
40 C.F.R. § 264.1085

Standards: Surface impoundments.

- (a) The provisions of this section apply to the control of air pollutant emissions from surface impoundments for which § 264.1082(b) of this subpart references the use of this section for such air emission control.
- (b) The owner or operator shall control air pollutant emissions from the surface impoundment by installing and operating either of the following:
- (1) A floating membrane cover in accordance with the provisions specified in paragraph (c) of this section; or
 - (2) A cover that is vented through a closed-vent system to a control device in accordance with the provisions specified in paragraph (d) of this section.
- (c) The owner or operator who controls air pollutant emissions from a surface impoundment using a floating membrane cover shall meet the requirements specified in paragraphs (c)(1) through (c)(3) of this section.
- (1) The surface impoundment shall be equipped with a floating membrane cover designed to meet the following specifications:
- (i) The floating membrane cover shall be designed to float on the liquid surface during normal operations and form a continuous barrier over the entire surface area of the liquid.
 - (ii) The cover shall be fabricated from a synthetic membrane material that is either:
 - (A) High density polyethylene (HDPE) with a thickness no less than 2.5 millimeters (mm); or
 - (B) A material or a composite of different materials determined to have both organic permeability properties that are equivalent to those of the material listed in paragraph (c)(1)(ii)(A) of this section and chemical and physical properties that maintain the material integrity for the intended service life of the material.
 - (iii) The cover shall be installed in a manner such that there are no visible cracks, holes, gaps, or other open spaces between cover section seams or between the interface of the cover edge and its foundation mountings.
 - (iv) Except as provided for in paragraph (c)(1)(v) of this section, each opening in the floating membrane cover shall be equipped with a closure device designed to operate such that when the closure device is secured in the closed position there are no visible cracks, holes, gaps, or other open spaces in the closure device or between the perimeter of the cover opening and the closure device.
 - (v) The floating membrane cover may be equipped with one or more emergency cover drains for removal of stormwater. Each emergency cover drain shall be equipped with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening or a flexible fabric sleeve seal.
 - (vi) The closure devices shall be made of suitable materials that will minimize exposure of the hazardous waste to
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the atmosphere, to the extent practical, and will maintain the integrity of the closure devices throughout their intended service life. Factors to be considered when selecting the materials of construction and designing the cover and closure devices shall include: Organic vapor permeability; the effects of any contact with the liquid and its vapor managed in the surface impoundment; the effects of outdoor exposure to wind, moisture, and sunlight; and the operating practices used for the surface impoundment on which the floating membrane cover is installed.

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