

accordingly. You may use different compliance options for different coating operations within the affected source and also for the same coating operation at different times.

**Option 1: Compliance based on compliant materials.** If you demonstrate compliance based on the use of compliant materials, you must determine the mass of organic HAP in each coating, thinner, and cleaning material used and the volume fraction of coating solids in each coating used each month during the compliance period. You must demonstrate that the organic HAP content of each coating meets the applicable emission limit, and that you use no thinners or cleaning materials that contain organic HAP.

To determine the mass fraction of organic HAP in coatings, thinners, and cleaning materials and the volume fraction of coating solids, you may either rely on manufacturer's data or on test results using the test methods listed below. You may use alternative test methods provided you get EPA approval in accordance with the General Provisions in 40 CFR 63.7(f).

- For mass fraction of organic HAP, use Method 311 of 40 CFR part 63, appendix A. If there are discrepancies between the methods for determining the mass fraction of organic HAP, they must be resolved through consultation with the regulatory compliance authority.

- The promulgated rule allows you to use non-aqueous volatile matter as a surrogate for organic HAP, which includes all organic HAP plus all other organic compounds, and excluding water. If you choose this option, then you must use Method 24 of 40 CFR part 60, appendix A.

- For volume fraction of coating solids, use one of these options: (1) Use either of the two referenced ASTM methods (D2697–86, 1998, or D6093–97); or (2) calculate using the total volatile matter content of the coating and the average density of the volatile matter in the coating. If the mass fraction of organic HAP in a coating is zero, as determined through test results or manufacturer's formulation data, then the source is not required to determine the volume fraction of coating solids and density or to calculate the organic HAP content.

To demonstrate initial compliance based on the material used, you must demonstrate that the organic HAP content of each coating meets the applicable emission limit, and that you use no organic HAP thinners or cleaning materials.

**Option 2: Compliance based on the emission rate without add-on controls.** If

you demonstrate compliance based on the emission rate without add-on controls option, you must determine the mass fraction of organic HAP in all coatings, thinners, and cleaning materials and the volume fraction of coating solids used each month during the compliance period. You would use the same methods as described above for Option 1. You would also do the following.

- Determine the quantity of each coating, thinner, and cleaning material used.

- Calculate the total mass of organic HAP in all materials and total volume of coating solids used each month. You may subtract the total mass of organic HAP 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 total mass of organic HAP emissions and total volume of coating solids for the compliance period by adding together all the monthly values for mass of organic HAP and for volume of coating solids for the 12 months in the compliance period.

- Calculate the ratio of the total mass of organic HAP for the materials used to the total volume of coating solids used for the compliance period.

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

**Option 3: Compliance based on the emission rate with add-on controls.** If you use a capture system and add-on control device, other than a solvent recovery system for which you conduct a liquid-liquid material balance, you must meet the following testing and compliance requirements.

- Conduct an initial performance test to determine the capture and control efficiencies of the equipment and to establish operating limits to be achieved on a continuous basis. The performance test would have to be completed by the compliance date for existing sources and no later than 180 days after the compliance date for new or reconstructed affected sources.

- Determine the mass fraction of organic HAP in each material and the volume fraction of coating solids for each coating used each month of the compliance period.

- Calculate the total mass of organic HAP in all materials and total volume of coating solids used each month in the coating operation or group of coating operations. 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 emission reductions for the controlled coating operations using the capture and control efficiencies determined during the performance test and the total mass of organic HAP in materials used in controlled coating operations.

- Calculate the total mass of organic HAP emissions and total volume of coating solids for the compliance period by adding together all monthly values for mass of organic HAP and for volume of coating solids for the 12 months in the compliance period.

- Calculate the ratio of the total mass of organic HAP emissions to the total volume of coating solids used during the compliance period.

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

If you use a capture system and add-on control device, other than a solvent recovery system for which you conduct liquid-liquid material balances, you must determine both the efficiency of the capture system and the destruction or removal efficiency of the control device. To determine the capture efficiency, you must either verify the presence of a PTE using EPA Method 204 of 40 CFR part 51, appendix M (and all materials must be applied and dried within the enclosure); or use one of the protocols in § 63.4765 of the final rule to measure capture efficiency. If you have a PTE and all the materials are applied and dried within the enclosure and you route all exhaust gases from the enclosure to a control device, then you must assume 100 percent capture.

To determine the destruction or removal efficiency of the control device, you must conduct measurements of the inlet and outlet gas streams. The test would consist of three runs, each run lasting at least 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.
- Method 4 to determine stack moisture.

- Method 25 or 25A to determine organic volatile matter concentration. 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, may be used.

If you use a solvent recovery system, you could determine the overall control efficiency using a liquid-liquid material balance instead of conducting an initial