


**I. Introduction**

An owner or operator may fill in this form in replacement of a highlighted copy of the New Source Performance Standard (NSPS) located in 40 CFR 60, Subpart TTT – Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts of Business Machines.

Please be aware that all facilities subject to this NSPS are also subject to 40 CFR 60 Subpart A - General Provisions. Where this NSPS refers to portions of Subpart A (§60.1 to §60.19), please copy those referenced portions of Subpart A and check off the specific items that apply to your facility. You can find the most recent version of 40 CFR 60, subpart A on EPA's website at <http://www.epa.gov/epacfr40/chapt-I.info/chi-toc.htm/>. A formatted version of subpart A (Form NSPS-A) with check off boxes is available on the MPCA's website, at <http://www.pca.state.mn.us/air/permits/forms.html>.

NSPS PROVISION Location and Language	<input checked="" type="checkbox"/> if APPLICABLE
Section 60.720 Applicability and designation of affected facility.	<input type="checkbox"/>
(a) The provisions of this subpart apply to each spray booth in which plastic parts for use in the manufacture of business machines receive prime coats, color coats, texture coats, or touch-up coats.	<input type="checkbox"/>
(b) This subpart applies to any affected facility for which construction, modification, or reconstruction begins after January 8, 1986.	<input type="checkbox"/>
Section 60.721 Definitions.	
(a) As used in this subpart, all terms not defined herein shall have the meaning given them in the Act or in subpart A of this part. <i>Business machine</i> means a device that uses electronic or mechanical methods to process information, perform calculations, print or copy information, or convert sound into electrical impulses for transmission, such as: (1) Products classified as typewriters under SIC Code 3572; (2) Products classified as electronic computing devices under SIC Code 3573; (3) Products classified as calculating and accounting machines under SIC Code 3574; (4) Products classified as telephone and telegraph equipment under SIC Code 3661; (5) Products classified as office machines, not elsewhere classified, under SIC Code 3579; and (6) Photocopy machines, a subcategory of products classified as photographic equipment under SIC code 3861. <i>Coating operation</i> means the use of a spray booth for the application of a single type of coating (e.g., prime coat); the use of the same spray booth for the application of another type of coating (e.g., texture coat) constitutes a separate coating operation for which compliance determinations are performed separately. <i>Coating solids applied</i> means the coating solids that adhere to the surface of the plastic business machine part being coated.	

NSPS PROVISION Location and Language	 if APPLICABLE
<p>Section 60.721 Definitions. (continued)</p> <p><i>Color coat</i> means the coat applied to a part that affects the color and gloss of the part, not including the prime coat or texture coat. This definition includes fog coating, but does not include conductive sensitizers or electromagnetic interference/radio frequency interference shielding coatings.</p> <p><i>Conductive sensitizer</i> means a coating applied to a plastic substrate to render it conductive for purposes of electrostatic application of subsequent prime, color, texture, or touch-up coats.</p> <p><i>Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coating</i> means a conductive coating that is applied to a plastic substrate to attenuate EMI/RFI signals.</p> <p><i>Fog coating</i> (also known as mist coating and uniforming) means a thin coating applied to plastic parts that have molded-in color or texture or both to improve color uniformity.</p> <p><i>Nominal 1-month period</i> means either a calendar month, 30-day month, accounting month, or similar monthly time period that is established prior to the performance test (i.e., in a statement submitted with notification of anticipated actual startup pursuant to 40 CFR 60.7(2)).</p> <p><i>Plastic parts</i> means panels, housings, bases, covers, and other business machine components formed of synthetic polymers.</p> <p><i>Prime coat</i> means the initial coat applied to a part when more than one coating is applied, not including conductive sensitizers or electromagnetic interference/radio frequency interference shielding coatings.</p> <p><i>Spray booth</i> means the structure housing automatic or manual spray application equipment where a coating is applied to plastic parts for business machines.</p> <p><i>Texture coat</i> means the rough coat that is characterized by discrete, raised spots on the exterior surface of the part. This definition does not include conductive sensitizers or EMI/RFI shielding coatings.</p> <p><i>Touch-up coat</i> means the coat applied to correct any imperfections in the finish after color or texture coats have been applied. This definition does not include conductive sensitizers or EMI/RFI shielding coatings.</p> <p><i>Transfer efficiency</i> means the ratio of the amount of coating solids deposited onto the surface of a plastic business machine part to the total amount of coating solids used.</p> <p><i>VOC emissions</i> means the mass of VOC's emitted from the surface coating of plastic parts for business machines expressed as kilograms of VOC's per liter of coating solids applied (i.e., deposited on the surface).</p> <p>(b) All symbols used in this subpart not defined below are given meaning in the Act or subpart A of this part.</p> <p>D_c = density of each coating as received (kilograms per liter)</p> <p>D_d = density of each diluent VOC (kilograms per liter)</p> <p>L_c = the volume of each coating consumed, as received (liters)</p> <p>L_d = the volume of each diluent VOC added to coatings (liters)</p> <p>L_s = the volume of coating solids consumed (liters)</p>	

