Options

(1) Emission Control System

A person may comply with the provisions of paragraph (d)(1), by using an approved Emission Control System, consisting of collection and control devices, provided such Emission Control System is approved pursuant to Rule 203 – Permit to Operate, in writing, by the Executive Officer for reducing VOC emissions. The Executive Officer shall approve such Emission Control System only if the VOC emissions resulting from the use of non-compliant Automotive Coatings will be reduced to a level equivalent to or lower than that which would have been achieved by compliance with the terms of paragraph (d)(1). The required efficiency of an Emission Control System at which an equivalent or greater level of VOC emission reduction will be achieved shall be calculated by the following equation:

$$\underline{C.E. = \left[1 - \left\{ \frac{(VOC_{LWc})}{(VOC_{LWn,Max})} \times \frac{1 - (VOC_{LWn,Max}/D_{n,Max})}{1 - (VOC_{LWc}/D_c)} \right\} \right] \times 100}$$

Where:

<u>C.E.</u>	<u>≡</u>	<u>Control Efficiency, percent</u>
<u>VOC_{LWc}</u>	<u>≡</u>	<u>VOC Limit of Rule 1151, less water and less Exempt Compounds, pursuant to paragraph (d)(1).</u>
<u>VOC_{LWn,Max}</u>	<u>≡</u>	<u>Maximum VOC content of non-compliant Automotive Coating used in conjunction with a control device, less water and Exempt Compounds.</u>
<u>D_{n,Max}</u>	<u>≡</u>	<u>Density of VOC solvent, reducer, or thinner contained in the non-compliant Automotive Coating containing the maximum VOC.</u>

D_c ≡ Density of corresponding VOC solvent, reducer, or thinner used in the compliant Automotive Coating system = 880 g/L.

(2) Alternative Emission Control Plan

A person may comply with the provisions of paragraph (d)(1) by means of an Alternative Emissions Control Plan, pursuant to Rule 108 – Alternative Emissions Control Plans.

(~~e~~f) Prohibition of Possession, Specification, ~~and~~ Sale or Use

(1) ~~For the purpose of this rule, n~~No person that applies ~~automotive coatings~~ Automotive Coatings subject to this rule shall possess any ~~automotive coating~~ Automotive Coating that ~~does is~~ is not ~~in compliance~~ compliance with the requirements of paragraph (d)(1) when mixed with any Automotive Coating Component (as applied), unless one or more of the following conditions apply:

- (A) The ~~automotive coating~~ Automotive Coating is for use at a facility that utilizes an approved ~~emission control device~~ Emission Control System pursuant to ~~subparagraph (d)(3)(A)~~ (e)(1) and the ~~coating~~ Coating meets the limits specified in permit conditions.
- (B) The ~~automotive coating~~ Automotive Coating is for use at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)~~ (e)(2), and the ~~automotive coating~~ Automotive Coating is specified in the plan.
- (C) The ~~automotive coating~~ Automotive Coating is for use at a training center and the ~~automotive coating~~ Automotive Coating is used for educational purposes, provided that the VOC emissions from all automotive coatings Automotive Coatings not meeting the VOC limits of paragraph (d)(1) do not exceed twelve (12) pounds per day.
- (D) The ~~automotive coating~~ Automotive Coating is for use at a prototype ~~motor vehicle~~ Motor Vehicle manufacturing facility and the ~~automotive coating~~ Automotive Coating is supplied by an ~~assembly-line~~ Assembly-Line ~~motor vehicle~~ Motor Vehicle manufacturer specifically for use in the refinishing of a prototype ~~motor vehicle~~ Motor Vehicle, provided that the VOC emissions from all ~~automotive coatings~~ Automotive Coatings not meeting the VOC

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limits of paragraph (d)(1) do not exceed ~~twenty-one (21)~~ pounds per day and 930 pounds in any one calendar year.

