

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

In order to determine the most appropriate authorization for operations at your site, please review the list of activities that are considered de minimis and do not require registration: [www.tceq.texas.gov/permitting/air/guidance/newsourcereview/list-of-de-minimis-facilities.html](http://www.tceq.texas.gov/permitting/air/guidance/newsourcereview/list-of-de-minimis-facilities.html) at download file. In some cases, the operations at your site may qualify under de minimis. However, if the site has received a Notice of Violation for operations being conducted at this site, the company must register the surface coating operations under § 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 that references the Permit by Rule (PBR). The PBR forms, tables, checklists, and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at: [www.tceq.texas.gov/permitting/air/permitbyrule/subchapter-s/surface\\_coat\\_facility.html](http://www.tceq.texas.gov/permitting/air/permitbyrule/subchapter-s/surface_coat_facility.html). If you have any questions, or need additional assistance, please contact the Air Permits Division at (512) 239-1250.

This PBR (§ 106.433) requires registration with the commission's Office of Air 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](#), "Registration and Certification for Permits by Rule."

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: [www.TexasEnviroHelp.org](http://www.TexasEnviroHelp.org)

**This checklist should accompany the following: *(Please check all that are included)***

- Distance information.** Include the distance from the facility's emission release point to the nearest property line and off-property structure.
- A process flow diagram or process description.** Include a step-by-step description of what you do with each material that comes into your business and how the final product moves out the door.
- Emissions data and calculations.** Include emission rates for each air contaminant and supporting calculations.
- Equipment specifications.** Filter efficiencies, spray-gun specifications, and literature, and gun-washer and booth specifications.
- Usage rates of coatings and solvents** in gallons per hour and gallons per year.
- Operation schedules.** Hours of operation.
- Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS).** Identify the chemicals used specifically at your site and supply MSDS or SDS, technical data sheets, environmental sheets, air quality data sheets, or equivalent supporting documents for all mixtures that contain potential air contaminants.

**Good House Keeping Procedures:**

In order to qualify for this PBR, the owner or operator is responsible for the following:

- Cleaning all spills immediately
- Operating booth and work area exhaust fans during spray gun and equipment cleaning
- Storing all new and used coatings and solvents in closed containers
- Removing all waste coatings and solvents from the site by an authorized disposal service or dispose of them at your site in a permitted waste management facility
- Replacing air filters when the pressure drop no longer meets manufacturer's recommendations
- Maintaining all records to demonstrate compliance with the specific requirements of §§ 106.433 and 106.4.

**Recordkeeping:** In order to demonstrate compliance with the requirements of this Permit by Rule, sufficient records must be maintained at all times. Refer to the PBR to determine how records shall be maintained. 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 recordkeeping requirements, contact the Air Permits Division or the Air Program in the [TCEQ Regional Office](#) for the region in which the site is located.

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Check the Most Appropriate Answer(s) and Fill in the Blanks:	
<p>For coating operation located in a nonattainment or near-nonattainment county (listed below), as defined at 30 Texas Administrative Code (TAC) § 115.10, Chapter 115 contains limits for VOC, control requirements as well as limits for industrial adhesives and cleaning. These requirements appear in 30 TAC Chapter 115, Subchapter E.</p> <ul style="list-style-type: none"> <li>• <b>Dallas/Fort Worth area:</b> Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties.</li> <li>• <b>El Paso area:</b> El Paso County.</li> <li>• <b>Beaumont/Port Arthur area:</b> Hardin, Jefferson, and Orange Counties.</li> <li>• <b>Houston/Galveston or Houston/Galveston/Brazoria area:</b> Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties.</li> </ul>	
<p>If your coating operation is located in a nonattainment or near-nonattainment county, does it comply with 30 TAC Chapter 115?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p><b>Note:</b> You have several options for complying with the special requirements for nonattainment and near-nonattainment areas. You can use compliant coatings that are below the required VOC content limits, use coatings that are compliant under a daily weighted average, or qualify for an exemption.</p>	
<b>§ 106.433 (1)</b>	
<p>Is molten metal being sprayed onto a surface to form a coating?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<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>	
<b>§ 106.433 (3)</b>	
<p>Do you use a non-electric drying or curing oven for your coating operation?</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p><i>If "YES," attach emission calculations for Products of Combustion for the oven. See page 33 of the Surface Coating Facilities Guidance Document at <a href="http://www.tceq.texas.gov/assistance/industry/sc/coating.html">www.tceq.texas.gov/assistance/industry/sc/coating.html</a></i></p> <p><i>If "NO," go to Question in § 106.433 (4) section (page 4).</i></p>	
<b>§ 106.433 (3)(B)</b>	
<p>What is the maximum heat input to the non-electric drying oven? _____ (MMBtu/hr)?</p>	
<p>If the drying oven exceeds 2.0 MMBtu/hr, please evaluate NAAQS for SO<sub>2</sub> and NO<sub>x</sub>.</p>	
<p><b>Note:</b> 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.</p>	
<p>Check the type of fuel does the non-electric drying oven uses.</p>	
<p> <input type="checkbox"/> Fuel gas           <input type="checkbox"/> Liquid petroleum gas           <input type="checkbox"/> Number 2 fuel oil           <input type="checkbox"/> Sweet natural gas         </p>	
<p><b>Note:</b> 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.</p>	

