



**Surface Coating Facility
Air Permits by Rule (PBR) Checklist
Title 30 Texas Administrative Code § 106.433**

Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the rule number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division Web site at: www.tceq.state.tx.us/permitting/air/nav/air_pbr.html.

This PBR ([§ 106.433](#)) requires registration with the commission’s Office of Permitting, Remediation, and Registration in Austin before construction begins. The facility can be registered by completing [Form PI-7](#), “Registration for Permits by Rule,” or [Form PI-7-CERT](#), “Certification and Registration for Permits by Rule.” This checklist should accompany the registration form.

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE BLANKS			
Rule	Questions/Description	Information	Response
(1)	<p>Is molten metal being sprayed onto a surface to form a coating?</p> <p><i>If “YES,” the facility does not qualify for this PBR. Your facility may be eligible for authorization under Permits by Rule § 106.261 and § 106.262, or a construction permit under 30 TAC Chapter 116. Please note that the use of coating materials containing metallic pigments are not considered molten metal and may be authorized under this section.</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(2)(A)	Are spills cleaned immediately?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(2)(B)	Are booths and work area exhaust fans operated during spray gun and equipment cleaning?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(2)(C)	Are all new and used coatings and solvents stored in closed containers?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(2)(C)	Are all waste coatings and solvents removed from the site by an authorized disposal service or disposed of at your site in a permitted waste management facility?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(3)	<p>Do you use a non-electric drying or curing oven for your coating operation?</p> <p><i>If “YES,” answer Questions (3)(A) and (3)(B). If “NO,” go to Question (4).</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(3)(A)	<p>What is the maximum heat input to the non-electric drying oven?</p> <p><i>Note: Please see manufacturer’s data for the maximum heat input of the oven. If the maximum heat input exceeds 40 million British thermal units per hour (Btu/hr), you cannot claim this PBR.</i></p>	<p>Indicate the maximum heat input of the oven:</p> <p>_____ Btu/hr</p>	



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(3)(B)	<p>What type of fuel does the non-electric drying oven use?</p> <p><i>Note: You cannot claim this PBR if you do not use one of the following as fuel for the oven: sweet natural gas, fuel gas containing no more than 5.0 grains of total sulfur compounds per 100 dry standard cubic foot (dscf), or Number 2 fuel oil with not more than 0.3% sulfur by weight.</i></p>	<p>Indicate the type of fuel used:</p> <p><input type="checkbox"/> sweet natural gas <input type="checkbox"/> liquid petroleum gas <input type="checkbox"/> fuel gas <input type="checkbox"/> Number 2 fuel oil</p>	
(4)	<p>Are add-on controls (i.e., oxidizers, absorbers, adsorbers, biofilters) used to reduce volatile organic compound emissions from the surface coating or stripping facility?</p>	<p>Indicate type of add-on control: _____</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
(4)	<p><i>In Questions (4)(A) through (4)(C), please provide an estimate of the emissions before add-on control (if a control is used) from the coating and stripping operation. Please include the calculations used to determine the emission rates with the registration submittal.</i></p>		
(4)(A)	<p>For all surface coating and/or stripping facilities at this site, is the total annual volatile organic compound (VOC) emission rate less than 25 tons per year (tpy)?</p>	_____ tpy of VOC	<input type="checkbox"/> YES <input type="checkbox"/> NO
(4)(A)	<p>For all surface coating and/or stripping facilities at this site, is the total annual exempt solvent emission rate less than 10 tpy?</p> <p><i>Note: Exempt solvents are defined as those carbon compounds or mixtures of carbon compounds used as solvents that have been excluded from the definition of VOC.</i></p>	_____ tpy of exempt solvent	<input type="checkbox"/> YES <input type="checkbox"/> NO
(4)(B)	<p>For all surface coating and/or stripping facilities at this site, is the total hourly VOC emission rate less than 30 pounds per hour (lb/hr)?</p> <p><i>Note: If the total hourly emission rate is greater than 30 lb/hr, then you must obtain a permit for the proposed facility.</i></p>	_____ lb/hr of VOCs	<input type="checkbox"/> YES <input type="checkbox"/> NO
(4)(B)	<p>For all surface coating and/or stripping facilities at this site, is the total exempt solvent emission rate less than 5 lb/hr?</p> <p><i>Note: If the total hourly emission rate is greater than 5 lb/hr, then you must obtain a permit for the proposed facility.</i></p>	_____ lb/hr of exempt solvent	<input type="checkbox"/> YES <input type="checkbox"/> NO



