Monitoring Methods for Double-Walled Pressurized Piping and Under-Dispenser Containment (UDC)
Title 23, California Code of Regulations
Effective May 8, 2004

1 Title 23, CCR, section 2630(d) requires the installation of monitoring equipment such that it is capable of detecting a leak at the earliest possible opportunity. Therefore, an underground storage tank (UST) system where the UDC drains back to a low point in the product piping (generally the turbine pump) is not compliant unless a monitoring device is also installed in the UDC. This flow chart was created as a quick reference. Please refer to Title 23, CCR for specific regulatory language regarding other pressurized piping, suction piping, and UDC monitoring requirements. A copy of Title 23, CCR is available online at: www.swrcb.ca.gov.

2 USTs installed on or after July 1, 2004, which are continuously monitored using vacuum, pressure, or interstitial liquid level measurements, are not subject to the 0.1 gph annual piping test.

Option #1
Continuous monitoring for the UDC that:
- Shuts down the pump
- Stops the flow of product at the dispenser when a leak is detected.
§ 2636(f)(5)(A)

AND

Option #2
Continuous monitoring for both the pressurized piping and UDC that:
- Activates an audible and visual alarm
- Stops the flow of product at the dispenser when a leak is detected.
§ 2636(f)(1)

AND

Emergency Generator Option
Continuous monitoring for both the pressurized piping and UDC that:
- Activates an audible and visual alarm
- Stops the flow of product at the dispenser when a leak is detected.
§ 2636(f)(1)

Continuous monitoring for the pressurized piping located outside the UDC that is fail safe and shuts down the pump when a leak is detected.
§ 2636(f)(5)(B)

AND

A line leak detector that detects a 3.0 gallons per hour (gph) release from the primary containment. (A mechanical or electronic line leak detector may be used to fulfill this requirement.)
§ 2636(f)(2)

AND

Monitoring system is checked at least daily, by either remote electronic access or on-site visual inspections. A log of daily checks shall be available for local agency review upon request.
§ 2636(f)(6)

AND

A line leak detector that detects a 3.0 gallons per hour (gph) release from the primary containment. (A mechanical or electronic line leak detector may be used to fulfill this requirement.)
§ 2636(f)(2)

AND

An annual piping test that detects a release of 0.1 gph from the primary containment. (This can be performed by an electronic line leak detector that is third-party certified to perform a 0.1 gph test or by a California Licensed Tank Tester.)
§ 2636(f)(4)

AND

An annual piping test that detects a release of 0.1 gph from the primary containment. (This can be performed by an electronic line leak detector that is third-party certified to perform a 0.1 gph test or by a California Licensed Tank Tester.)
§ 2636(f)(4)