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Check the Most Appropriate Answer(s) and Fill in the Blanks:	
<b>§ 106.433 (4)</b>	
Are add-on controls (i.e., oxidizers, absorbers, adsorbers, and biofilters) used to reduce volatile organic compound (VOC) emissions from the surface coating or stripping facility?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Indicate type of add-on control(s):	
Indicate the control efficiency (%) of the add-on control(s):	
<b>Please provide an estimate of the emissions <u>before add-on control</u> (if a control is used) from the coating and stripping operation.</b>	
<b>Please include the calculations used to determine the emission rates with the registration submittal. For assistance determining the emission rates, please visit the following website: <a href="http://www.tceq.texas.gov/assistance/industry/sc/coating.html">www.tceq.texas.gov/assistance/industry/sc/coating.html</a></b>	
<b>§ 106.433 (4)(A)</b>	
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)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Total annual VOC emission rate (tpy):	
For all surface coating and/or stripping facilities at this site, is the total annual exempt solvent emission rate less than 10 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Total annual exempt solvent emission rate (tpy):	
<b>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.</b>	
<b>§ 106.433 (4)(B)</b>	
For all surface coating and/or stripping facilities at this site, are the total hourly VOC emission rate less than 30 pounds per hour (lb/hr)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Total hourly VOC emission rate: <span style="float: right;">lb/hr</span>	
<b>Note: If the total hourly emission rate is greater than 30 lb/hr, then you must obtain a permit for the proposed facility.</b>	
For all surface coating and/or stripping facilities at this site, is the total exempt solvent emission rate less than 5 lb/hr?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Total exempt solvent emission rate: <span style="float: right;">lb/hr</span>	
<b>Note: If the total hourly emission rate is greater than 5 lb/hr, then you must obtain a permit for the proposed facility.</b>	

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<b>Check the Most Appropriate Answer(s) and Fill in the Blanks:</b>	
<b>§ 106.433 (4)(C)</b>	
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?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Total maximum hourly emission rate of VOC and exempt solvents (lb/hr):	
<i>If "YES," then the facility is exempt from the requirements in paragraphs (5), (6), (7), (8), and (9) of PBR 106.433 and you do not need to fill out the remaining questions in this checklist. You should maintain adequate records to verify that the facility is exempt from all other requirements.</i>	
<b>§ 106.433 (5)</b>	
Are opacity emissions exceeding 5% as determined by the United States EPA Method 9 average over a six-minute period?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>§ 106.433 (6)</b>	
Please indicate where surface coating activities take place at your site.	
<input type="checkbox"/> Indoor Work Area/Enclosed Booth	<input type="checkbox"/> Outdoor Work Area/Non-enclosed Booth
<b>Note:</b> For "Indoor Work Area/Enclosed Booth," all conditions of (6)(A) – (6)(C) must be met. If all these conditions cannot be met, your operations will be subject to the conditions of questions (7)(A)-(9).	
<b>§ 106.433 (6)(A)</b>	
What is the proposed maximum hourly VOC emission rate (averaged over any five-hour period) from each enclosed work area or booth? _____ (lb/hr)	
<b>Note:</b> 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 case-by-case permit for the proposed facility.	
What is the proposed maximum weekly VOC emission rate from each enclosed work area or booth? _____ lb/week	
<b>Note:</b> If the emission rate from each enclosed work area or booth is greater than 500 lb/wk, then you must obtain a case-by-case permit for the proposed facility.	
<b>§ 106.433 (6)(B)</b>	
What is the minimum face velocity at the intake opening of each enclosed work area? _____ ft/min	
<b>Note:</b> The face velocity is the air flow in cubic feet per minute (cfm) divided by the intake area in square feet. 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 section § 106.433 (7)(A) on page 6 to determine if the facility meets the requirements for non-enclosed facilities.	

