

UNDERGROUND STORAGE TANKS:

Management, Upgrades, Removals, Cleanups

Commercial Storage Tanks and Line Testing

LCA provides testing and measurement services to determine whether commercial underground storage tank/lines are tight. The latest "precision" test techniques are used and conform to the requirements of National Fire Protection Association (NFPA) 329 and Title 40 Code of Federal Regulations Part 280.43. The test procedure considers the temperature coefficient of expansion of the liquid being measured and any temperature change, along with additional variable. This method can detect a loss of 0.05 gal (190 ml) per hour of stored product.

We can also examine commercial tank facilities to detect leaks in the tanks or associated piping. These examinations include, but are not necessarily limited to:

- Structural Integrity of Steel Tanks
- Tracer Gas Studies
- Lined Tanks
- Ultrasonic Testing
- Non-Metallic Tanks
- Other Non-Destructive Testing (NDT) Methods

In addition, we provide testing and measurement services for evaluating existing corrosion systems, analyzing corrosion failures, and designing corrosion protection systems. Corrosion is one of the major causes of failure of petroleum or chemical USTs and dry cleaning related storage tanks. LCA works with accredited national laboratories and trained professionals to analyze compatibility of products and tank materials. Factors that affect corrosion and thus may require analysis include:

- Solvent Temperature
- Electrolyte Acidity
- Temperature
- Surface Film
- Bacterial Action
- Soil Resistivity
- Moisture Level
- Soil Variations
- Adjacent Underground Metal
- Stray Electrical Currents

Leak Detection

LCA surveys and designs tank leak detection systems for tanks and lines. In-place leak detection can significantly reduce liabilities resulting from potential leaks and spills.

Tank Removal

LCA has an extensive background in petroleum and chemical UST management, regulations and removal. Management of underground storage tanks (USTs) includes operational compliance, removal and corrective action (if shown to be leaking). LCA maintains its status as a Texas Corrective Action Specialist firm and currently has three licensed Corrective Action Project Managers (CAPMs) on its staff.