7150.0300 RELEASE DETECTION.

Subpart 1. **General.** With the exception of emergency generator tanks that must comply with parts 7150.0300 to 7150.0340 by October 13, 2020, owners and operators of UST systems must provide a method, or combination of methods, of release detection for tanks, piping, dispensers, and submersible pumps that:

A. can detect a leak from any part of the tank and the connected underground piping, dispensers, and submersible pumps that routinely contains product;

B. is installed, calibrated, operated, and maintained according to the manufacturer's instructions, including routine maintenance and service checks for operability or running condition; and

C. meets the performance standards in part 7150.0330 or 7150.0340. The performance of release detection equipment, as certified by an independent testing laboratory or a nationally recognized association, must be documented with written specifications supplied by the equipment manufacturer or installer. Methods of release detection for tanks and piping must be capable of detecting the leak rate or quantity specified for that method in parts 7150.0330 and 7150.0340.

Subp. 2. [Repealed, 43 SR 1253]

Subp. 3. [Repealed, 32 SR 1751]

Subp. 4. [Repealed, 32 SR 1751]

Subp. 5. **Tanks.** Tanks must be monitored at least every 30 days for leaks using one of the following methods or combination of methods, except that hazardous substance tanks and tanks installed on or after December 22, 2007, must comply with item B:

A. automatic tank gauging according to part 7150.0330, subpart 5;

B. interstitial monitoring according to part 7150.0330, subpart 6;

C. statistical inventory reconciliation according to part 7150.0330, subpart 6a;

D. for tanks with capacities of 1,000 gallons or less, manual tank gauging according to part 7150.0330, subpart 3; or

E. another method of release detection according to part 7150.0330, subpart 7.

Subp. 6. **Piping.** Piping that routinely contains regulated substances must be monitored for releases using one of the methods or combination of methods under items A to C:

A. This item applies to pressure piping. Underground piping that conveys regulated substances under pressure must use one of the methods under this item, except that piping installed on or after December 22, 2007, must comply with subitem (3). Piping that is positioned lower than the top of the tank must be equipped with an antisiphon device and use one of the methods under this item:

(1) line leak detection conducted according to part 7150.0340, subpart 2, and annual line tightness testing conducted according to part 7150.0340, subpart 3, item A;

(2) line leak detection conducted according to part 7150.0340, subpart 2, and monthly line tightness testing conducted according to part 7150.0340, subpart 3, item B; or

(3) line leak detection conducted according to part 7150.0340, subpart 2, and interstitial monitoring conducted according to part 7150.0340, subpart 4.

B. This item applies to suction piping.

(1) Except as described in subitem (2), underground piping that conveys regulated substances under suction must be equipped with an antisiphon device if piping is positioned lower than the top of the tank and:

(a) have a line tightness test conducted at least every three years if it can detect a 0.1 gallon per hour leak rate at 50 pounds per square inch; or

(b) have monthly interstitial monitoring conducted according to part 7150.0340, subpart 4.

(2) No release detection is required for suction piping that is designed and constructed to meet the following standards:

(a) the below-grade piping operates at less than atmospheric pressure;

(b) the below-grade piping is sloped so that the entire contents of the pipe will drain back into the storage tank if the suction is released;

(c) only one check valve is included in each suction line; and

(d) the check valve is located directly below and as close as practical to the suction pump.

C. Another method of release detection may be used according to part 7150.0340, subpart 5.

Subp. 7. [Repealed, 43 SR 1253]

Statutory Authority: *MS s 116.49*

History: *16 SR 59; 32 SR 1751; 34 SR 1610; 43 SR 1253*

Published Electronically: *June 6, 2019*