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<b>§ 106.433 (6)(B)</b>	
In order to determine the appropriate stack height for your operation, please complete the following equation:	
Building Height (ft.) x 1.5 =	Acceptable Stack height (ft.)
Is the proposed stack height at least 1.5 times the building height above ground level?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "NO," then the facility does not meet the requirements of an enclosed surface coating or stripping facility. Go to section § 106.433 (7)(A) on page 6 to determine if the facility meets the requirements for non-enclosed facilities.</i>	
Is rain protection used on the stack(s)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>Note:</b> <i>The rain protection should not obstruct the vertical discharge of emissions. If it does, then determine if the facility meets the requirements for non-enclosed facilities.</i>	
<b>§ 106.433 (6)(C)</b>	
Please indicate the type of filter used in your enclosed work area or booth.	
<input type="checkbox"/> cartridge filter <input type="checkbox"/> dry filter <input type="checkbox"/> water wash <input type="checkbox"/> other: _____	
What is the particulate removal efficiency percentage of your filter, as specified by the manufacturer?	
_____ %	
<b>Note:</b> <i>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. Please determine if the facility meets the requirements for non-enclosed facilities.</i>	
<b>Be advised</b> that your site may be subject to federal standards which require higher filter efficiencies.	
<b>Please attach the filter manufacturer specification sheets.</b>	
For spraying operations, what is the face velocity at the filter? _____ ft/min	
<b>Note:</b> <i>If the face velocity at the filter is greater than 250 ft/min or that specified by the manufacturer, your facility does not meet the requirements of an enclosed work area. Please determine if your facility meets the requirements for non-enclosed facilities.</i>	
<b>§ 106.433 (7)(A)</b>	
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?	
_____ lb/hr	
<b>Note:</b> <i>If the emission rate is greater than 6 lb/hr (averaged over any five-hour period), then you must obtain a case-by-case permit for the proposed facility.</i>	

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Check the Most Appropriate Answer(s) and Fill in the Blanks		
<b>§ 106.433 (7)(A) (continued)</b>		
What is the proposed maximum weekly VOC emission rate for all non-enclosed surface coating and stripping operations at the site _____ lb/wk		
<b>Note:</b> <i>If the emission rate is greater than 500 lb/wk, then you must obtain a case-by-case permit for the proposed facility, unless the facility can meet all the requirements of an enclosed facility.</i>		
<b>§ 106.433 (7)(B)</b>		
Do you spray coatings that contain any of the following: chromates, lead, cadmium, selenium, strontium, or cobalt?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>Note:</b> <i>If any of the coatings contain the compounds listed above, 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 percentage of heavy metal contents (by weight) of the coatings:		
cadmium _____ %	chromates _____ %	cobalt _____ %
lead _____ %	selenium _____ %	strontium _____ %
<b>§ 106.433 (7)(C)</b>		
What is the distance from the source of emissions (i.e. work area or paint booth) to the nearest property line (feet)? _____ ft.		
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 (feet)? _____ ft.		
<b>Note:</b> <i>If the distance to the nearest property line is less than 50 feet and if the distance to the nearest off-site receptor is less than 250 feet, the facility must meet the requirements of an enclosed facility to qualify for registration under PBR 433. You may also consider obtaining a case-by-case permit.</i>		
<b>§ 106.433 (9)</b>		
If construction of the non-enclosed surface coating facility has already begun, please provide the date your operations commenced. (MM/DD/YYYY): _____		
<b>Note:</b> <i>For sites which have not been constructed, written site approval from the TCEQ or any local program with jurisdiction over your facility is required.</i>		