- (2) ~~For the purpose of this rule, no~~ No person shall solicit from, specify, or require any other person to use in the ~~District South Coast AQMD~~ any ~~automotive coating~~Automotive Coating which, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not meet the:

(A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:

(i) The ~~automotive coating~~Automotive Coating is located at a facility that utilizes an approved ~~emission—control device~~Emission Control System pursuant to ~~subparagraph (d)(3)(A)(e)(1)~~, and the ~~automotive—coating~~Automotive Coating meets the limits specified in permit conditions; ~~or,~~

(ii) The ~~automotive coating~~Automotive Coating is located at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)(e)(2)~~, and the ~~automotive coating~~Automotive Coating is specified in the plan; or

(iii) The ~~automotive coating~~Automotive Coating is specifically exempt pursuant to subdivision ~~(j)~~(k) of this rule;.

(B) The requirements of paragraphs ~~(d)(4)(f)(7)~~ and ~~(d)(5)(f)(8)~~.

- (3) ~~For the purpose of this rule, no~~ No person shall supply, sell, offer for sale, market, blend, package, repackage or distribute any ~~automotive coating~~Automotive Coating for use within the ~~District South Coast AQMD~~ subject to the provisions in this rule which, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not meet the:

(A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:

(i) The ~~automotive coating~~Automotive Coating is for use at a facility that utilizes an approved ~~emission—control device~~Emission Control System pursuant to ~~subparagraph (d)(3)(A)(e)(1)~~, and the ~~coating~~Coating meets the limits specified in permit conditions; ~~or,~~

- ~~(ii) — The automotive coating is specifically exempt under subdivision (j) of this rule; or,~~
- (iii) The ~~automotive coating~~Automotive Coating is for use at a facility that operates in accordance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)(e)(2),~~ and the ~~automotive coating~~ Automotive Coating is specified in the plan; or
- (iii) The Automotive Coating is specifically exempt under subdivision (k); ; and,
- ~~(iv) — The person that supplies, sells, offers for sale, markets, blends, packages, repackages or distributes the automotive coating keeps the following records for at least five years and makes them available to the Executive Officer upon request:~~
 - ~~(I) — Automotive coating name and manufacturer;~~
 - ~~(II) — Application method as recommended;~~
 - ~~(III) — Automotive coating category and mix ratio specific to the automotive coating;~~
 - ~~(IV) — VOC content of the automotive coating;~~
 - ~~(V) — Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data sheets that demonstrate that the material is intended for use as an automotive coating;~~
 - ~~(VI) — Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, which list the VOC content of each ready to spray automotive coating (based on the manufacturer's stated mix ratio) and automotive coating components and VOC content of each solvent; and~~
 - ~~(VII) — Purchase records identifying the automotive coating category, name, and volume of automotive coatings.~~
 - ~~(VIII) — In addition, for sale to an end user, the name and address of the person receiving the automotive coating, an acknowledgement warranting that the sale to an end user will comply with this paragraph,~~

~~including if use is for outside the District, and acknowledgement by the purchaser that this statement is correct.~~

(B) The requirements of paragraphs ~~(d)(4)(f)(7)~~ and ~~(d)(5)(f)(8)~~.

(4) ~~For the purpose of this rule, no~~ No person shall solicit from, specify, require, offer for sale, sell, or distribute to any other person for use in the South Coast AQMD ~~District~~ any ~~automotive coating~~Automotive Coating application equipment which does not meet the requirements of subparagraph ~~(d)(6)(A)(d)(5)~~.

(5) ~~For the purpose of this rule, no~~ 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 the person ~~offering for sale, selling, marketing or distributing the HVLP spray gun for use within the SCAQMD~~ provides accurate information to the spray gun recipient ~~on~~ regarding the maximum inlet air pressure to the spray gun which would result in a maximum air pressure of 10 ~~pounds per square inch gauge (psig)~~ air pressure, measured dynamically at the center of the air cap and at the air horns, based on:

(A) ~~the~~The manufacturer's published technical material on the design of the spray application equipment; ~~and~~

(B) ~~by~~By a demonstration of the operation of the spray application equipment using an air pressure tip gauge from the manufacturer of the gun; ~~and~~

(C) The information required pursuant to subparagraphs (g)(5)(A) and (g)(5)(B) shall either be permanently marked on the gun, or provided on the company's letterhead or in the form of technical literature which clearly identifies the spray gun manufacturer, the seller, or the distributor.