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Section 60.721 Definitions. (continued)	
<p>M_d = the mass of diluent VOC's consumed (kilograms)</p> <p>M_o = the mass of VOC's in coatings consumed, as received (kilograms) N = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter)</p> <p>T = the transfer efficiency for each type of application equipment used at a coating operation (fraction)</p> <p>T_{avg} = the volume-weighted average transfer efficiency for a coating operation (fraction)</p> <p>V_s = the proportion of solids in each coating, as received (fraction by volume)</p> <p>W_o = the proportion of VOC's in each coating, as received (fraction by weight)</p>	
Section 60.722 Standards for volatile organic compounds.	<input type="checkbox"/>
(a) Each owner or operator of any affected facility which is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test, required by §§60.8 and 60.723 is completed, but not later than 60 days after achieving the maximum production rate at which the affected facility will be operated, or 180 days after the initial startup, whichever date comes first. No affected facility shall cause the discharge into the atmosphere in excess of:	<input type="checkbox"/>
(1) 1.5 kilograms of VOC's per liter of coating solids applied from prime coating of plastic parts for business machines.	<input type="checkbox"/>
(2) 1.5 kilograms of VOC's per liter of coating solids applied from color coating of plastic parts for business machines.	<input type="checkbox"/>
(3) 2.3 kilograms of VOC's per liter of coating solids applied from texture coating of plastic parts for business machines.	<input type="checkbox"/>
(4) 2.3 kilograms of VOC's per liter of coatings solids applied from touch-up coating of plastic parts for business machines.	<input type="checkbox"/>
(b) All VOC emissions that are caused by coatings applied in each affected facility, regardless of the actual point of discharge of emissions into the atmosphere, shall be included in determining compliance with the emission limits in paragraph (a) of this section.	<input type="checkbox"/>
Section 60.723 Performance tests and compliance provisions.	<input type="checkbox"/>
(a) Section 60.8 (d) and (f) do not apply to the performance test procedures required by this section.	<input type="checkbox"/>
(b) The owner or operator of an affected facility shall conduct an initial performance test as required under §60.8(a) and thereafter a performance test each nominal 1-month period for each affected facility according to the procedures in this section.	<input type="checkbox"/>
(1) The owner or operator shall determine the composition of coatings by analysis of each coating, as received, using Method 24, from data that have been determined by the coating manufacturer using Method 24, or by other methods approved by the Administrator.	<input type="checkbox"/>
(2) The owner or operator shall determine the volume of coating and the mass of VOC used for dilution of coatings from company records during each nominal 1-month period. If a common coating distribution system serves more than one affected facility or serves both affected and nonaffected spray booths, the owner or operator shall estimate the volume of coatings used at each facility by using procedures approved by the Administrator.	<input type="checkbox"/>
(i) The owner or operator shall calculate the volume-weighted average mass of VOC's in coatings emitted per unit volume of coating solids applied (N) at each coating operation [i.e., for each type of coating (prime, color, texture, and touch-up) used] during each nominal 1-month period for each affected facility. Each 1-month calculation is considered a performance test. Except as provided in paragraph (b)(2)(iii) of this section, N will be determined by the following procedures:	<input type="checkbox"/>

