Internal Use Only
App# APCD2015-APP-

Coating Processes

AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

A. PROCESS DESCRIPTION

Product(s)/Surface(s) Coated:_____

Please identify all product coating operations that apply:

☐ Miscellaneous surfaces, not subject to other coating rules and subject to Rule 66.1.

☐ Metal parts and products coating operations subject to Rule 67.3

☐ Aerospace component, as defined in Rule 67.9(c) (i.e. any raw material, partial or completed fabricated part, assembly of parts or completed unit of any aircraft, helicopter, missile or space vehicle, including mockups, test panels and prototypes)

☐ Wood Coating, as defined in Rule 67.11 (c)

☐ Marine and fresh water vessels, oil drilling platforms, navigational aids and component parts and structures intended for exposure to a marine environment, as defined in Rule 67.18 (c)

☐ Motor vehicles, mobile equipment, non-motorized models, and their associated parts and components, as defined in Rule 67.20.1(c)(28)

1) Explanation of Process: What is the product? What processes are being conducted? Where will volatile organic compound (VOC) and toxic air contaminant (TAC) emissions occur? Are there related processes, for example are you manufacturing with composite materials in addition to coating? What steps are required? Include a process flow diagram if possible.

_____

_____

If this is an existing permitted process, describe the proposed modifications:_____

_____

_____

2) Method(s) of Surface Preparation/Cleaning of Parts and Products (provide information for all that apply):

☐ Buffing ☐ Water (e.g. washing, wet sanding, etc.) ☐ Sanding ☐ Solvent wipe cleaning

☐ Abrasive Blasting; manufacturer's sand capacity rating (lbs or ft^3) _____

☐ Cold Solvent Dip Tank; liquid surface area (ft^2) _____ capacity (gal) _____

☐ Vapor Degreaser; liquid surface area (ft^2) _____ capacity (gal) _____

☐ Cold Solvent Remote Reservoir; sink cross-sectional area (ft^2) _____ capacity (gal) _____

☐ Other (specify) _____

☐ Solvent Used _____ Daily Usage (oz) _____
(Solvent Manufacturer/Product ID Code)

VOC content (g/L) _____ or initial boiling point (°F/°C) _____ or vapor pressure (mm Hg) _____

3) Stripping Operation

Is a stripper, i.e. a volatile liquid applied to remove a maskant, paint, paint residue or temporary protective coating, proposed to be used? ☐ No ☐ Yes, please complete the following information.

☐ Solvent Used: _____ Daily Usage (oz): _____
(Solvent Manufacturer/Product ID Code)

Method of Stripping ☐ Hand Application ☐ Dip Tank; liquid surface area (ft^2) _____ capacity (gal) _____

☐ Other (specify) _____

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4) Method(s) of Application Equipment Cleanup (provide information for all that apply):

☐ Solvent Used _____ Daily Usage (oz) _____
(Solvent Manufacturer/Product ID Code)

VOC content (g/L) _____ or initial boiling point (°F/°C) _____ or vapor pressure (mm Hg) _____

Manufacturer:_____ Model No.:_____ Capacity (gal)_____

☐ Spray Gun Washer

☐ Totally Enclosed Container or System (describe): _____

☐ Cold Solvent Dip Tank; liquid surface area (ft^2) _____

☐ Vapor Degreaser; vapor air interface area (ft^2) _____

☐ Cold Solvent Remote Reservoir; sink cross-sectional area (ft^2) _____

☐ Other (specify) _____

Is a solvent reclamation system used? ☐ No ☐ Yes, please complete the following information

If yes, provide Manufacturer:_____ Model No.:_____ Capacity (gal)_____

5) Waste Handling: Describe the storage method for solvent, waste solvent and solvent-laden rags/waste materials:_____

_____

B. COATING OPERATING SCHEDULE

Describe the coating operations schedule. Coating operations include the following: coating, masking, bonding, surface preparation, stripping, and any cleaning (including equipment cleaning), drying of coated substrate and paint mixing.