(6) ~~For the purpose of this rule, the~~ The requirements of paragraphs ~~(e)(1), (e)(2), (e)(3) or (e)(4)~~ (f)(1) through (f)(4) shall apply to all written or oral agreements executed and entered into under the terms of which an ~~automotive coating~~Automotive Coating or an ~~automotive coating~~Automotive Coating application equipment shall be used at any location within the ~~District~~ South Coast AQMD.

(7) Carcinogenic Materials

A person shall not manufacture Regulated Products for use in the South Coast AQMD in which cadmium or hexavalent chromium was introduced

as a pigment or as an agent to impart any property or characteristic to the Automotive Coatings during manufacturing, distribution, or use of the applicable Automotive Coatings.

(8) Exempt Compounds

No person shall use, supply, sell, or offer for sale a Regulated Product into or within the South Coast AQMD that contains more than 0.01 percent by weight of the following chemicals:

- (A) Chloroform, ethylene dichloride, methylene chloride, perchloroethylene, trichloroethylene;
- (B) Group II Exempt Compounds, excluding cyclic, branched, or linear, completely methylated siloxanes;
- (C) pCBtF and t-BAc for Regulated Products subject to the applicable Phase I or Phase II VOC limits; or
- (D) pCBtF and t-BAc pursuant to the applicable effective dates in Table 2.

Table 2: pCBtF and t-BAc Prohibition Timeline

<u>Prohibition Effective Date</u>	<u>Sell-through End Date</u>	<u>Use-through End Date</u>
<u>January 1, 2025</u>	<u>January 1, 2026</u>	<u>July 1, 2027</u>

(f) Recordkeeping Requirements

(1) Recordkeeping for VOC Emissions

Records of ~~automotive coating~~Automotive Coating usage shall be maintained pursuant to South Coast AQMD Rule 109 – Recordkeeping for Volatile Organic Compound Emissions, and shall at a minimum include the following information:

- (A) ~~Material~~Automotive Coating and Automotive Coating Component name and manufacturer;
- (B) Application method as recommended;
- (C) Automotive ~~coating~~Coating category and mix ratio specific to the ~~coating~~Automotive Coating;
- (D) Actual VOC and regulatory VOC content, ~~for~~of the ~~automotive coating~~Automotive Coating and Automotive Coating Component;
- (E) Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data

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sheets that indicate the material is intended for use as an ~~automotive coating~~Automotive Coating or ~~solvent~~ Automotive Coating Component;

- (F) Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, which list the actual VOC and regulatory VOC, for each ~~ready-to-spray~~Ready-to-Spray ~~automotive coating~~Automotive Coating ~~(based on the manufacturer's stated mix ratio)~~, ~~automotive coating~~Automotive Coating ~~components~~Components, and the ~~VOC content for each solvent~~; and,
- (G) Purchase records identifying the ~~automotive coating~~Automotive Coating category, name, and the total volume of all ~~coatings~~Automotive Coatings and ~~solvents~~Automotive Coating Components used.

(2) Recordkeeping Requirements for Emission Control System

Any person using an ~~emission control system~~Emission Control System shall maintain daily records of key system operating parameters which will demonstrate continuous operation and compliance of the ~~emission control system~~Emission Control System during periods of VOC emission producing activities.— “Key system operating parameters” are those parameters necessary to ensure or document compliance with ~~subparagraph (d)(3)(A)~~(e)(1), including, but not limited to, temperatures, pressure drops, and air flow rates.

(3) Recordkeeping Requirements for Coatings complying with paragraph (f)(3)

Any person that supplies, sells, offers for sale, markets, blends, packages, repackages or distributes Automotive Coatings that exceed the VOC limits in paragraph (d)(1) by complying with paragraph (f)(3) shall keep the following records for at least five years and make them available to the Executive Officer upon request:

- (A) Automotive Coating and Automotive Coating Component name and manufacturer;
- (B) Application method as recommended;
- (C) Automotive Coating category and mix ratio specific to the Automotive Coating;
- (D) Actual VOC and regulatory VOC content of the Automotive Coating and Automotive Coating Component;

