

Subpart D -- Release Detection

[\[TOP\]](#)

§280.40 General requirements for all UST systems.

(a) Owners and operators of new and existing UST systems must provide a method, or combination of methods, of release detection that:

- (1) Can detect a release from any portion of the tank and the connected underground piping that routinely contains product;
- (2) Is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition; and
- (3) Meets the performance requirements in §280.43 or 280.44, with any performance claims and their manner of determination described in writing by the equipment manufacturer or installer. In addition, methods used after the date shown in the following table corresponding with the specified method except for methods permanently installed prior to that date, must be capable of detecting the leak rate or quantity specified for that method in the corresponding section of the rule (also shown in the table) with a probability of detection (Pd) of 0.95 and a probability of false alarm (Pfa) of 0.05.

			Date
after which	Pd/Pfa		
	Method	Section	must
be demonstrated			

Manual Tank Gauging.....	280.43 (b)	December 22, 1990.
Tank Tightness Testing.....	280.43 (c)	December 22, 1990.
Automatic Tank Gauging.....	280.43 (d)	December 22, 1990.
Automatic Line Leak Detectors.	280.44 (a)	September 22, 1991.
Line Tightness Testing.....	280.44 (b)	December 22, 1990.

(b) When a release detection method operated in accordance with the performance standards in §280.43 and §280.44 indicates a release may have occurred, owners and operators must notify the implementing agency in accordance with subpart E.

(c) Owners and operators of all UST systems must comply with the release detection requirements of this subpart by December 22 of the year listed in the following table:

Schedule for Phase-in of Release			
Detection		Year when release	
detection is required		(by December 22 of the	
year indicated)		Year system was installed	
1992	1993	1989	1990
			1991

Before 1965 or date unknown..	RD	P	
1965-69.....	.....	P/RD	
1970-74.....	.....	P	RD
1975-79.....	.....	P	
.....	RD		
1980-88.....	.....	P	
.....	.....	RD	

1 1

New tanks (after December 22) immediately upon installation.

P=Must begin release detection for all pressurized piping as defined in Sec. 280.41 (b) (1).

RD=Must begin release detection for tanks and suction piping in accordance with Sec. 280.41 (a), Sec. 280.41 (b) (2), and Sec. 280.42.

(d) Any existing UST system that cannot apply a method of release detection that complies with the requirements of this subpart must complete the closure procedures in subpart G by the date on which release detection is required for that UST system under paragraph (c) of this section.

[53 FR 37194, Sept. 23, 1988, as amended at 55 FR 17753, Apr. 27, 1990; 55 FR 23738, June 12, 1990; 56 FR 26, Jan. 2, 1991]