



Massachusetts Department of Environmental Protection

Bureau of Waste Prevention – Air Quality

BWP AQ Coatings & Inks

For Spray Painting, Surface Coating & Printing Operations

Submit with Form CPA-PROCESS for all applicable proposed operations.

Transmittal Number

Facility ID (if known)

Complete this form for the worst case coatings/Inks in each category (e.g. primer, topcoat, sealer) containing the highest quantity of volatile organic compounds (VOC) in pounds of VOC per gallon of solids applied and/or the highest quantity of total hazardous air pollutants (HAPs) in kilograms of HAPs per kilogram of solids/materials applied.

All air contaminants, whether or not defined as VOC and HAPs, are subject to and shall comply with Best Available Control Technology (BACT). BACT cannot be less stringent than any applicable emissions limitation contained in a Department regulation (e.g. 310 CMR 7.05, 7.18, 7.19, 7.24, 7.26 or 7.29) or federal regulation (e.g. 40 CFR 60, 61 or 63).

Refer to applicable coating categories and emission limitations found in Regulation 310 CMR 7.18 as well as applicable New Source Performance Standards (NSPS) and Maximum Achievable Control Technology (MACT) Regulations. Definitions of VOC and HAP can be found in the MassDEP Air Pollution Control Regulations at 310 CMR 7.00 et. seq.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Coating/Ink information

1. Complete the table below with details of proposed worst case volatile organic compound (VOC) and worst case hazardous air pollutant (HAP) Coating(s)/Ink(s) for each Coating/Ink category:

Table 1				
Type of Application:	<input type="checkbox"/> Coating <input type="checkbox"/> Ink			
Category of Coating/Ink: ¹				
Worst Case VOC Coating/Ink ID Number:				
Worst Case VOC Coating/Ink Manufacturer:				
Worst Case HAP Coating/Ink ID Number:				
Worst Case HAP Coating/Ink Manufacturer:				
Emission Unit Upon Which it is Applied: ²				
Application Method: ³				
Substrate Coated: ⁴				
Describe Cleaning Operations:				

¹ e.g. Primer, Topcoat, Sealer. Refer to 310 CMR 7.18, as applicable.

² Use same designation as on Form CPA-PROCESS.

³ e.g. Spray, Roller, Dip. If spray, guns must be High Velocity Low Pressure or MassDEP Approved.

⁴ e.g. Plastic, Metal, Wood, Paper, Fabric, Vinyl.



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B. Coating/Ink Volatile Organic Compound (VOC) Specifications

Note: Attach the most accurate information from the Coating/Ink manufacturer to document the values entered into the table below. Coatings/Inks must, at a minimum, comply with the applicable 310 CMR 7.18 VOC emission limits.

1. Complete the table below for each of the worst case Coating(s)/Ink(s) detailed in Section A.

Table 2a: Worst Case VOC Information								
Coating/Ink ID Number:								
Required Information on Coating/Ink:	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹
Total Pounds of Coating/Ink Per Gallon of Coating/Ink: (Coating/Ink Density)								
Pounds of VOC Per Gallon of Coating/Ink								
Pounds of Solids Per Gallon of Coating/Ink								
Pounds of Water Per Gallon of Coating/Ink								
Pounds of Other Non-VOC ² Liquid Per Gallon of Coating/Ink								
Maximum Thinner and/or Components to Coating/Ink ratio (By Volume)								
Gallon of Solids Per Gallon of Coating/Ink								
Pounds of VOC Per Gallon of Solids								

¹ As applied means after the addition of any material (e.g. thinner, reducer, or catalyst) after the coating/ink has been received from the supplier.

² Non-VOC liquid, for the purpose of this Form, is any liquid not included under the definition of VOC. This includes all organic and/or inorganic liquids excluded in the definition of VOC. Water is not included in this non-VOC definition.



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B. Coating/Ink VOC Specifications (continued)

2. Are there any applicable 310 CMR 7.18 and/or Federal Regulations? Yes – Complete Table No – Skip to C.

Table 2b				
Category of Coating/Ink	Applicable Regulation	Emission Limit	Is the Worst Case Coating/Ink Compliant With Emission Limit as Applied?	Are You Using an Air Pollution Control Device to Comply With Emission Limit? ¹
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

¹ If Yes, you must complete and attach the applicable Pollution Control Device Form (e.g. BWP AQ Afterburner/Oxidizer).