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- (E) Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data sheets that demonstrate that the material is intended for use as an Automotive Coating or Automotive Coating Component;
- (F) Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, which list the actual VOC and regulatory VOC content of each Ready-to-Spray Automotive Coating and Automotive Coating Components;
- (G) Purchase records identifying the Automotive Coating category, name, and the total volume of all Automotive Coatings and Automotive Coating Component; and
- (H) For sale to an end-user:
 - (i) The name and address of the person receiving the Automotive Coating;
 - (ii) An acknowledgement warranting that the sale to an end-user will comply with paragraph (f)(3); and
 - (iii) If the Coating is for use outside the South Coast AQMD, acknowledgement by the purchaser that this statement is correct.

(gh) Administrative and Reporting Requirements for Automotive Coating Manufacturers

(1) Compliance Statement Requirement

For each individual ~~automotive coating~~Automotive Coating, ~~automotive coating component~~Automotive Coating Component, and ready to spray mixture (based on the manufacturers stated mix ratio), the manufacturer shall include the following information on a product data sheet, or an equivalent medium:

- (A) The actual VOC and regulatory VOC for ~~automotive coatings~~Automotive Coatings (in grams per liter);
- (B) The weight percentage of volatiles, water, and ~~exempt compounds~~Exempt Compounds; and,
- (C) The density of the material (in grams per liter).

(2) Labeling Requirements for Coating Manufacturers

~~(A)~~—The manufacturer of ~~automotive coatings~~Automotive Coatings or ~~automotive coating components~~Automotive Coating Components,

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including hardeners, with the exception of solvents such as reducers and thinners, shall include on all containers:

(A) ~~The applicable use—automotive—coating~~Automotive Coating category; ~~and~~

(B) ~~The actual VOC and regulatory VOC content, as supplied (in grams of VOC per liter of material and in grams of VOC per liter of material, less water and exempt compounds~~Exempt Compounds);
and

(C) On and after [12 months from Date of Rule Adoption], any Automotive Coatings and Automotive Coating Components shall display the date of manufacture of the Automotive Coating or a code indicating the date of manufacture. The manufacturers shall file an explanation of each code with the Executive Officer.

~~(B)~~(3) The manufacturer of solvents, including reducers and thinners, subject to this rule shall include on all containers the actual VOC for solvents, as supplied (in grams of VOC per liter of material).

(4) General Quantity and Emission Report (QER)

The manufacturer or private labeler of Regulated Products shall submit to the South Coast AQMD a QER for Regulated Product sales into or within the South Coast AQMD according to the schedule in Table 3. The QER for a manufacturer or private labeler of Regulated Products shall include the following information:

(A) Product manufacturer (as listed on the label);

(B) Product name and code;

(C) Applicable Rule 1151 category;

(D) Actual VOC and Regulatory VOC content;

(E) Whether the product is waterborne or solvent-based;

(F) Total annual volume sold into or within the South Coast AQMD, including products sold through distribution centers located within or outside the South Coast AQMD, reported in gallons for all container sizes;

(G) For any Regulated Product with VOC content higher than the applicable VOC content limits in paragraph (d)(1), indicate whether the product has been sold under any of the following provision:

(i) Sell-through provision pursuant to subparagraph (f)(8)(D);

(ii) Exempted pursuant to subdivision (k); or

(iii) Complying with subdivision (e).

(H) For multicomponent Automotive Coatings, each line item shall report the information required pursuant to subparagraph (h)(4)(A) – (G) for all of the components mixed in the Ready-to-Spray Automotive Coatings, separated by a slash, and include the Actual VOC and Regulatory VOC content of the Ready-to-Spray Automotive Coating.