NSPS PROVISION Location and Language	<input checked="" type="checkbox"/> if APPLICABLE												
Section 60.723 Performance tests and compliance provisions. (continued)	<input type="checkbox"/>												
<p>(A) Calculate the mass of VOC's used ($M_o + M_d$) for each coating operation during each nominal 1-month period for each affected facility by the following equation:</p> $M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$ <p>where n is the number of coatings of each type used during each nominal 1-month period and m is the number of different diluent VOC's used during each nominal 1-month period. ($\sum L_{dj} D_{dj}$ will be 0 if no VOC's are added to the coatings, as received.)</p>	<input type="checkbox"/>												
<p>(B) Calculate the total volume of coating solids consumed (L_s) in each nominal 1-month period for each coating operation for each affected facility by the following equation:</p> $L_s = \sum_{i=1}^n L_{ci} V_{si}$ <p>where n is the number of coatings of each type used during each nominal 1-month period.</p>	<input type="checkbox"/>												
<p>(C) Select the appropriate transfer efficiency (T) from Table 1 for each type of coating applications equipment used at each coating operation. If the owner or operator can demonstrate to the satisfaction of the Administrator that transfer efficiencies other than those shown are appropriate, the Administrator will approve their use on a case-by-case basis. Transfer efficiency values for application methods not listed below shall be approved by the Administrator on a case-by-case basis. An owner or operator must submit sufficient data for the Administrator to judge the validity of the transfer efficiency claims.</p>	<input type="checkbox"/>												
<p>(D) Where more than one application method is used within a single coating operation, the owner or operator shall determine the volume of each coating applied by each method through a means acceptable to the Administrator and compute the volume-weighted average transfer efficiency by the following equation:</p> $T_{avg} = \frac{\sum_{i=1}^n \sum_{k=1}^p L_{cik} V_{sik} T_k}{L_s}$	<input type="checkbox"/>												
<p align="center"><u>Table 1 – Transfer Efficiencies</u></p> <table border="1"> <thead> <tr> <th><u>Application Methods</u></th> <th><u>Transfer Efficiency</u></th> <th><u>Type of Coating</u></th> </tr> </thead> <tbody> <tr> <td>Air atomized spray</td> <td>0.25</td> <td>Prime, color, texture, touch-up, and fog coats.</td> </tr> <tr> <td>Air-assisted airless spray</td> <td>.40</td> <td>Prime and color coats.</td> </tr> <tr> <td>Electrostatic air spray</td> <td>.40</td> <td>Do.</td> </tr> </tbody> </table> <p>where n is the number of coatings of each type used and p is the number of application methods used.</p>		<u>Application Methods</u>	<u>Transfer Efficiency</u>	<u>Type of Coating</u>	Air atomized spray	0.25	Prime, color, texture, touch-up, and fog coats.	Air-assisted airless spray	.40	Prime and color coats.	Electrostatic air spray	.40	Do.
<u>Application Methods</u>	<u>Transfer Efficiency</u>	<u>Type of Coating</u>											
Air atomized spray	0.25	Prime, color, texture, touch-up, and fog coats.											
Air-assisted airless spray	.40	Prime and color coats.											
Electrostatic air spray	.40	Do.											
<p>(E) Calculate the volume-weighted average mass of VOC's emitted per unit volume of coating solids applied (N) during each nominal 1-month period for each coating operation for each affected facility by the following equation:</p> $N = \frac{M_o + M_d}{L_s T_{avg}}$ <p>($T_{avg} = T$ when only one type of coating operation occurs).</p>	<input type="checkbox"/>												

