

(1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, grams, using Equation 1A of this section:

$$A_c = \sum_{i=1}^m (\text{Vol}_{c,i}) (D_{c,i}) (W_{c,i}) \quad (\text{Eq. 1A})$$

Where:

A_c = Total mass of organic HAP in the coatings used in the controlled coating operation, grams.

$\text{Vol}_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, grams per liter.

$W_{c,i}$ = mass fraction of organic HAP in coating, i, grams per gram.

m = Number of different coatings used.

(2) Calculate the mass of organic HAP in the thinners used in the controlled coating operation, grams, using Equation 1B of this section:

$$B_c = \sum_{j=1}^n (\text{Vol}_{t,j}) (D_{t,j}) (W_{t,j}) \quad (\text{Eq. 1B})$$

Where:

B_c = Total mass of organic HAP in the thinners used in the controlled coating operation during the month, grams.

$\text{Vol}_{t,j}$ = Total volume of thinner, j, used during the month, liters.

$D_{t,j}$ = Density of thinner, j, grams per liter.

$W_{t,j}$ = Mass fraction of organic HAP in thinner, j, grams per gram.

n = Number of different thinners used.

(3) Calculate the mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, grams, using Equation 1C of this section:

$$C_c = \sum_{k=1}^p (\text{Vol}_{s,k}) (D_{s,k}) (W_{s,k}) \quad (\text{Eq. 1C})$$

Where:

C_c = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, grams.

$\text{Vol}_{s,k}$ = Total volume of cleaning material, k, used during the month, liters.

$D_{s,k}$ = Density of cleaning material, k, grams per liter.

$W_{s,k}$ = Mass fraction of organic HAP in cleaning material, k, grams per gram.

p = Number of different cleaning materials used.

(4) Calculate the mass of organic HAP in the coatings, thinners, and cleaning materials used in the controlled coating operation during deviations specified in § 63.4763(c) and (d), using Equation 1D of this section:

$$H_{unc} = \sum_{h=1}^q (\text{Vol}_h) (D_h) (W_h) \quad (\text{Eq. 1D})$$

Where:

H_{unc} = Total mass of organic HAP in the coatings, thinners, and cleaning materials used during all deviations specified in § 63.4763(c) and (d) that occurred during the month in the controlled coating operation, grams.

Vol_h = Total volume of coating, thinner, or cleaning material, h, used in the controlled coating operation during deviations, liters.

D_h = Density of coating, thinner, or cleaning material, h, grams per liter.

W_h = mass fraction of organic HAP in coating, thinner, or cleaning material, h, grams organic HAP per gram coating.

q = Number of different coatings, thinners, or cleaning materials.

(i) [Reserved]

(j) *Calculate the organic HAP emission reduction for each controlled coating operation using liquid-liquid material balances.* For each controlled coating operation using a solvent recovery system for which you conduct liquid-liquid material balances, calculate the organic HAP emission reduction by applying the volatile organic matter collection and recovery efficiency to the mass of organic HAP contained in the coatings, thinners, and cleaning materials that are used in the coating operation controlled by the solvent recovery system during each month. Perform a liquid-liquid material balance for each month as specified in paragraphs (j)(1) through (6) of this section. Calculate the mass of organic

HAP emission reduction by the solvent recovery system as specified in paragraph (j)(7) of this section.

(1) For each solvent recovery system, install, calibrate, maintain, and operate according to the manufacturer's specifications, a device that indicates the cumulative amount of volatile organic matter recovered by the solvent recovery system each month. The device must be initially certified by the manufacturer to be accurate to within ± 2.0 percent of the mass of volatile organic matter recovered.

(2) For each solvent recovery system, determine the mass of volatile organic matter recovered for the month, grams, based on measurement with the device required in paragraph (j)(1) of this section.