7150.0250 RESTORATION, CORRECTIVE ACTIONS, AND REQUIRED PERMANENT CLOSURE.

Subpart 1. **Unusual operating conditions.**

A. Owners and operators must immediately investigate and remedy all unusual operating conditions in a UST system. The owner or operator must take the UST system out of service unless:

(1) the unusual operating condition is investigated and resolved in accordance with this chapter;

(2) any defective components are isolated from the UST system to prevent a leak; or

(3) any defective components or equipment are repaired by a person certified under chapter 7105.

B. The owner or operator must report unresolved unusual operating conditions that may have resulted in a leak or that indicate a release has occurred according to part 7150.0345, subpart 2.

Subp. 2. **Repairs.**

A. Owners and operators must maintain a UST system according to the manufacturer's instructions. If instructions are not available, owners and operators must maintain the functions of a UST system as intended by the manufacturer or according to industry standards. Repairs must ensure that releases due to structural failures, equipment failures, or corrosion do not occur while storing regulated substances in a UST system or while operating the UST system.

B. Within 30 days after completing a repair, owners and operators must ensure that:

(1) a repaired tank passes a tightness test according to part 7150.0330, subpart 4;

(2) repaired piping passes a tightness test according to part 7150.0340, subpart 3, item A; and

(3) repaired secondary-containment areas of tanks, piping used for interstitial monitoring, and containment sumps used for interstitial monitoring or piping passes an integrity test according to part 7150.0216, subpart 4.

C. Subitems (1) to (3) are codes of practice for repaired secondary-containment areas of tanks, piping, or containment sumps used for interstitial monitoring. The codes are incorporated by reference under part 7150.0500 and must be used to comply with this part:

(1) Fiberglass Tank and Pipe Institute, Field Test Protocol for Testing the Annular Space of Installed Underground Fiberglass Double and Triple-Wall Tanks with Dry Annular Space, RP 2007-2;

(2) Steel Tank Institute, Recommended Practice for Interstitial Tightness Testing of Existing Underground Double Wall Steel Tanks, R012; and

(3) Petroleum Equipment Institute, Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities, PEI/RP1200.

D. Within six months after a cathodic-protection system is repaired, the cathodic-protection system must be tested according to part 7150.0215 to ensure that it is operating properly. Impressed-current systems must be repaired according to part 7150.0215, subpart 3, item D. Sacrificial-anode systems must be repaired according to part 7150.0215, subpart 2, item C.

E. Within 30 days of any repair to spill-prevention or overfill-prevention equipment, the repaired spill-prevention or overfill-prevention equipment must be tested or inspected to ensure it is operating properly according to part 7150.0216.

F. Within 30 days of any repair to components of a UST system that are used for leak detection, the repaired or replaced component must be tested or inspected to ensure it is operating properly according to part 7150.0216.

G. Owners and operators must ensure repairs to UST systems are properly conducted according to one of the codes of practice in this item developed by a nationally recognized association or independent testing laboratory and incorporated by reference under part 7150.0500, except that repairs to fiber-reinforced plastic tanks may be made by the manufacturer's authorized representative.

(1) American Petroleum Institute, Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems, API RP 1632.

(2) American Petroleum Institute, Repairing Hazardous Liquid Pipelines, API RP 2200.

(3) American Petroleum Institute, Interior Lining and Periodic Inspection of Underground Storage Tanks, API STD 1631.

(4) Fiberglass Tank and Pipe Institute, Remanufacturing of Fiberglass Reinforced Plastic (FRP) Underground Storage Tanks, RP T-95-1.

(5) NACE International, Corrosion Control of Underground Storage Tank Systems by Cathodic Protection, SP0285-2011.

(6) National Fire Protection Association, Flammable and Combustible Liquids Code, NFPA 30.

(7) National Fire Protection Association, Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair, NFPA 326.

(8) National Leak Prevention Association, Entry, Cleaning, Interior Inspection, Repair, and Lining of Underground Storage Tanks, NLPA 631, Chapter A.

(9) Steel Tank Institute, Recommended Practice for the Addition of Supplemental Anodes to sti-P3® UST's, R972.

Subp. 3. **Replacement.**

A. Components of a UST system that do not meet the performance standards in part 7150.0100 must be repaired or replaced. Owners and operators must replace

any component not functioning properly according to this chapter.

B. The entire piping run, not including a submersible pump or any dispenser, must be replaced with secondary-containment piping according to part 7150.0205, subpart 3, if:

(1) metal segments are found to have pitting-type corrosion damage;

(2) metal or noncorrodible piping segments have released a regulated substance;

(3) pipe segments are found to have degraded because of age, incompatibility, or poor installation practices; or

(4) 50 percent or more of the piping run is replaced.

C. Piping may be repaired and the entire piping run need not be replaced if:

(1) the piping is secondarily contained according to part 7150.0205, subpart 3;

(2) a release is due to an external, onetime cause, such as damage during excavation; or

(3) a release occurring on a piping appurtenance, such as a flex connector, shear valve, or check valve, did not occur as a result of corrosion.

Subp. 4. **Required permanent closure.** Owners and operators must ensure that a tank system or pipe system is permanently closed according to part 7150.0410 and a site assessment is completed according to part 7150.0345, subpart 3, if:

A. a tank has shifted upward from its original burial position to the extent that the UST has caused a bulge in the concrete or cover material over the tank or components secured to the top of the UST are contacting access covers, unless repairs can be made to the UST system to prevent the tank from shifting and ensure that the UST system has not been, nor will be, damaged;

B. a UST that is not secondarily contained has released a regulated product to the environment, unless the UST can be retrofitted according to part 7150.0205, subpart 1; or

C. the inner or outer shell of a secondarily contained UST, including retrofit tanks, or pipe is not liquid tight, unless the tank or pipe can be repaired according to subpart 2.

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