

# Visual & Ultrasonic Inspection Services

## Dry Bulk Silos & Liquid Storage Tanks

# CST

# TecTank™ optiDome®

CST can proactively identify signs of corrosion or improper operating conditions to help extend the life of your tank. CST recommends having your tank inspected every 3-5 years. Whether you need a periodic inspection, review of a structural concern, or analysis of your tanks' service life; CST can fulfill your inspection requirements.

*Save Time & Money!*

- ☒ **Original manufacturer** – no reverse engineering required
- ☒ **Original fabricator** – OEM parts readily available
- ☒ **Original Product Experts** – no need to reinvent the wheel

**Bolting** – Inspect tank hardware for corrosion, delamination, pitting, cracking, or general hardware deterioration, as well as adequate bolt tightness and sealing of gasket.

**Coatings** – Inspect internal and external systems for corrosion, chipping, peeling, chalking, and determine expected service life.

**Roof** – Inspect topside for corrosion, settlement due to overloading from product or structure environment, damage caused by equipment or operations and fatigue. Inspect underside structure for structural integrity and hardware condition at connection points.

**Tank Appurtenances and Accessories** – Inspect nozzles, manways, level instrumentation, piping, venting and equipment connections for general serviceability.

**Tank Access Components** – Inspect ladders, platforms, walkways, stairways, handrails, guardrails, ladder cages and other safety climbing or access devices for safe condition and code compliance.

**Shell of Tank** – Inspect internal and external walls for corrosion, deformation and other structural damage or metal loss.

**Bottom** – Inspect internal topside for corrosion, wear, settling or other foundation issues.

**Foundation and Surrounding Area** – Inspect site to look for problems with foundation, site drainage to surrounding area and inspect anchoring hardware, saddles and other connection components.



**Hopper** – Inspect for damage, distortion, flow problems or other indications of upset operations.



» A SINGLE SOURCE SERVICE PROVIDER

World Recognized Leaders  
125 Years' Experience



## Ultrasonic Thickness Testing

Ultrasonic Thickness Testing (UTT) uses high frequency ultrasonic wave detection to measure material thickness and identify metal loss due to corrosion or erosion of steel.

CST's UTT allows us to identify deficiencies in remaining metal thickness that can be used to assess the expected remaining life of an asset, develop repair procedures or determine if the asset can be modified for other storage applications.

### Advantages of Ultrasonic Thickness Testing:

- > Provides instant and accurate results
- > Measures material thickness
- > Could be used with access to only one surface
- > Determines acceptance or rejection of a test object based on a reference code or standard

All field inspection data, engineering analysis and evaluation of work performed is translated into the proper report format and delivered in a timely manner. The findings of the inspection shall be documented by field notes, instrumentation readings and photographs.

**All inspections are performed to meet or exceed AWWA, NFPA, FM and API-12B specifications.**

### Why CST?

- > Single supplier, single point of contact worldwide
- > Company-wide commitment to safety
- > Trained and certified inspectors
- > Wide range of inspection services
- > Advanced testing methods and techniques
- > Turnkey project management
- > Engineering, manufacturing and technical support
- > Over 350,000 tanks and 18,000 covers installed worldwide – we know tanks!



>> Ultrasonic Thickness Testing - Carbon



>> Ultrasonic Thickness Testing - Aluminum

**Is your storage tank due for inspections? If so, contact CST, the largest tank and dome manufacturer in the world.**

**Call +1 844-44-TANKS or email us at [services@cstindustries.com](mailto:services@cstindustries.com).**



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VUI-SS-1710



**TecTank™**

**OptiDome®**