(4) QER Reporting Timeline

A manufacturer and Private Labeler of Regulated Products shall submit the QER required pursuant to paragraph (h)(3) according to the reporting timeline in Table 3:

Table 3 - Reporting Timeline

<u>Reporting Deadlines</u>	<u>Reported Years</u>
<u>Manufacturers & Private Labelers</u>	
<u>September 1, 2030</u>	<u>2028, 2029</u>
<u>September 1, 2035</u>	<u>2033, 2034</u>
<u>September 1, 2040</u>	<u>2038, 2039</u>

(h) Test Methods

(1) ~~Methods of Analysis~~

~~For the purpose of this rule, the following test methods shall be used:~~

~~(A) VOC Content of Automotive Coatings~~

~~(i) The VOC content of Automotive Coatings shall be determined by:~~

~~(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 with the) . The exempt compounds Exempt Compounds' content shall be determined by South Coast Air Quality Management District (South Coast AQMD) Laboratory Test Method 303 (Determination of Exempt Compounds) contained in the South Coast AQMD "Laboratory Method of Analysis for Enforcement Samples" manual; or~~

~~(B) South Coast AQMD Test Method 304 (- Determination of Volatile Organic Compounds (VOCs) in Various Materials) contained in the~~

~~South Coast AQMD “Laboratory Method of Analysis for Enforcement Samples” manual.~~

(B2) Exempt Perfluorocarbon Compounds

The following classes of compounds shall be analyzed as Exempt Compounds for compliance with paragraph (d)(1), only at such time as manufacturers specify which individual compounds are used in the formulation of the Automotive Coating and identify the test methods, which have been approved by the U.S. EPA, California Air Resources Board (CARB) and the South Coast AQMD prior to such analysis, that can be used to quantify the amounts of each exempt compound:

(A) ~~eyelic~~Cyclic, branched, or linear, completely fluorinated alkanes;

(B) ~~eyelic~~Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;

(C) ~~eyelic~~Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and

(D) ~~sulfur~~Sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine;

~~shall be analyzed as exempt compounds for compliance with paragraph (d)(1), only at such time as manufacturers specify which individual compounds are used in the formulation of the automotive coatings and identify the test methods, which have been approved by the U.S. EPA, CARB and the SCAQMD prior to such analysis, that can be used to quantify the amounts of each exempt compound.~~

(C3) Determination of ~~Iridescent~~Metallic Particles in Metallic/~~Iridescent~~ Color Coatings

The metal ~~and silicon~~ content of metallic/~~iridescent coatings~~ Color Coatings shall be determined by South Coast AQMD Test Method 311 - ~~(Determination of Percent Metal in Metallic Coatings by Spectrographic Method)~~ ~~contained in the SCAQMD “Laboratory Method of Analysis for Enforcement Samples” manual.~~

(D4) Acid Content in Pretreatment Automotive Coatings

The acid content of ~~pretreatment automotive coatings~~Pretreatment Wash Primers shall be determined by ASTM Test Method D1613-~~06 (2012)~~ - (Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and related products).

(E5) ~~Reflectance of Anti-Glare Safety Automotive Coatings~~Gloss Determination

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The ~~reflectance of anti-glare safety gloss of automotive coatings~~Automotive Coatings shall be determined by ASTM Test Method D-523-~~08(-~~Specular Gloss).

~~(F6)~~ Transfer Efficiency

The ~~transfer efficiency~~Transfer Efficiency of alternative ~~automotive coating~~Automotive Coating application methods, as defined by ~~clause (d)(6)(A)(v)~~subparagraph (d)(5)(E), shall be determined in accordance with the most current versions of the South Coast AQMD method “Spray Equipment Transfer Efficiency Test Procedure for Equipment User, ~~May 24, 1989,~~” and South Coast AQMD “Guidelines for Demonstrating Equivalency With District Approved Transfer Efficiency Spray Gun ~~September 26, 2002.~~”

~~(G)~~—Equivalent Test Methods

~~Other test methods determined to be equivalent by the Executive Officer, CARB, and the U.S. EPA, and approved in writing by the Executive Officer may also be used.~~

~~(28)~~ Determination of Efficiency of Emission Control Systems

~~(A)~~—A person that elects to comply with the provision of paragraph (d)(1) using an ~~The efficiency of the collection device of an emission control system~~Emission Control System as specified in ~~subparagraph (d)(3)(A)~~ (e)(1) shall ~~be determined by the methods specified below:~~

(A) Determine the efficiency of the collection device in the Emission Control System:

