

$H_{unc}$  = Total mass of organic HAP in the coatings, thinners, and cleaning materials used during all deviations specified in § 63.3542(c) and (d) that occurred during the month in the controlled coating operation, kg, as calculated in Equation 1D of this section.

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in §§ 63.3543 and 63.3544 to measure and record capture efficiency.

DRE = Organic HAP destruction or removal efficiency of the add-on

control device, percent. Use the test methods and procedures in §§ 63.3543 and 63.3545 to measure and record the organic HAP destruction or removal efficiency.

(1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, kg, 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 during the month, kg.

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

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

$W_{c,i}$  = Mass fraction of organic HAP in coating, i, kg per kg.

$m$  = Number of different coatings used.

(2) Calculate the mass of organic HAP in the thinners used in the controlled coating operation, kg, 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, kg.

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

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

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

$n$  = 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, kg, 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, kg.

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

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

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

$p$  = 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 § 63.3542(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 § 63.3542(c) and (d) that occurred during the month in the controlled coating operation, kg.

$\text{Vol}_h$  = 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, kg per liter.

$W_h$  = Mass fraction of organic HAP in coating, thinner, or cleaning material, h, kg organic HAP per kg coating.

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

(i) 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 and thinners that are used in the coating operation controlled by the solvent recovery system during each month. Perform a liquid-liquid material balance for each