

**7011.1510 MONITORING OPERATIONS.**

Subpart 1. **Records.** The owner or operator of any storage vessel, the construction or modification of which began on or after June 11, 1973, that has a storage capacity of greater than 40,000 gallons (151,412 liters) must for each storage vessel:

A. maintain a file of each type of petroleum liquid stored, the typical Reid vapor pressure of each type of petroleum liquid stored, the dates of storage and withdrawals, and the date on which the storage vessel is empty; and

B. determine and record the average monthly storage temperature and true vapor pressure of the petroleum liquid stored at such temperature if:

(1) the petroleum liquid has a true vapor pressure, as stored, greater than 26 mm Hg (0.5 psia) but less than 78 mm Hg (1.5 psia) and is stored in a storage vessel other than one equipped with a floating roof, a vapor recovery system, or their equivalents; or

(2) the petroleum liquid has a true vapor pressure, as stored, greater than 470 mm Hg (9.1 psia) and is stored in a storage vessel other than one equipped with a vapor recovery system or its equivalent.

Subp. 2. **Calculation.** The average monthly storage temperature is an arithmetic average calculated for each calendar month, or portion thereof if storage is for less than a month, from bulk liquid storage temperatures determined at least once every seven days.

Subp. 3. **Vapor pressure determination.** The true vapor pressure is determined by the procedure in American Petroleum Institute Bulletin 2517. This procedure is dependent upon determining the storage temperature and the Reid vapor pressure, which requires sampling the petroleum liquids in the storage vessels. Unless the commissioner requires in specific cases that the stored petroleum liquid be sampled, the true vapor pressure may be determined by using the average monthly storage temperature and the typical Reid vapor pressure. For those liquids for which certified specifications limiting the Reid vapor pressure exist, that Reid vapor pressure may be used. For other liquids, supporting analytical data must be made available on request of the commissioner when typical Reid vapor pressure is used.

**Statutory Authority:** *MS s 116.07*

**History:** *L 1987 c 186 s 15; 18 SR 614; 44 SR 1030*

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