NSPS PROVISION Location and Language	<input checked="" type="checkbox"/> if APPLICABLE
Section 60.723 Performance tests and compliance provisions. (continued)	<input type="checkbox"/>
(ii) Where the volume-weighted average mass of VOC's emitted to the atmosphere per unit volume of coating solids applied (N) is less than or equal to 1.5 kilograms per liter for prime coats, is less than or equal to 1.5 kilograms per liter for color coats, is less than or equal to 2.3 kilograms per liter for texture coats, and is less than or equal to 2.3 kilograms per liter for touch-up coats, the affected facility is in compliance.	<input type="checkbox"/>
(iii) If each individual coating used by an affected facility has a VOC content (kg VOC/l of solids), as received, which when divided by the lowest transfer efficiency at which the coating is applied for each coating operation results in a value equal to or less than 1.5 kilograms per liter for prime and color coats and equal to or less than 2.3 kilograms per liter for texture and touch-up coats, the affected facility is in compliance provided that no VOC's are added to the coatings during distribution or application.	<input type="checkbox"/>
(iv) If an affected facility uses add-on controls to control VOC emissions and if the owner or operator can demonstrate to the Administrator that the volume-weighted average mass of VOC's emitted to the atmosphere during each nominal 1-month period per unit volume of coating solids applied (N) is within each of the applicable limits expressed in paragraph (b)(2)(ii) of this section because of this equipment, the affected facility is in compliance. In such cases, compliance will be determined by the Administrator or a case-by-case basis.	<input type="checkbox"/>
Section 60.724 Reporting and recordkeeping requirements.	<input type="checkbox"/>
(a) The reporting requirements of §60.8(a) apply only to the initial performance test. Each owner or operator subject to the provisions of this subpart shall include the following data in the report of the initial performance test required under §60.8(a):	<input type="checkbox"/>
(1) Except as provided for in paragraph (a)(2) of this section, the volume-weighted average mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) for the initial nominal 1-month period for each coating operation from each affected facility.	<input type="checkbox"/>
(2) For each affected facility where compliance is determined under the provisions of §60.723(b)(2)(iii), a list of the coatings used during the initial nominal 1-month period, the VOC content of each coating calculated from data determined using Method 24, and the lowest transfer efficiency at which each coating is applied during the initial nominal 1-month period.	<input type="checkbox"/>
(b) Following the initial report, each owner or operator shall:	<input type="checkbox"/>
(1) Report the volume-weighted average mass of VOC's per unit volume of coating solids applied for each coating operation for each affected facility during each nominal 1-month period in which the facility is not in compliance with the applicable emission limits specified in §60.722. Reports of noncompliance shall be submitted on a quarterly basis, occurring every 3 months following the initial report; and	<input type="checkbox"/>
(2) Submit statements that each affected facility has been in compliance with the applicable emission limits specified in §60.722 during each nominal 1-month period. Statements of compliance shall be submitted on a semiannual basis.	<input type="checkbox"/>
(c) These reports shall be postmarked not later than 10 days after the end of the periods specified in §60.724(b)(1) and §60.724(b)(2).	<input type="checkbox"/>
(d) Each owner or operator subject to the provisions of this subpart shall maintain at the source, for a period of at least 2 years, records of all data and calculations used to determine monthly VOC emissions from each coating operation for each affected facility as specified in 40 CFR 60.7(d).	<input type="checkbox"/>
(e) Reporting and recordkeeping requirements for facilities using add-on controls will be determined by the Administrator on a case-by-case basis.	<input type="checkbox"/>
Section 60.725 Test methods and procedures.	<input type="checkbox"/>
(a) The reference methods in appendix A to this part except as provided under §60.8(b) shall be used to determine compliance with §60.722 as follows:	<input type="checkbox"/>
(1) Method 24 for determination of VOC content of each coating as received.	<input type="checkbox"/>

NSPS PROVISION Location and Language	<input checked="" type="checkbox"/> if APPLICABLE
Section 60.725 Test methods and procedures. (continued)	<input type="checkbox"/>
(2) For Method 24, the sample must be at least a 1-liter sample in a 1-liter container.	<input type="checkbox"/>
(b) Other methods may be used to determine the VOC content of each coating if approved by the Administrator before testing.	<input type="checkbox"/>
Section 60.726 Delegation of authority.	
(a) In delegating implementation and enforcement authority to a State under section 111(c) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.	
(b) Authorities which will not be delegated to the States: Section 60.723(b)(1) Section 60.723(b)(2)(i)(C) Section 60.723(b)(2)(iv) Section 60.724(e) Section 60.725(b)	