Maximum: _____Hrs/Day; _____Days/Wk; _____Wks/Yr

C. EQUIPMENT DESCRIPTION

1) Method(s) of Coating Application:

☐ Spray Gun ☐ Brush ☐ Roller ☐ Dip Tank ☐ Flow coat

☐ Other _____

Spray Gun Specifications				
Manufacturer	Model	Type	Transfer Efficiency %	Rated Capacity (gallons per hour)

Number of guns to be operated at the same time: _____

For HVLP spray guns indicate how you will demonstrate compliance with the air cap pressure limit:

☐ Air cap test gauge Model: _____

☐ Handle inlet pressure gauge with manufacturer document available that correlates air cap pressure to handle inlet pressure

Coating application methods shall comply with applicable District prohibitory rules. Verify that the proposed spray gun complies with the applicable coating rule. If a District approved alternative spray gun is proposed please attach the District approval letter (please provide a separate sheet if needed)

2) Application Station Description:

Coatings are applied in: ☐ Outdoors ☐ Room ☐ Other _____

☐ Open Faced Spray Booth (i.e. 3 walls): ☐ Enclosed Spray Booth (i.e. 4 walls) Number of Booth(s)_____

For Open-Faced booths, distance between the filter bank and the spray area :_____(feet)

Internal Dimensions: _____(feet) Length, _____(feet) Width, _____ (feet) Height

Manufacturer: _____ Model: _____

Booth to be equipped with filter(s)? ☐ No ☐ Yes, *please complete the following information and submit filter manufacturer specifications with application, which must include filter efficiency and associated efficiency test*

Filter Type (or description): _____

Number of Exhaust Fans: _____ Exhaust Flow Rate (per fan): _____ ft^3/min

Ventilation Type: ☐ N/A

☐ Negative Ventilation (i.e. air will always be drawn into the booth)

☐ Positive Ventilation with automatic pressure balancing system

Pressure Setting (in WC): _____

Booth is Completely Sealed: ☐ No ☐ Yes

Mechanism to verify pressure setting: _____

3) Drying Method

☐ Air Dried ☐ Oven Dried ☐ Other _____

If other than Air Dried, complete the following information:

Oven Manufacturer: _____ Model: _____ Drying Temperature: _____°F

Dimensions: Length:_____(feet) Width:_____(feet) Height:_____ (feet)

Oven Power Supply: ☐ Electric ☐ Fuel

If fuel, Type _____Usage (gal/day or cfm) _____ Heat Input Rating (btu/hr) _____

4) VOC Control

Is any VOC control technology proposed? ☐ No ☐ Yes, please complete and submit supplemental application form 27I, *Control Equipment for Coating Operations*.

D. <u>NESHAP (6H) REQUIRED DATA</u>

If this is a previously permitted automotive coating operation, has a request for an exemption from NESHAP 6H been submitted to the District? ☐ No ☐ Yes (attach the copy of the request for exemption)

Does the facility propose to use a spray application method of coatings containing compounds of chromium (Cr) III, chromium (Cr) VI, lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd)? ☐ No ☐ Yes, please attached arrestance test results for the proposed filters to demonstrate the filter arrestance (i.e. capture efficiency per ASHRAE Method 52.1 or equivalent)

Does the facility propose to use any stripping material containing methylene chloride (CAS 75-09-2)? ☐ No ☐ Yes

Monthly MeCl usage (gal): _____*If annual usage is greater than 1 ton (i.e. 238 gallons), you must submit a written MeCl minimization plan (from §63.11173(b) of 6H) with this application.*

E. COATINGS, SOLVENTS AND OTHER MATERIALS CONTAINING VOC's

For each material used include:

☐Regulatory volatile organic compound (VOC) content (i.e. VOC content as applied less water and exempt compound),

☐Actual VOC content (i.e. VOC content as applied including water and exempt compound)

☐All components of the material, including all VOC and toxic air contaminants (TACs)

☐For multipart coatings, include the mix ratio and the VOC content less water and exempt compounds of the mixture

☐Current Material Safety Data Sheet (MSDS), safety data sheets, technical data sheet, manufacturer's data, and/or EPA Method 24 test results.

