

Subpart B [Reserved]**Subpart C—Storage Vessels****§ 65.40 Applicability.**

(a) The provisions of this subpart and of subpart A of this part apply to control of regulated material emissions from surge control vessels, bottoms receivers, and other storage vessels where a referencing subpart references the use of this subpart for such emissions control.

(b) If a physical or process change is made that causes a storage vessel to fall outside the criteria in the referencing subpart that required the storage vessel to control emissions of regulated material, the owner or operator may elect to no longer comply with the provisions of this subpart. Instead, the owner or operator shall comply with any applicable provisions of the referencing subpart.

§ 65.41 Definitions.

All terms used in this subpart shall have the meaning given them in the Act and in subpart A of this part. If a term is defined in both subpart A of this part and in other subparts that reference the use of this subpart, the term shall have the meaning given in subpart A of this part for purposes of this subpart.

§ 65.42 Control requirements.

(a) For each storage vessel to which this subpart applies, the owner or operator shall comply with the requirements of paragraph (b) or (c) of this section.

(b) For each storage vessel storing a liquid for which the maximum true vapor pressure of the total regulated material in the liquid is less than 76.6 kilopascals (10.9 pounds per square inch), the owner or operator shall reduce regulated material emissions to the atmosphere as provided in any one of the paragraphs (b)(1) through (7) of this section.

(1) *Internal floating roof (IFR)*. Operate and maintain a fixed roof and internal floating roof meeting the requirements of § 65.43.

(2) *External floating roof (EFR)*. Operate and maintain an external floating

roof meeting the requirements of § 65.44.

(3) *EFR converted to IFR*. Operate and maintain an external floating roof converted to an internal floating roof meeting the requirements of § 65.45.

(4) *Closed vent system and flare*. Operate and maintain a closed vent system and flare as specified in § 65.142(a)(1). Periods of planned routine maintenance of the flare during which the flare does not meet the specifications of § 65.147 shall not exceed 240 hours per year. The specifications and requirements in § 65.147 for flares do not apply during periods of planned routine maintenance or during a control system malfunction. The owner or operator shall report the periods of planned routine maintenance as specified in § 65.166(d).

(5) *Closed vent system and control device*. Operate and maintain a closed vent system and control device as specified in the following and § 65.142(a)(2):

(i) Except as provided in paragraph (b)(5)(ii) of this section, the control device shall be designed and operated to reduce inlet emissions of regulated material by 95 percent or greater.

(ii) For owners or operators referenced to this part from 40 CFR part 63, subpart G, and if the owner or operator of a storage vessel can demonstrate that a control device installed on the storage vessel on or before December 31, 1992 is designed to reduce inlet emissions of total organic HAP by greater than or equal to 90 percent but less than 95 percent, then the control device is required to be operated to reduce inlet emissions of total organic HAP by 90 percent or greater.

(iii) Periods of planned routine maintenance of the control device, during which the control device does not meet the specifications of paragraph (b)(5)(i) or (ii) of this section, shall not exceed 240 hours per year. The owner or operator shall report the periods of planned routine maintenance as specified in § 65.166(d).

(iv) The requirements in paragraph (b)(5)(i) of this section for control devices do not apply during periods of planned routine maintenance or during a control system malfunction.

(6) *Route to process or fuel gas system*. Route the emissions to a process or a

fuel gas system as specified in § 65.142(a)(3). Whenever the owner or operator bypasses the fuel gas system or process, the owner or operator shall comply with the recordkeeping requirement in § 65.163(b)(3). Bypassing is permitted if the owner or operator complies with one or more of the following conditions:

- (i) The liquid level in the storage vessel is not increased;
- (ii) The emissions are routed through a closed vent system to a control device complying with paragraph (b)(4) or (5) of this section; or
- (iii) The total aggregate amount of time during which the emissions bypass the fuel gas system or process during the calendar year without being routed to a control device, for all reasons (except startups/shutdowns/malfunctions or product changeovers of flexible operation units and periods when the storage vessel has been emptied and degassed), does not exceed 240 hours.

(7) *Equivalent requirements.* Comply with an equivalent to the requirements in any one of the paragraphs (b)(1) through (6) of this section, as provided in § 65.46.

(c) For each storage vessel storing a liquid for which the maximum true vapor pressure of the total regulated material in the liquid is greater than or equal to 76.6 kilopascals (10.9 pounds per square inch), the owner or operator shall meet the requirements in paragraph (b)(4), (5), or (6) of this section, or equivalent as provided in § 65.46.

§ 65.43 Fixed roof with an internal floating roof (IFR).

(a) *IFR design requirements.* The owner or operator who elects to control storage vessel regulated material emissions by using a fixed roof and an internal floating roof shall comply with the design requirements in paragraphs (a)(1) through (4) of this section.

(1) The internal floating roof shall be designed to float on the stored liquid surface except when the floating roof must be supported by the leg supports.

(2) Except as provided in paragraph (a)(3) of this section, the internal floating roof shall be equipped with a closure device between the wall of the storage vessel and the floating roof

edge and shall consist of one of the following devices:

- (i) A liquid-mounted seal.
 - (ii) A metallic shoe seal.
 - (iii) Two continuous seals mounted one above the other. The lower seal may be vapor-mounted.
- (3) If the internal floating roof is equipped with a vapor-mounted seal as of December 31, 1992, paragraph (a)(2) of this section does not apply until the next time the storage vessel is emptied and degassed, or by April 22, 2004, whichever occurs first.

(4) Except as provided in paragraph (a)(4)(viii) of this section, each internal floating roof shall meet the following specifications:

(i) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents is to provide a projection below the stored liquid surface.

(ii) Except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains, each opening shall be equipped with a gasketed cover or gasketed lid.

(iii) Each penetration of the internal floating roof shall be a sample well. Each sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

(iv) Each automatic bleeder vent and rim space vent shall be gasketed.

(v) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

(vi) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

(vii) Covers on each access hatch and each gauge float well shall be designed to be bolted or fastened when they are closed.

(viii) If the internal floating roof does not meet any one of the specifications listed in paragraphs (a)(4)(i) through (vii) of this section as of December 31, 1992, the requirement for meeting those specifications does not apply until the next time the storage vessel is emptied and degassed, or by April 22, 2004, whichever occurs first.