



Kroger Company Fuel System Design Meets the
Federal Regulatory Requirements
of CFR 40, Part 280

- 280.20(a) & 280.43(g) U.L listed fiberglass double-wall brine filled fuel tanks with high/low level sensor connected to an electronic tank monitoring system which continually monitors the liquid status of the brine solution in the interstitial tank space. Any change in this sensor will trigger an alarm on the tank monitor.
- 280.20(b) U.L. 971 listed double-wall flexible primary product piping inside a crush resistant access pipe with all connections contained within a sump located at the tank and under each dispenser. Stage II vapor recovery and vent piping is UL listed single wall rigid fiberglass.
- 280.20(c) (i) Containment manholes with 5-gallon capacity on each fill riser and vapor recovery riser that will prevent the release of product to the environment when the transfer hose is detached from the fill /vapor adapter. Each manhole is located within a tank sump, providing secondary containment for all fill and vapor recovery riser pipes and spill containment manholes.
- 280.20(c) (ii) (B) (A) Alert the transfer operator when the tank is no more than 90 percent full by triggering a high-level alarm and automatically shut off flow into the tank when the tank is no more than 95 percent full.
- 280.43(g) Installation of a containment sump under each fuel dispenser containing a liquid sensor continuously monitoring the double wall product piping within the sump. Any leak in the primary product piping will be captured in the secondary piping and drain back to the tank sump where a liquid sensor will detect and trigger an alarm on the tank monitor.
- 280.44(a) Continuous electronic release detection system capable of detecting a release from any portion of the tank and underground piping system routinely containing product with automatic pressure line leak detectors that shut off the flow of product through the piping system, upon detection of a leak in the piping system at a rate of 3 gallons per hour or greater.

- 280.20(d) Installation, Drawings and Specifications are based on requirements included in the NFPA30A and PEI/RP 100-05, Recommended Practices for Installation of Underground Liquid Storage Systems
- 280.20(e) Certification of compliance for the installation.
 - 280.20(e) (1) Company Specifications require installers to carry current training certifications from the tank and/or piping manufacture.
 - 280.20(e) (2) Company Specifications require installers to be licensed or certified by the appropriate local and/or State agency having jurisdiction.
 - 280.20(e) (4) Company Specifications require installers to “comply with governing codes and regulations”.
 - 280.20(e) (5) Company Specifications require installers install materials in accordance with manufacturer’s instructions, which include completion of any manufacturer’s checklist provide for the product. Kroger also requires the installation to be internally inspected by a company trained project manager experienced in UST system installation.

Additional Equipment and Procedures

Kroger will provide the following additional equipment and procedures related to the design, construction, and operation of the fueling facility:

- Entire tank and piping system is constructed with non-corrosive materials with secondary containment of all submersible pump and tank monitoring equipment on each tank.
- Three methods of certification that the installation has been installed, tested, and inspected in accordance with applicable state and federal regulations.
- Operating procedures that require daily reconciliation of all product inventory including receipts and sales.
- Installation at a minimum distance greater than 200 feet from any private, public, or commercial water well.
- Testing of all systems in accordance with the manufacturer’s installation instructions prior to placing any system in service.
- Monthly and annual conformation that the release detection systems are functioning.