

Sump Sensors (SS)
(For Double-Wall Pressurized Piping Only)
(Little Leak 0.2 GPH/monthly)

Description of Release Detection: [280.44]

If sump sensors are being used as part of the interstitial monitoring of the secondary containment of piping, the sump sensor must be placed at the lowest part of the containment sump, flush to the bottom. The piping and containment sumps must be designed to allow for monitoring of the secondary containment of the piping, to include but not be limited to the tank top STP containment sumps, as well as under dispenser containment sumps, and piping transition sumps, depending on the design of the system. All containment sumps used for interstitial monitoring of piping must be maintained to prevent water intrusion. They must be liquid tight on the sides, bottom, and at all penetrations where electrical conduit and piping enter or exit the sump.

Sump sensors must be designed to provide an alarm, through the automatic tank gauge, when liquid is detected in any containment sump. On-site personnel should be trained to properly respond to all alarms.

Operating and Maintaining Sump Sensors:

- At least once a year, have a qualified contractor service the sump sensor components and conduct a function check according to the manufacturer's instructions. [280.44(a)]
- Use the owner's manual for operation and maintenance procedures. [280.40(a)(2)]
- Make sure employees who run, monitor, or maintain the Sump Sensor system know exactly what they have to do and to whom to report problems. [280.35]

Record Keeping:

- For at least a year, keep the record of the annual function check that demonstrates that the sump sensor is performing properly. [280.45(b)(1)]
- Keep a record, (log), of visually checking all SS proper vertical position sitting on the bottom of the sump and sump condition at least monthly. [280.35]
- Keep the monthly monitoring results for at least one year. At a minimum, a written log must be kept indicating monitoring results at least once every 30 days. Some monitoring equipment may provide printouts that can be used as records. [280.41(b)(1)(ii), 280.44(c)]
- Keep all records of calibration, maintenance, and repair of release detection equipment for at least one year. [280.45(c)]

If the Sump Sensor alarms or otherwise indicates a release has occurred, call the UST Management Division within 24 hours at (803) 898-0589.