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## 527 CMR: BOARD OF FIRE PREVENTION REGULATIONS

### 5.06: Inventory

All underground storage facilities except fuel oil tanks and containers connected with burning equipment shall be installed and monitored for the prevention and detection of leakage of flammable and combustible liquids in accordance with the following provisions:

(1) Accurate daily inventory records by means of dip sticking shall be maintained and reconciled on all flammable or combustible liquid underground storage tanks for indication of possible leakage from said tanks or piping. Dipsticks shall be accurate and maintained in legible condition. The operator of the location shall be responsible to have on site an accurate dipstick calibration chart for each tank in which inventory by sticking is required. The records shall be kept on the premises or readily available for inspection by any member of the Department of Public Safety, head of the fire department or his designee, and shall include, as a minimum, records showing type of product, daily reconciliation between sales, use, receipts and inventory on hand. If there is more than one system consisting of a tank(s), serving pump(s) or dispenser(s) for any product, the reconciliation shall be maintained separately for each tank system.

(2) Daily inventory shall be maintained for each tank system at each location by the operator. The inventory records shall be kept for a minimum of the past 12 months at the premises or readily available. The term operator shall mean the lessee or persons(s) in control of and having responsibility for the daily operation of the facility for the storage and dispensing of flammable and combustible liquids.

(3) Inventory shall be based on the actual daily measurement and recording of tank product and water levels and the daily recording of actual sales, use, and receipts. Daily measurements will be acceptable either by gauge, gauge stick, or by readout from an automated gauging system. The inventory records shall include a daily computation of gain or loss. The mere recording of pump meter readings and product delivery receipts shall not constitute adequate inventory records.

(4) The operator of the location shall be responsible to notify the head of the fire department of situation, and to notify the owner or person(s) in control of the facility to take action to correct any abnormal loss or gain not explainable by spillage, temperature variations or other causes. The term owner shall mean the person(s) who owns, as real property, the tank storage system used for the storage and dispensing of flammable and combustible liquids.

## 527 CMR: BOARD OF FIRE PREVENTION REGULATIONS

### 5.06: continued

- (5) As a minimum the following steps shall be taken in an expeditious manner when daily inventory records indicate an abnormal loss:
- (a) The inventory records shall be checked for error.
  - (b) If no error is apparent, an independent calculation of apparent loss shall be made by a qualified person starting from a point in time where the records indicate a no loss condition.
  - (c) If 527 CMR 5.06(5)(b) confirms no apparent loss, the readily accessible physical facilities on the premises shall be carefully inspected for evidence of leakage.
  - (d) If 527 CMR 5.06(5)(c) does not disclose a leak, the dispensers used with the particular product involved with the apparent loss shall be checked for calibration.
  - (e) If 527 CMR 5.06(5)(a) through (d) do not explain the apparent loss, the situation shall be reported promptly to the head of the fire department.
  - (f) If 527 CMR 5.06(5)(d) does not explain the loss, and if the piping system can be tested without the need for excavation, the piping system between the storage tank and dispenser(s) shall be tested in accordance with 527 CMR 9.00. If it is necessary to excavate to perform a piping test, such a test shall be conducted after a storage tank test has been performed in accordance with 527 CMR 5.06(5)(g).
  - (g) If 527 CMR 5.06(5)(f) does not disclose a leak, the storage tank(s) shall be tested for tightness by an approved test.
  - (h) If 527 CMR 5.06(5)(a) through (g) do not confirm the apparent loss, the daily inventory shall be continued with a daily independent verification by a qualified person. Additional surveillance of the facility should be engaged to insure against unauthorized removal of product.
  - (i) If any of 527 CMR 5.06(5)(a) through (h) or investigations indicate the source of the loss, the owner shall take immediate action to correct the system failure.
- (6) Daily inventories need not be maintained on those days that an installation is not in operation, but not to exceed 15 days.
- (7) The owner and operator will conduct an inventory verification program on a scheduled basis, at least once every year. A copy of the record of this verification program shall be kept on the premises available for inspection by any member of the Department of Public Safety or head of the fire department or his designee.

NOTE: Upon the cessation of the exercise of a license, the holder of said license shall notify the local licensing authority and head of the fire department in his area or district. The head of the fire department shall prescribe rules to eliminate hazardous conditions incident to such cessation.