

5.7.1 Control Devices - Floating Membrane Cover
(40 CFR 264.1085(c))

The floating membrane cover is 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. Whenever a hazardous waste is in the surface impoundment, the floating membrane cover floats on the liquid and each closure device is secured in the closed position except (a) to provide access for performing routine maintenance, inspection, and other normal operations activities or (b) to remove accumulated sludge or other residues from the bottom of surface impoundment. Once the activity is completed, the cover shall be promptly replaced and the closure device secured. A safety device may be opened when conditions require doing so to avoid an unsafe condition.

The cover may be equipped with one or more emergency cover drains for removal of stormwater. Each shall be equipped with a slotted membrane fabric cover that covers at least 90 % of the area of the opening or a flexible fabric sleeve seal.

Acceptable cover devices are made of suitable materials that will minimize exposure of the hazardous waste to the atmosphere, the extent practical, and which maintain the integrity of the closure devices throughout their intended service life. The synthetic membrane material used for the floating membrane cover can be a high density polyethylene (HDPE) or an equivalent material. The HDPE must have a thickness of no less than 2.5 milliliters (mm). If a material or a composite of

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different materials is used, the material will need to have both organic permeability properties that are equivalent to those of HDPE and physical and chemical properties that maintain the material integrity for the intended service life of the material.