

wastewater. At least 90 percent of the organic HAP applied must be discharged to the wastewater.

- Determine the organic HAP emissions from the dyeing/finishing affected source. Organic HAP emissions must be less than 10 tons per year.
- Record the calculations and results and include them in your Notification of Compliance Status.

4. *Compliance Based on Using a Capture System and Add-on Control Device.* If you use a capture system and add-on control device on a web coating/printing operation, other than a solvent recovery system for which you conduct a liquid-liquid material balance, you must determine the capture and control efficiencies of the equipment or the oxidizer outlet organic HAP concentration. For the organic HAP emission rate limit, you also must determine the mass fraction of organic HAP and the mass fraction of solids in all materials applied during the initial compliance period. You are required to demonstrate either that the organic HAP OCE is greater than or equal to the applicable organic HAP OCE limit, that the oxidizer outlet organic HAP concentration is no greater than 20 ppmv on a dry basis and the efficiency of the capture system is 100 percent, or that the capture and control system reduces organic HAP emissions to a level no greater than the applicable emission rate limit in the final rule.

If you use a solvent recovery system for which you conduct a liquid-liquid material balance, you are required to demonstrate either that the organic HAP OCE determined by material balance during the initial compliance period is greater than or equal to the applicable organic HAP OCE limit or that the solvent recovery system reduces organic HAP emissions to a level no greater than the applicable emission rate limit.

The testing and initial compliance requirements associated with determining the OCE of the capture system and add-on control device are summarized in the following paragraphs.

If you use a capture system and add-on control device, other than a solvent recovery system for which you conduct material balances, you are required to conduct an initial performance test to determine the capture and control efficiencies of the equipment (or the capture efficiency of the capture system and the oxidizer outlet organic HAP concentration) and to establish operating limits to be achieved on a continuous basis. The performance test must be completed no later than 180 days after the compliance date for affected sources. If you are

demonstrating compliance with the applicable emission rate limit with add-on controls, you must schedule the performance test in time to obtain the results for use in calculating your emission rate for the initial compliance period.

You must determine both the efficiency of the capture system and either the organic HAP emission reduction efficiency of the add-on control device or the outlet organic HAP concentration of the oxidizer. To determine the capture efficiency, you must either verify the presence of a permanent total enclosure (PTE) using EPA Method 204 of 40 CFR part 51, appendix M (and all materials must be applied and dried or cured within the enclosure); or use one of three protocols in the final rule to measure capture efficiency. If you have a PTE and all regulated materials are applied and dried or cured within the enclosure and you route all exhaust gases from the enclosure to an add-on control device, then you assume 100 percent capture. To demonstrate compliance with the oxidizer outlet organic HAP concentration limit, 100 percent capture is required.

To determine the organic HAP emission reduction efficiency of the add-on control device, you must conduct measurements of the inlet and outlet gas streams. Only the outlet gas stream must be measured to determine outlet organic HAP concentration. The performance test must consist of three runs, each run lasting 1 hour, using the following EPA Methods in 40 CFR part 60, appendix A:

- Method 1 or 1A for selection of the sampling sites.
- Method 2, 2A, 2C, 2D, 2F, or 2G to determine the gas volumetric flow rate.
- Method 3, 3A, or 3B for gas analysis to determine dry molecular weight. You may also use as an alternative to Method 3B, the manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas in ANSI/ASME PTC 19.10-1981.
- Method 4 to determine stack moisture.
- Method 25 or 25A to determine organic volatile matter concentration. You must use Method 25A to demonstrate compliance with the oxidizer outlet organic HAP concentration limit because the limit is less than 50 ppmw. Alternatively, any other test method or data that have been validated according to the applicable procedures in Method 301 of 40 CFR part 63, appendix A, and approved by the Administrator, could be used.

If you use a solvent recovery system, you may determine the OCE using a

liquid-liquid material balance instead of conducting an initial performance test. If you use the material balance alternative, you are required to measure the amount of all regulated materials applied during the initial compliance period and determine the total volatile matter contained in these materials. You must also measure the amount of volatile matter recovered by the solvent recovery system during the compliance period. Then you must compare the amount recovered to the amount used to determine the OCE. You must record the calculations and results and include them in your Notification of Compliance Status.

Additional testing and initial compliance requirements associated with demonstrating compliance using the emission rate with add-on controls option are as follows:

- Determine the mass fraction of organic HAP in each coating, printing, thinning, and cleaning material applied and the mass fraction of solids in coating and printing materials applied during the initial compliance period, as described previously.

- Calculate the total mass of organic HAP in all regulated materials and total mass of solids for all coating and printing materials. You may subtract from the total mass of organic HAP the amount contained in waste materials you send to a hazardous waste treatment, storage, and disposal facility regulated under 40 CFR part 262, 264, 265, or 266.

- Calculate the organic HAP emissions reductions from the controlled web coating or printing operations using the capture and control efficiencies determined during the performance test or the materials balance for the compliance period and the total mass of organic HAP in regulated materials applied in controlled web coating and printing operations.

- Calculate the ratio of the total mass of organic HAP emissions to the total mass of solids for the regulated materials applied during the initial compliance period.

- Record the calculations and results and include them in your Notification of Compliance Status.

- Develop and implement a work practice plan to minimize emissions from storage, mixing, and handling of organic HAP-containing materials.

If you choose to comply with the organic HAP emission rate limit by using a capture system and add-on control device on a dyeing/finishing operation, other than a solvent recovery system for which you conduct a liquid-liquid material balance, you must