

AGENCY OF NATURAL RESOURCES

Waterbury, Vermont

ENVIRONMENTAL PROTECTION REGULATIONS

CHAPTER 5

AIR POLLUTION CONTROL

Subchapter II. Prohibitions

Subsection 5-253.1 Petroleum Liquid Storage in Fixed Roof Tanks

- (a) **Applicability.** This subsection shall apply to any above ground fixed roof storage tank with a capacity greater than 40,000 gallons (151,417 liters) used to store petroleum liquid having a true vapor pressure equal to or greater than 1.52 pounds per square inch (10.5 kilo Pascals).
- (b) **Standards.**
 - (1) The owner or operator of a fixed roof tank subject to this subsection shall equip the tank with an internal floating roof equipped with a closure seal or seals to close the space between the roof edge and tank wall.
 - (2) The owner or operator of a fixed roof tank subject to this subsection shall ensure that:
 - (i) The tank is maintained so that there are no visible holes, tears or other openings in the seal or any seal fabric or materials; and
 - (ii) All openings, except stub drains, are equipped with covers, lids or seals so that:
 - (A) The cover, lid or seal is in the closed position at all times except when in actual use;
 - (B) Automatic bleeder vents are closed at all times except when the roof is being floated off or being landed on the roof leg supports; and

- (C) Rim vents, if provided, are set to open only when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.
- (c) Inspection requirements. The owner or operator of a fixed roof tank subject to this subsection shall perform the following inspections:
 - (1) For tanks with a single seal system:
 - (i) Visually inspect the internal floating roof and its closure seal or seals through roof hatches at least once every 12 months; and
 - (ii) Perform a complete inspection of any cover and single seal whenever the tank is emptied for reasons other than routine operations or at least every 10 years, whichever is more frequent.
 - (2) For tanks equipped with a double seal system:
 - (i) Visually inspect the internal floating roof and its closure seal or seals through the roof hatches at least once every 5 years; and
 - (ii) Perform a complete inspection of any cover and double seal whenever the tank is emptied for reasons other than routine operations or at least every 5 years, whichever is more frequent; or
 - (iii) An alternative means of inspection and compliance monitoring of equal or greater effectiveness as the inspection requirement of paragraph (c)(2)(ii), that is approved by the Secretary.
- (d) Record keeping. The owner or operator of a petroleum liquid storage tank with a fixed roof subject to this subsection shall maintain the following records in a readily accessible location for a minimum of three years and shall make copies of the records available to the Air Pollution Control Officer upon request:
 - (1) Records of the types of volatile petroleum liquids stored in that tank;
 - (2) Records of the maximum true vapor pressure as stored; and
 - (3) Records of the results of inspections required in paragraph (c) of this subsection.
- (e) Compliance. Fixed roof tanks subject to this subsection shall be in compliance on or before the effective date of this rule.