- (i) U.S. EPA method cited in 55 Federal Register (FR) 26865, June 29, 1990; ~~or~~
- (ii) South Coast AQMD’s “Protocol for Determination of Volatile Organic Compounds (VOC) Capture Efficiency”;
or
- (iii) Any other method approved by the U.S. EPA, CARB, and the District Executive Officer;~~;~~

~~(B)~~ Determine ~~The the~~ efficiency ~~of the control device of an emission control system as specified in subparagraph (d)(3)(A)~~ and the VOC content in the control device in the Emission Control System exhaust gases, measured and calculated as carbon, ~~shall be determined~~ by:

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(i) -U. S. EPA Test Methods 25 - Determination of Total Gaseous Nonmethane Organic Emissions as Carbon;

(ii) U. S. EPA Test Method 25A - Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer; ~~or~~

(iii) South Coast AQMD Method 25.1 - (Determination of Total Gaseous Non-Methane Organic Emissions as Carbon); ~~as applicable; or~~

(iv) South Coast AQMD Method 25.3 - Determination of Low Concentration Non-Methane Non-Ethane Organic Compound Emissions from Clean Fueled Combustion Sources.

(C) Determine emissions of Exempt Compounds by:

(i) U.S. EPA Test Method 18 – Volatile Organic Compounds by Gas Chromatography; or

(ii) CARB Method 422 – Determination of Volatile Organic Compounds in Emissions from Stationary Sources~~shall be used to determine emissions of exempt compounds.~~

(9) Equivalent Test Methods

Other test methods determined to be equivalent by the Executive Officer, CARB, and the U.S. EPA, and approved in writing by the Executive Officer may also be used.

(310) 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.

(i) Rule 442 Applicability

Any ~~automotive-coating~~Automotive Coating, ~~automotive-coating~~Automotive Coating operation or facility which is exempt pursuant to subdivision (jk) from all or a portion of the VOC limits of subdivision (d) shall comply with the provisions of Rule 442 – Usage of Solvents.

(jk) Exemptions

(1) ~~This~~The provision of this rule shall not apply to:

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- (A) Any ~~automotive coating~~Automotive Coating applied to motor vehicles or ~~mobile equipment~~Mobile Equipment, or their ~~associated parts and components~~Associated Parts and Components, during manufacture on an ~~assembly line~~Assembly Line that is subject to a VOC limit in Rule 1115 - Motor Vehicle Assembly Line Coating Operations;
 - (B) Any ~~automotive coating~~Automotive Coating that is expressly offered for sale, sold, or manufactured for use outside of the ~~District~~South Coast AQMD or that is for shipment to other manufacturers for reformulation or repackaging;
 - (C) Any ~~aerosol coating product~~Aerosol Coating Product; and
 - (D) Any ~~automotive coating~~Automotive Coating that is supplied, sold, offered for sale, marketed, manufactured, blended, packaged or repackaged for use in the ~~District~~South Coast AQMD in 0.5 fluid ounces or smaller containers.
- (2) The requirements of paragraph (d)(1) shall not apply to ~~automotive coatings~~Automotive Coatings applied for educational purposes at ~~automotive coating~~Automotive Coating training centers, which are owned and operated by ~~automotive coating~~Automotive Coating manufacturers, provided that the VOC emissions emitted at ~~the automotive coating~~Automotive Coating training center from all automotive coatingsAutomotive Coatings not complying with paragraph (d)(1) do not exceed twelve (12) pounds per day.
- (3) The requirements of paragraph (d)(1) shall not apply to ~~automotive coatings~~Automotive Coatings supplied by an assembly-line motor vehicle manufacturer for use by a prototype motor vehicle manufacturing facility in the finishing of a prototype motor vehicle, provided that the VOC emissions at the prototype motor vehicle manufacturing facility from ~~all such topcoats~~Automotive Coatings not meeting the VOC limits of paragraph (d)(1) do not exceed 21 pounds ~~per in a calendar~~-day and 930 pounds in any one calendar year.
- (4) The requirements of ~~subparagraph (d)(6)(A)~~(d)(5) shall not apply to ~~automotive graphic arts operations~~Automotive Graphic Arts Operation, ~~truck bed liner coatings~~Truck Bed Liner Coatings, or ~~underbody coatings~~Underbody Coatings.