



Guild to Steel Tank institute's (STI) SP-001 Aboveground Storage Tank inspections

1.0 Goals

- 1.1 Quality Assurance
- 1.2 Risk Reduction
- 1.3 Improve life of the capital equipment (tanks)
- 1.4 Regulatory Requirements

2.0 Tanks

- 2.1 Portable: >55-gal. (metallic & Plastic totes, IBC, IM or UN portables)
- 2.2 Shop Fabricated API 12F, API 653 up to 20'-Diameter (up to 55,000-gal)
UL 142, 2085, (up to 75,000-gal)
- 2.3 Field Erected: Requires Name plate (max 50-ft height, 30-ft wide). <1/2 plate

3.0 Categories

- 3.1 ***Category 1: 2nd containment with release detection method.***
External inspection every 20-yr or at calculated corrosion rate, whichever is less.
- 3.2 ***Category 2: 2nd containment***
External inspection every 10-yr or at calculated corrosion rate, whichever is less.
Leak test 10 years.
Large tanks internal inspection 15-years.
- 3.3 ***Category 3: No safeguards***
External inspection every 5-yr or at calculated corrosion rate, whichever is less.
Leak test 5 years.

4.0 Inspections

- 4.1 UT's, Mag Flux, Visual, ASNT
- 4.2 Tank Supports
- 4.3 2nd Containment
- 4.4 Venting
- 4.5 Spill protection
- 4.6 Electrical/Bonding
- 4.7 Corrosion

5.0 EPA Spill Prevention Control and Countermeasures (SPCC)

Required for all sites by EPA with oil over 1,320-gallons. Requires update every 5-years. Some facilities can be self prepared, but must follow all rules. Professional engineering prepared plans allow for site exemptions.