

August 2004



Underground Storage Tanks



Underground Storage Tanks (UST) are regulated by 40 Code of Federal Regulations (CFR) 280 and by 30 Texas Administrative Code (TAC) 334.

Fort Hood has implemented a requirement for Triple Protection to be provided in new UST installations. This is accomplished by installing a geo-liner in addition to double-wall tanks and piping. Placing the geo-liner will insure that, if a release occurs in the piping or tank area, the product can be captured in the geo-liner, providing protection to the environment by exceeding the minimum requirements set by federal and state environmental agencies.

Above Ground Storage Tanks

Check tanks for leaks, specifically looking for:

- drip marks
- discoloration of tanks
- puddles containing spilled or leaked material
- corrosion
- cracks
- localized dead vegetation

Check foundation for:

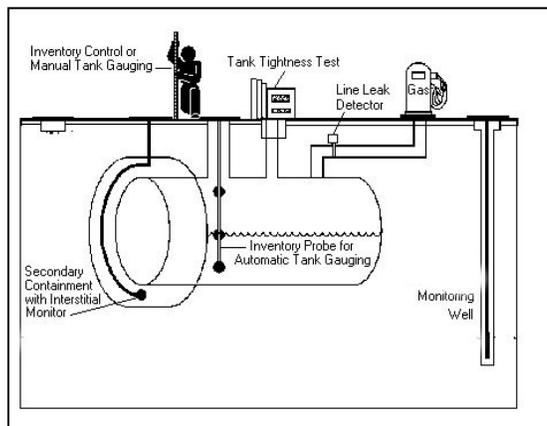
- Cracks
- settling
- gaps between tank and foundation
- damage caused by vegetation roots

Fort Hood has approximately 450 Above ground storage tanks (AST) located at various locations throughout installation to provide proper storage of new and used Petroleum, Oils & Lubricants (POL) products. All used product reclamation point (UPRP) tanks consist of double-wall, concrete/steel construction. These tanks are equipped with visual and audio overflow devices, based on if the tanks are manually or automatically filled. Fort Hood has over 4 million gallons of bulk fuel storage. Bulk fueling is issued at the two airfields and at the Directorate of Logistics (DOL) tank farm. AAFES retail stores also utilize ASTs at four of their seven locations.

ASTs range in size from 125 gallons to 610,000 gallons. Concrete/steel ASTs are seamless with no cold joints or heat transfer points on the sides or bottoms of the tank and are manufactured under strict quality controls in accordance with UL standards for protected tanks. ASTs meet all safety requirements for primary/secondary containment (110%), leak monitoring, spill containment, and overfill protection.



Inspections



Fort Hood implemented a tank Inspection program to follow the requirements of the Spill Prevention, Control & Countermeasures (SPCC) and the Facility Response Plan (FRP), as required in 40 CFR 112. Tanks are required to be inspected on a daily and weekly basis. Operators/users of the ASTs perform the inspection and document findings for correction.

Above-ground Storage Tanks (ASTs) at Fort Hood are visually inspected by personnel once per day to identify any leaks or spills and any problems or deficiencies with emergency response/safety equipment. A checklist is utilized to document weekly inspections.

Risk Best Management Practices:

- daily inspections by facility personnel
- routine maintenance by DPW personnel
- standard operating procedures for transfer and recirculating activities
- preventive measures such as valve lockouts at facilities
- visible placement of warning signs (e.g. "FLAMMABLE," "NO SMOKING w/in 50 FT")
- sufficient secondary containment for facilities (reducing the impact of a discharge on the surrounding environment)
- prompt removal of water from secondary containment structures



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