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<b>Please review the following Federal Standards that your operation(s) may be subject to (check all that apply):</b>			
<b>Federal Rules Associated with PBR 106.433</b>	<b>Source Type</b>	<b>All new, reconstructed, or existing affected sources should have been in compliance by:</b>	<b>Direct Web Link for Compliance Applicability Dates</b>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart EE</a> for surface coating of metal furniture?	all sources after compliance date	after November 28, 1980	<a href="#">60.310</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart MM</a> for surface coating of automobiles and light duty trucks at assembly operations?	all sources after compliance date	after October 5, 1979	<a href="#">60.390</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart SS</a> 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)?	all sources after compliance date	after December 24, 1980	<a href="#">60.450</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart TT</a> for surface coating of metal coil?	all sources after compliance date	after January 5, 1981	<a href="#">60.460</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart WW</a> for surface coating of beverage cans?	all sources after compliance date	after November 26, 1980	<a href="#">60.490</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart SSS</a> for surface coating of magnetic tape used for audio or video recording or information storage?	all sources after compliance date	after January 22, 1986	<a href="#">60.710</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 60, NSPS Subpart TTT</a> for surface coating of plastic parts for business machines?	all sources after compliance date	after January 8, 1986	<a href="#">60.720</a>



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<b>Federal Rules Associated with PBR 106.433</b>	<b>Source Type</b>	<b>All new, reconstructed, or existing affected sources should have been in compliance by:</b>	<b>Direct Web Link for Compliance Applicability Dates</b>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart GG</a> for surface coating at aerospace manufacturing and rework operations?	major for hazardous air pollutants	comply by September 1, 1998	<a href="#">63.749</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart II</a> for surface coating at ship building and ship repair operations?	major for hazardous air pollutants	see links for multiple compliance conditions and dates	<a href="#">63.784</a> and <a href="#">63.6</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart JJ</a> for surface coating of wood furniture or wood furniture components?	major for hazardous air pollutants	comply by November 21, 1997	<a href="#">63.800</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart IIII</a> for surface coating of automobiles and light duty trucks at assembly operations?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.3083</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart KKKK</a> for the surface coating of metal cans?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.3483</a>

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<b>Federal Rules Associated with PBR 106.433</b>	<b>Source Type</b>	<b>All new, reconstructed, or existing affected sources should have been in compliance by:</b>	<b>Direct Web Link for Compliance Applicability Dates</b>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart MMMM</a> 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?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.3883</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart NNNN</a> for the surface coating of large appliances or parts?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.4083</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart PPPP</a> 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?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.4483</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart QQQQ</a> for the surface coating of wood building products or other products classified as wood building products?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.4683</a>

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<b>Federal Rules Associated with PBR 106.433</b>	<b>Source Type</b>	<b>All new, reconstructed, or existing affected sources should have been in compliance by:</b>	<b>Direct Web Link for Compliance Applicability Dates</b>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart RRRR</a> for the surface coating of metal furniture?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.4883</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart SSSS</a> for the surface coating of metal coil?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.5130</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart VVVV</a> for surface coating of fiberglass or metal boats?	major for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.5695</a> and <a href="#">Table 1</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart HHHHHH</a> for paint stripping and miscellaneous surface coating operations at area sources	area source for hazardous air pollutants	see link for multiple compliance conditions and dates	<a href="#">63.11172</a>
<input type="checkbox"/> Is your facility subject to <a href="#">40 CFR Part 63, MACT Subpart XXXXXX</a> for area source standards for nine metal fabrication and finishing source categories	area source for hazardous air pollutants	comply by July 25, 2011 (existing sources) or upon startup (new sources)	<a href="#">63.11515</a>