C. Coating/Ink Hazardous Air Pollutant (HAP) Specifications

1. Complete the table below for each of the worst case Coating(s)/Ink(s) detailed in Section A above.

Table 3a: Worst Case HAPs Information								
Coating/Ink ID Number	As Received from the Supplier		As Applied ¹		As Received from the Supplier		As Applied ¹	
Required Information on Coating/Ink:	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹	As Received from the Supplier	As Applied ¹
Coating/Ink (C/l) Density								
Kilograms (kg) of HAP Per Liter C/l								
kg of Solids Per Liter C/l								
kg of Water Per Liter C/l								
kg of Other Non-HAP ² Liquid Per Liter C/l								
kg of Organic HAP Per kg of Solids								

Note: Coating/Ink (C/l) Density means total kilograms (kg) of C/l per liter of C/l.

¹ As applied means after the addition of any material (e.g. thinner, reducer, or catalyst) after the coating/ink has been received from the supplier.

² Non-HAP liquid, for the purposes of this Form, is any liquid not included under the definition of HAP. This includes all organic and/or inorganic liquids excluded in the definition of HAP. Water is not included in this non-HAP liquid definition.

2. Are there any applicable State and/or Federal HAP Regulations? Yes – Complete Table 3b No – Skip to D.



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C. Coating/Ink HAP Specifications (continued)

Table 3b				
Category of Coating/Ink	Applicable Regulation, Including Subpart (e.g. GACT, MACT)	Emission Limit	Is the worst case Coating/Ink compliant with emission limit as applied?	Are you using an air pollution control device (APCD) to comply with emission limit ¹ ?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

¹ If using an air pollution control device, you must complete and attach the applicable form (e.g. BWP AQ Afterburner/Oxidizer).

D. Emissions As Applied

Complete the table below for each Coating/Ink detailed in Section A:

Table 4				
Coating/Ink ID Number:				
Associated Emission Unit(s):				
Maximum Application Rate: (Gallons Per Hour)				
Maximum Hours of Operation in Any Consecutive 12-Month Time Period:				
Maximum Usage in Any Consecutive 12-Month Time Period: (Gallons)				
Maximum Pounds of VOC Emitted Per Hour Before Control:				
Maximum Pounds of VOC Emitted Per Hour After Control:				
Maximum Pounds of Single Highest HAP Emitted Per Hour Before Control:				
Maximum Pounds of Single Highest HAP Emitted Per Hour After Control:				
Maximum Pounds of Total HAPs Emitted Per Hour Before Control:				
Maximum Pounds of Total HAPs Emitted Per Hour After Control:				
Percent of Particulate Matter (PM) Overspray:				
Pounds of PM Emitted Per Hour Before Control:				
Pounds of PM Emitted Per Hour After Control:				

Complete these rows only if this is a spray operation.



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E. Calculations

Submit an attachment with sample calculations of your results identified in Sections B, C and D above, including identification of all your references (e.g. USEPA AP-42 emission factors, other USEPA publication(s), manufacturer's specifications). Also, submit an attachment which quantifies VOC and/or HAP emissions from the cleanup activities.

F. Professional Engineers Stamp

The seal or stamp and signature of a Massachusetts Registered Professional Engineer (P.E.) must be entered below. Both the seal or stamp impression and the P.E. signature must be original. This is to certify that the information contained in this Form has been checked for accuracy, and that the design represents good air pollution control engineering practice.

P.E. Name (Type or Print)

P.E. Signature

Position/Title

Company

Date (MM/DD/YYYY)

P.E. Number



G. Certification by Responsible Official

The signature below provides the affirmative demonstration pursuant to 310 CMR 7.02(5)(c)8 that any facility(ies) in Massachusetts, owned or operated by the proponent for this project (or by an entity controlling, controlled by or under common control with such proponent) that is subject to 310 CMR 7.00, et seq., is in compliance with, or on a MassDEP approved compliance schedule to meet, all provisions of 310 CMR 7.00, et seq., and any plan approval, order, notice of noncompliance or permit issued thereunder. This Form must be signed by a Responsible Official working at the location of the proposed new or modified facility. Even if an agent has been designated to fill out this Form, the Responsible Official must sign it. (Refer to the definition given in 310 CMR 7.00.)

I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment.

Responsible Official Name (Type or Print)

Responsible Official Signature

Responsible Official Title

Responsible Official Company/Organization Name

Date (MM/DD/YYYY)