☐If any of these documents contains trade secret/proprietary information, please contact the manufacturer to obtain another supporting document that provides the necessary information (i.e. VOC and TAC content, all components of each material, and CAS number).

☐Please include manufacturer's specification data sheet for each specialty coating as defined by the applicable prohibitory rule

Please complete the table below for each proposed coating. Please provide a separate sheet, if necessary.

Coating Category* (Refer to applicable prohibitory rule for definitions)	Mfg. Name / ID#	Mix Ratio	Maximum applied** (gal./day)	Application Method (HVLP, roller, etc.)
	P:			
	C:			
	R:			
	O:			
	P:			
	C:			
	R:			
	O:			
	P:			
	C:			
	R:			
	O:			

P = Paint; C = Catalyst, Hardener, Activator; R = Reducer, Thinner O = Other (e.g. Accelerator, Flattener, and Color blender)
** Please describe the coating category as defined by the applicable prohibitory rule*
*** "Maximum Applied" is the amount of material prepared for applications, minus the amount of material disposed of or reclaimed*

Maximum usage of coatings: _____(gals/hr) _____(gals/day)

Maximum usage of solvents: _____(gals/hr) _____(gals/day)

Please indicate if you are proposing a ten (10) pound per day VOC limit for this operation ☐ Yes ☐ No, *other portions of New Source Review Rules become applicable. Contact the District for additional documentation required and a fee estimate.*

F. RULE 1200 TOXICS EVALUATION

EMISSION POINT DATA Determine if your emission source(s) are ducted sources or if they are unducted/fugitive sources and provide the necessary data below.

1. **Ducted or Stack Emissions** (e.g. an exhaust pipe or stack, a roof ventilation duct, etc.)

Parameter	Point #1	Point #2	Point #3	Point #4	Point #5	Point #6
Height of exhaust above ground (ft)						
Stack diameter (or length width) (ft)						
Exhaust gas flow (actual cfm) Max/Min						
Is exhaust vertical (Yes or No)						
Exhaust type (unobstructed, flapper,raincap)						
Distance to Property Line (±10 ft)						

2. **Unducted Emissions** (e.g. anything not emitted through a duct, pipe, or stack, for instance, an open window or an outdoor area)

Are any materials applied outside of the spray booth (e.g. surface prep and polyester resins)? ☐ No ☐ Yes, *describe how unducted vapors, and/or particles get into the outside air. Provide a brief description of the process or operation for each unducted emission point.*

If unducted emissions come out of the building openings such as doors, bays or windows, estimate the **size of the opening** (example – 3 ft x 4 ft window).

_____

_____

If unducted emissions originate outside your buildings, estimate the **size of the emission zone** (example – paint spraying 2' x 2' x 2' bread boxes).

_____

_____

RECEPTOR DATA provide the distance from the emission point to the nearest property line of the nearest residence and to the nearest business. If another business is located on the same property as the emission point but is not under common ownership, include the distance to this business.

Distance to nearest residence: _____ ft Distance to nearest business: _____ ft

PLOT PLAN Please also provide a **facility plot plan or diagram** (need not be to scale as long as the distances of key features from reference points are shown) showing the location of emission point(s) at the facility, property lines, and the **location and dimensions of buildings** (estimated height, width, and length) that are closer than 100 ft. from the emission point. This diagram helps by making it possible for the District to efficiently set up the inputs for health risk evaluation. Inaccurate information may adversely affect the outcome of the evaluation.

Name of Preparer: _____ **Title:** _____

E-mail:_____ **Phone:** (____)_____

Signature:_____ **Date:**_____

NOTE TO APPLICANT:

Before acting on an application for Authority to Construct or Permit to Operate, the District may require further information, plans, or specifications. Forms with insufficient information may be returned to the applicant for completion, which will cause a delay in application processing and may increase processing fees. The applicant should correspond with equipment and material manufacturers to obtain the information requested on this supplemental form.