

resulting emissions calculations in the precompliance report.

(i) When you are required to calculate uncontrolled emissions from heating, you may not calculate emissions using Equation 13 of subpart GGG of this part 63.

(ii) The statement in § 63.1257(d)(2)(i)(B) that “the partial pressure of HAP shall be assumed to be 25 percent of the saturated value if the purge flow rate is greater than 100 scfm” does not apply. For the purposes of this subpart, multiply the HAP partial pressure in Equation 12 of 40 CFR part 63, subpart GGG by a HAP-specific saturation factor determined in accordance with Equations 1 through 3 of this section. Solve equation 1 of this section iteratively beginning with saturation factors (in the right-hand side of the equation) of 1.0 for each condensable compound. Stop iterating when the calculated saturation factors for all compounds are the same to two significant figures for subsequent iterations. Note that for multi-component emission streams, saturation factors must be calculated for all noncondensables in the emission stream.

$$S_i = \frac{K_i A}{K_i A + V + \sum_{i=1}^n S_i V_i^{\text{sat}}} \quad \text{Eq. 1}$$

$$V_i^{\text{sat}} = \frac{VP_i}{\left(P_T - \sum_{i=1}^n P_i\right)} \quad \text{Eq. 2}$$

$$K_i = K_o \left(\frac{M_o}{M_i} \right)^{1/3} \quad \text{Eq. 3}$$

where:

S_i =saturation factor for individual condensable compounds in the emission stream

P_i =partial pressure of individual condensable compounds in the emission stream calculated using Raoult's Law or other appropriate methods

P_T =pressure of the vessel vapor space
 A =surface area of liquid

V =purge flow rate as used in Equation 12 of 40 CFR part 63, subpart GGG

V_i^{sat} =volumetric flowrate of condensable compounds in the emission stream

K_i =mass transfer coefficient of individual condensable compounds in the emission stream

K_o =mass transfer coefficient of a reference compound (e.g., 0.83 cm/s for water)

M_o =molecular weight of reference compound (e.g., 18.02 for water)

M_i =molecular weight of individual condensable compounds in the emission stream

n =number of condensable compounds in the emission stream

(2) Estimate controlled emissions in pounds per batch for each vessel as specified in paragraphs (c)(2)(i) through (iii) of this section.

(i) Except as specified in paragraphs (c)(2)(ii) and (iii) of this section, estimate controlled emissions as if the vessel were controlled in compliance with entry 2.b.i. in Table 1 to this subpart.

(ii) Estimate the controlled emissions using the control level achieved on November 15, 1990 if that value is greater than the applicable control level required by entry 2.b.i. in Table 1 to this subpart.

(iii) Estimate the controlled emissions using the control level required to comply with a State or Federal rule other than this subpart if that level is greater than the applicable control level required by entry 2.b.i. in Table 1 to this subpart and the other rule was in effect before the date when you request approval to comply with emissions averaging.

(3) Determine actual emissions in pounds per batch for each vessel in accordance with paragraphs (c)(2)(i), (ii), or (iii), as applicable.

(i) If emissions are routed through a closed-vent system to a condenser control device, determine controlled emissions using the procedures specified in § 63.1257(d)(3).

(ii) If emissions are routed through a closed-vent system to any control device other than a condenser, determine actual emissions after determining the efficiency of the control device using the procedures in subpart SS of this part 63 as specified in § 63.8000(c).

(iii) If the vessel is vented to the atmosphere, then actual emissions are equal to the uncontrolled emissions estimated in accordance with paragraph (c)(1) of this section.

(4) Provide rationale in the precompliance report for why the sum of the actual emissions will be less than the sum of emissions from the vessels if they had been controlled in accordance with Table 1 to this subpart. The approved actual emissions calculated according to paragraph (c)(3) of this section are emission limits that must be incorporated into your operating permit.

(d) *Continuous compliance.* (1) Maintain a monthly log of the number of batches produced that can be correlated with the emissions estimates

per batch developed in accordance with paragraph (c) of this section.

(2) Sum the actual emissions for all of the process vessels in the emissions averaging group every three months, with the first 3-month period beginning on the compliance date, and compare the resulting total with the total emissions for the vessels calculated in accordance with paragraph (c)(2) of this section. Compliance is demonstrated if the sum of the actual emissions is less than the emissions estimated in accordance with paragraph (c)(2) of this section.

(3) For control devices, establish operating limits and monitor as specified in § 63.8000.

(e) *Recordkeeping and reporting.* Comply with §§ 63.8070, 63.8075, and 63.8080.

§ 63.8055 How do I comply with a weight percent HAP limit in coating products?

(a) As an alternative to complying with the requirements in Table 1 to this subpart for each individual stationary process vessel at an existing source, you may elect to comply with a 5 weight percent HAP limit for process vessels at your affected source that are used to manufacture coatings with a HAP content of less than 0.05 kg per kg product as specified in paragraph (b) of this section.

(b) You may only comply with the alternative during the production of coatings that contain less than 5 weight percent HAP, as determined using any of the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) Method 311 (appendix A to 40 CFR part 63).

(2) Method 24 (appendix A to 40 CFR part 60). You may use Method 24 to determine the mass fraction of volatile matter and use that value as a substitute for the mass fraction of HAP.

(3) You may use an alternative test method for determining mass fraction of HAP if you obtain prior approval by the Administrator. You must follow the procedure in § 63.7(f) to submit an alternative test method for approval.

Notification, Reports, and Records

§ 63.8070 What notifications must I submit and when?

(a) You must submit all of the notifications in §§ 63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e), (f)(4) and (6), 63.9(b) through (h) that apply to you by the dates specified.

(b) *Initial notification.* (1) As specified in § 63.9(b)(2), if you have an existing affected source on December 11, 2003, you must submit an initial notification