

CHAPTER 59 OPERATION AND MAINTENANCE OF USTs

Secs.

5900 Spill and Overfill Control
5901 Tank Corrosion Protection
5902 Repair of UST Systems
5903 Compatibility

5900 SPILL AND OVERFILL CONTROL

- 5900.1 Each owner, operator or a person-in-charge, as defined in § 7099.1, shall ensure that releases due to spilling or overfilling do not occur. In complying with the requirements of this section, owners, operators and persons-in-charge shall follow a code of practice developed by a nationally recognized association or independent testing laboratory, as specified by the Director.
- 5900.2 Before each transfer is made, the owner, operator or the person-in-charge shall ensure that the volume available in the tank is greater than the volume of product to be transferred to the tank.
- 5900.3 The owner, operator or the person-in-charge shall ensure that each transfer operation is monitored constantly to prevent overfilling and spilling and is performed in accordance with the UST manufacturer's specifications.
- 5900.4 Where product is transferred by means of pressurized delivery, delivery nozzles shall be held open manually.
- 5900.5 Where product is transferred by means of pressurized delivery a vent alarm device shall be installed within one (1) year of November 12, 1993; provided, that the tank is accessible and that said alarm can be installed without the need for excavation.
- 5900.6 If the vent alarm indicates an obstruction to the vent, delivery shall be discontinued until the vent has been cleared.
- 5900.7 The owner or operator shall ensure that the spill prevention equipment is kept clean and dry.
- 5900.8 The owner or operator shall ensure that all fill lines for the UST system are clearly marked to indicate the size of the tank and the type of regulated substance stored. The owner or operator shall satisfy this requirement by one of the following methods:
- (a) Installing a permanent tag or sign immediately adjacent to the fill pipes which states the size of the tank and the specific type of substance stored; or
 - (b) Applying a color code that conforms to the following requirements:
 - 1) Color markings in accordance with API 1637 "Product Identification", shall be painted or placed around the fill or

manhole cover in a manner that will readily identify the regulated substance in the storage tank; or

(2) Regulated substances or products stored in USTs that are not listed in API 1637 may be identified with the standard industry or business color code for the corresponding substance or product; and

(3) The color code shall be painted on a sign not less than 8 x 10 inches with letters not less than 5/16 inch high, posted at the facility in a prominent location visible from the fill pipe area, and available for inspection at all times to show the size and type of regulated substance stored.

5900.9 Pipes or other openings may not be marked in any way which could be associated with a regulated substance stored at the facility, unless the pipes or openings are used for the transfer of that substance.

5900.10 The owner, operator or any other responsible party shall report, investigate, and clean up any spills and overfills, in accordance with the provisions of Chapter 62 of this Subtitle.

5901 TANK CORROSION PROTECTION

5901.1 Each owner or operator of a steel tank UST system or a steel-fiberglass-reinforced plastic composite UST system with corrosion protection shall comply with the requirements of this section for as long as the UST system is used to store regulated substances.

5901.2 In complying with the requirements of this section, owners or operators shall follow a code of practice developed by a nationally recognized association or independent testing laboratory, as specified by the Director pursuant to §§5506.1 and 5506.2.

5901.3 Each corrosion protection system shall be operated and maintained to continuously provide corrosion protection to the metal components of those portions of the tank and piping system that routinely contain regulated substances and are in contact with the ground.

5901.4 Each UST system equipped with a cathodic protection system shall be inspected for proper operation by a qualified cathodic protection tester within six (6) months of installation and at least once every three (3) years thereafter.

5901.5 Cathodic protection testing shall be done in accordance with criteria set forth in a code of practice developed by a nationally recognized association, as specified by the Director.

5901.6 Each UST system with an impressed current cathodic protection system shall also be inspected every sixty (60) days to ensure the equipment is running properly.

- 5901.7 For each UST system using cathodic protection, the owner or operator shall maintain records of the operation of the cathodic protection in accordance with §5602, to demonstrate compliance with the performance standards set forth in this section. Cathodic protection records shall include the following:
- (a) The results of testing from the last two (2) inspections required in §5901.4 of this section; and
 - (b) The results of the last three (3) inspections required in §5901.6 of this section.

5902 REPAIR OR REPLACEMENT OF UST SYSTEMS

- 5902.1 Each owner or operator of an UST system shall ensure that repairs are made using the proper materials and techniques, and that repairs will prevent releases due to structural failure or corrosion as long as the UST or UST system is used to store regulated substances.
- 5902.2 In complying with the requirements of this section, owners or operators shall follow a code of practice developed by a nationally recognized association or independent testing laboratory, as specified by the Director.
- 5902.3 Repairs to fiberglass-reinforced plastic tanks may be made by the manufacturer's authorized representatives or in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory, as specified by the Director.
- 5902.4 Repairs to or replacement of internal tank linings may be made by the manufacturer's authorized representatives or in accordance with a code of practice developed by a nationally recognized association or an independent testing laboratory, as specified by the Director.
- 5902.5 Metal pipe sections and fittings that have released a regulated substance as a result of corrosion or other damage, or appear to have incurred sufficient corrosion or other damage to constitute a threat of release, shall be replaced in accordance with §5704.
- 5902.6 Fiberglass pipes and fittings that have released a regulated substance as a result of damage, or appear to have incurred sufficient damage to constitute a threat of a release shall be replaced in accordance with §5704 and the manufacturer's specifications.
- 5902.7 Flexible pipes that have released a regulated substance as a result of damage, or that appear to have incurred sufficient damage to constitute a threat of a release shall be replaced in accordance with §5704 and the manufacturer's specifications.
- 5902.8 Each repaired tank and piping shall be tested for tightness with a precision test method in accordance with §§6007 and 6013.3 of this Subtitle upon completion of the repair prior to being placed back in service, unless one (1) or more of the following actions have been taken:

(a) The repaired tank has been internally inspected in accordance with a code of practice developed by a nationally or locally recognized association or an independent testing laboratory, as specified by the Director; or

(b) The repaired portion of the UST system is monitored monthly for releases in accordance with a method specified in §§6008 through 6012 of this chapter; or

(c) Another test method is used that is determined by the Director to be no less protective of human health and the environment than the other provisions of this subsection.

5902.9 Within six (6) months following the repair of any cathodically protected UST system, the cathodic protection system shall be tested in accordance with the applicable provisions of §§5901.4 through 5901.6 of this Subtitle to ensure that it is operating properly.

5902.10 Each UST system owner or operator shall maintain records of each repair for the remaining operating life of the repaired UST.

5902.11 Each owner or operator shall ensure that each UST system is repaired by a certified UST System Technician.

5902.12 The owner or operator shall ensure that the certified UST System Technician completes the certification of compliance provided on the UST Notification form approved by the Director in accordance with §5600 of this Subtitle.

5902.13 A repair that involves removing and putting back in 100 % of the piping, excluding connectors, connected to a single underground tank is considered to be a replacement.

5903 COMPATIBILITY

5903.1 Each owner or operator shall use an UST system that is made of or lined with materials that are compatible with the substance stored in the UST system