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(4)(C)	<p>Is the total maximum hourly emission rate of VOC and exempt solvents for the surface coating or stripping facility less than 0.25 lb/hr?</p> <p><i>Note: To determine the maximum hourly emission rate, add the two values from (4)(B) above.</i></p> <p><i>If "YES," then the facility is exempt from the requirements in paragraphs (5), (6), (7), (8), and (9) of PBR 433. You should maintain adequate records to verify that the facility is exempt.</i></p>	_____ lb/hr	<input type="checkbox"/> YES <input type="checkbox"/> NO
(5)	<p>Will the opacity of visible emissions from new and existing surface coating facilities exceed 5.0%?</p> <p><i>Note: The opacity of visible emissions should be determined using the United States Environmental Protection Agency Test Method 9?</i></p> <p><i>If "YES," the facility does not qualify for this PBR.</i> <i>If "NO," emissions must remain less than 5% opacity.</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)	<p>Are surface coating operations performed in a completely enclosed work area or booth?</p> <p><i>If "YES," answer the remaining questions in Question (6) and skip Question (7). You may complete and attach a Table 18 or provide equivalent documentation to demonstrate compliance.</i></p> <p><i>If "NO," go to Question (7).</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(A)	<p>What is the proposed maximum hourly VOC emission rate (averaged over any five-hour period) from each enclosed work area or booth?</p> <p><i>Attach additional sheets if needed.</i></p>	_____ lb/hr _____ lb/hr _____ lb/hr _____ lb/hr	
(6)(A)	<p>Are the emissions from each enclosed work area or booth less than or equal to 6 lb/hr?</p> <p><i>Note: If the emission rate from each enclosed work area is greater than 6 lb/hr (averaged over any five-hour period), then you must obtain a permit for the proposed facility.</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(A)	<p>What is the proposed maximum weekly VOC emission rate (lb/wk) from each enclosed work area or booth?</p> <p><i>Attach additional sheets if needed.</i></p>	_____ lb/wk _____ lb/wk _____ lb/wk _____ lb/wk	



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Rule	Questions/Description	Information	Response
(6)(A)	Are the emissions from each enclosed work area or booth less than or equal to 500 lb/wk? <i>Note: If the emission rate from each enclosed work area or booth is greater than 500 lb/wk, then you must obtain a permit for the proposed facility.</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(B)	What is the minimum face velocity at the intake opening of each enclosed work area? <i>Note: The face velocity is the air flow in cubic feet per minute (cfm) divided by the intake area in square feet.</i> <i>Attach additional sheets if needed.</i>	_____ ft/min _____ ft/min _____ ft/min _____ ft/min	
(6)(B)	Is the minimum face velocity of each enclosed work area or booth greater than 100 ft/min? <i>Note: If the face velocity of each enclosed work area or booth is less than 100 ft/min, the facility is considered a non-enclosed facility. Go to Question (7) to determine if the facility meets the requirements for non-enclosed facilities.</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(B)	What is the height of the building as measured from ground level to its highest point?	Building height: _____ ft	
(6)(B)	What is the actual/proposed stack height above ground level of the enclosed work area or booth?	Stack height: _____ ft	
(6)(B)	Is the proposed stack height at least 1.5 times the building height above ground level? <i>Note: You may calculate this ratio by dividing the stack height by the building height.</i> <i>If "NO," then the facility does not meet the requirements of an enclosed surface coating or stripping facility. Go to Question (7) to determine if the facility meets the requirements for non-enclosed facilities.</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(B)	Is rain protection used on the stack(s)?	Indicate the type used: _____	<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(B)	Does the rain protection obstruct vertical discharge of emissions? <i>Note: The rain protection should not obstruct the vertical discharge of emissions. If it does, then go to Question (7) to determine if the facility meets the requirements for non-enclosed facilities.</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO



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Rule	Questions/Description	Information	Response
(6)(C)	<p>Is a water wash or a dry filter system used to control emissions of particulate matter at the enclosed work area or paint booth?</p> <p><i>If "YES," answer the questions in (6)(C).</i> <i>If "NO," the facility does not meet the requirement of an enclosed facility. Go to Question (7) to determine if the facility meets the requirements for non-enclosed facilities.</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(C)	<p>What type of filter is used in your enclosed work area or booth?</p>	<input type="checkbox"/> dry filter <input type="checkbox"/> water wash	
(6)(C)	<p>What is the particulate removal efficiency of your filter, as specified by the manufacturer?</p> <p><i>Note: If the filter efficiency of the enclosed work area or booth is less than 95%, the facility does not meet the requirements of an enclosed work area. Go to Question (7) to determine if the facility meets the requirements for non-enclosed facilities.</i></p>	_____ % removal efficiency	
(6)(C)	<p>For spraying operations, does the face velocity at the filter exceed 250 ft/min or that specified by the manufacturer, whichever is less?</p> <p><i>If "YES," or if the face velocity exceeds that specified by the manufacturer, your facility does not meet the requirements of an enclosed work area. Please go to Question (7) to determine if your facility meets the requirements for non-enclosed facilities.</i></p>	_____ ft/min _____ ft/min _____ ft/min _____ ft/min	<input type="checkbox"/> YES <input type="checkbox"/> NO
(6)(C)	<p>Will the filter be replaced whenever the pressure drop across the filter no longer meets the manufacturer's recommendation?</p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(7)	<p>Is your surface coating or stripping operation performed outdoors or in an area that does not meet one or more of the requirements in Question (6)?</p> <p><i>If "YES," answer Questions (7)(A) through (7)(C).</i> <i>If "NO," the facility does not qualify for this PBR.</i></p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(7)(A)	<p>For all non-enclosed surface coating and stripping operations at the site, what is the proposed maximum hourly VOC emission rate averaged over any continuous five-hour period?</p> <p><i>Note: If the emission rate is greater than 6 lb/hr (averaged over any five hour period), then you must obtain a permit for the proposed facility.</i></p>	_____ lb/hr	



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(7)(A)	What is the proposed maximum weekly VOC emission rate for all non-enclosed surface coating and stripping operations at the site? <i>Note: If the emission rate is greater than 500 lb/wk, then you must obtain a permit for the proposed facility, unless the facility can meet all the requirements of Question (6) above.</i>	_____ lb/wk	
(7)(B)	Are coatings applied via spray equipment? <i>If "YES," answer Question (7)(B) below. If "NO," go to Question (7)(C).</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(7)(B)	Do the proposed coatings contain chromates, lead, cadmium, selenium, strontium, or cobalt? <i>Note: If any of the coatings contain these heavy metals, and if the percent by weight is greater than 0.1%, you are further limited to total VOC emissions of no more than 240 pounds per week and 2,000 pounds per year.</i>	Indicate the heavy metal contents of the coatings: _____ % by weight chromates _____ % by weight lead _____ % by weight cadmium _____ % by weight selenium _____ % by weight strontium _____ % by weight cobalt	<input type="checkbox"/> YES <input type="checkbox"/> NO
(7)(C)	What is the distance from the source of emissions (where emissions enter the atmosphere) at the coating facility to the nearest property line? <i>Note: If the distance is less than 50 feet, the facility must meet the requirements of Question (6) to qualify for registration under PBR 433. You may also consider obtaining a permit.</i>	_____ ft	
(7)(C)	What is the distance from the facility to the nearest recreational area, residence, or other structure not occupied or used solely by the owner of the facility or owner of the property upon which the facility is located? <i>Note: If the distance is less than 250 feet, the facility must meet the requirements of Question (6) to qualify for registration under PBR 433. You may also consider obtaining a permit.</i>	_____ ft	



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(7)(D)	Has construction of the non-enclosed surface coating facility begun? <i>Note: Before construction of your facility begins, written site approval from the TCEQ or any local program with jurisdiction over your facility is required.</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)	Will records be maintained at the site for the most recent 24 months of operation and be made immediately available to the commission or any pollution control agency with jurisdiction?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(A)	Will Material Safety Data Sheets (MSDS) for all coating materials and solvents used for your surface coating operations be maintained on-site?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(B)	Will data of daily coatings and solvent use be maintained on-site?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain records of the actual hours of operation of each coating and stripping operation?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain a monthly report that shows the total hours of operation for each day that you operate your surface coating operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain a monthly report that shows the record of your emissions in pounds per hour for each day of your coating operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain a monthly report that shows the emissions in pounds per day for each day of your coating operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain a monthly report that shows the emissions in pounds per week from your coating operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(C)	Will you maintain a report that shows the emissions during the previous 12 calendar months in tons per year?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(8)(D)	Do you maintain a monthly report that shows examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions, used to estimate your emissions?		<input type="checkbox"/> YES <input type="checkbox"/> NO
(9)	Did you provide Form PI-7 or Form PI-7-CERT as part of this registration request?	<input type="checkbox"/> Form PI-7 <input type="checkbox"/> Form PI-7-CERT	<input type="checkbox"/> YES <input type="checkbox"/> NO
Other Applicable Rules and Regulations		Why or Why Not	Response
	Is your facility subject to 30 TAC Chapter §§ 115.420-429 ?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart EE for surface coating of metal furniture?		<input type="checkbox"/> YES <input type="checkbox"/> NO



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	Other Applicable Rules and Regulations (continued)	Why or Why Not	Response
	Is your facility subject to 40 CFR Part 60, NSPS Subpart MM for surface coating of automobiles and light duty trucks at assembly operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart SS for industrial surface coating of large appliances (metal range, oven, microwave oven, refrigerator, freezer, washer, dryer, dishwasher, water heater, or trash compactor manufactured for household, commercial, or recreational use)?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart TT for surface coating of metal coil?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart WW for surface coating of beverage cans?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart SSS for surface coating of magnetic tape used for audio or video recording or information storage?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 60, NSPS Subpart TTT for surface coating of plastic parts for business machines?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart GG for surface coating at aerospace manufacturing and rework operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart II for surface coating at ship building and ship repair operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR part 63, MACT Subpart JJ for surface coating of wood furniture or wood furniture components?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart IIII for surface coating of automobiles and light duty trucks at assembly operations?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart KKKK for the surface coating of metal cans?		<input type="checkbox"/> YES <input type="checkbox"/> NO



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	Other Applicable Rules and Regulations (continued)	Why or Why Not	Response
	Is your facility subject to 40 CFR Part 63, MACT Subpart MMMM for the surface coating of miscellaneous metal parts and products including motor vehicle parts and accessories, bicycles and sporting goods, recreational vehicles, extruded aluminum structural components, railroad cars, heavy duty trucks, medical equipment, lawn and garden equipment, electronic equipment, magnet wire, steel drums, industrial machinery, metal pipes, and numerous other industrial, household, and consumer products?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart NNNN for the surface coating of large appliances or parts?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart PPPP for the surface coating of plastic parts and products including motor vehicle parts and accessories for automobiles, trucks, recreational vehicles; sporting and recreational goods; toys; business machines; laboratory and medical equipment; and household and other consumer products?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart QQQQ for the surface coating of wood building products or other products classified as wood building products?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart RRRR for the surface coating of metal furniture?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is your facility subject to 40 CFR Part 63, MACT Subpart SSSS for the surface coating of metal coil?		<input type="checkbox"/> YES <input type="checkbox"/> NO
	Is our facility subject to 40 CFR Part 63, MACT Subpart VVVV for surface coating of fiberglass or metal boats?		<input type="checkbox"/> YES <input type="checkbox"/> NO

Record Keeping: In order to demonstrate compliance with the general and specific requirements of this PBR, sufficient records must be maintained to demonstrate that all requirements are met at all times. Records must include Material Safety Data Sheets (MSDS) for all coating materials and solvents used; data of daily coatings and solvent use and the actual hours of operation for each coating and stripping operation; a monthly report that represents the actual hours of operation each day, and emissions from each operation in pounds per hour, pounds per day, pounds per week, and tons emitted from the site during the previous 12 months; and examples of the method of data reduction including units, conversion factors, and the basis of the assumptions. The registrant should also become familiar with the additional record keeping requirements in [30 TAC § 106.8](#). The records must be made available immediately upon request to the commission or any air pollution control program having jurisdiction. If you have any question about the type of records that should be maintained, contact the Air Program in the [TCEQ Regional Office](#) for the region in which the site is located.



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Recommended Calculation Methods: In order to demonstrate compliance with the general and specific requirements of this PBR, consult the TCEQ Technical Guidance Document on Surface Coating Operations at: www.tceq.state.tx.us/permitting/air/nav/air_coatsurfaces.html and/or use the emission factors for each air contaminant listed in the EPA “Compilation of Air Pollutant Emission Factors Document” (AP-42) Fifth Edition, Volume I, Chapter 4, “Evaporation Loss Sources” at: www.epa.gov/ttn/chief/ap42/index.html.