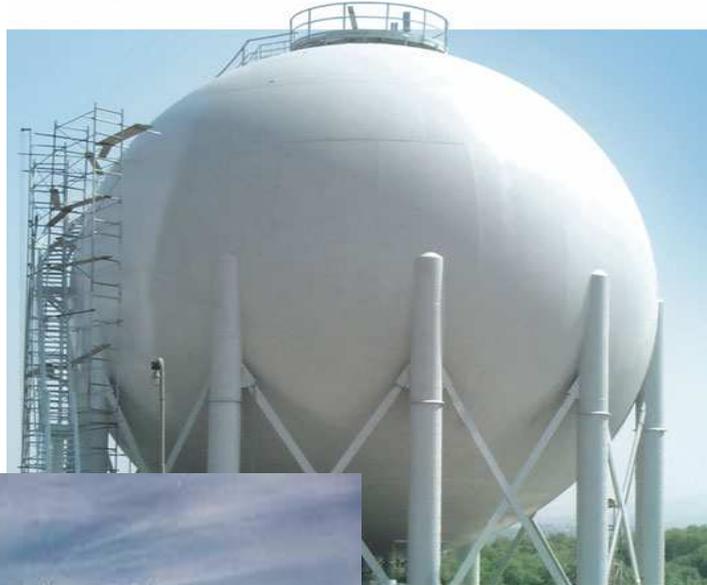


Storage Tank calibration

(Internal E.O.D.R)



Solution for tanks calibration based on laser technology

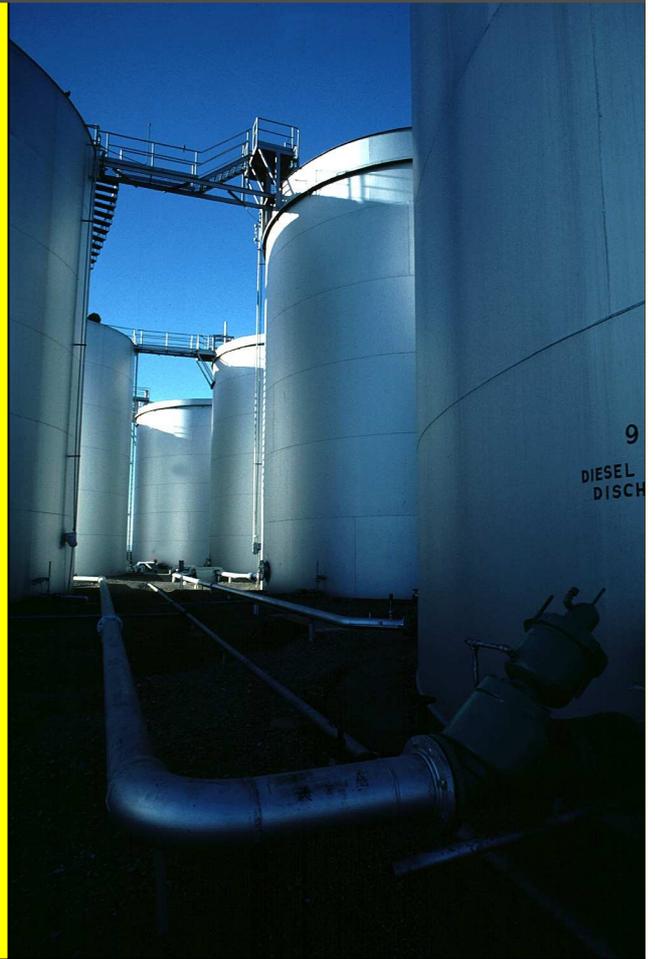
...where every drop matters

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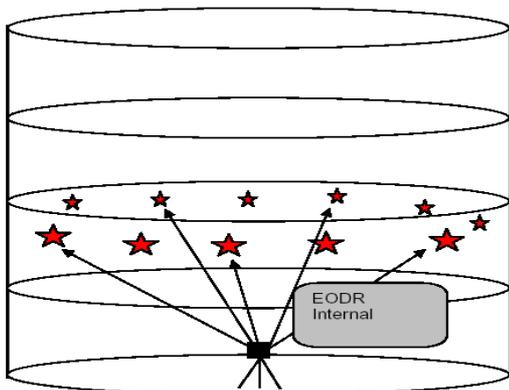
Calibration | Inspection | Certification

The process to determine the true volume of liquid in a storage tank is essential in the sale, purchase & process of oil, gas & chemicals

Imperceptible to the human eye, shells of the tanks undergo expansion & contraction due to hydrostatic liquid head pressure, working temperature in regular operation, reference dip height & may also due to tilt & settle. These conditions make big difference in the volume of the tank. Also any structural changes or repair made to the tank require re-calibration of a tank.



It is the world wide recognized, precise, safer & easier to perform &



UNITEAM has specialized in tanks calibration of various types by using Laser technology. This method is by far the most sophisticated and most advanced, compared, to all others. It is primarily an internal calibration, technology where tank profile is established.

Methods of calibrations

Calibration of vertical upright cylindrical tanks:
API MPMS Section 2.2D / ISO 7507-4

Calibration of horizontal upright cylindrical tanks:
API MPMS Section 2.2F / ISO 12917-2

Calibration of Barge tanks:
MPMS CH 2.7

Bottom calibration can be done without water by using 3D computer aided profile survey.

Specific corrections like temperature (Liquid & Shell), Deadwoods & Tilt are performed as per rule.

NOTE: All calibrations are performed by placing the equipment inside the tank.



Accuracy

EODR calibration techniques revealed significant differences in their respective capabilities. While strapping had a measurement uncertainty of $\pm 0.10\%$, the uncertainty of the EODR method was determined to be $\pm 0.05\%$. Therefore, its something certainly worth considering.

Results

Calibration Chart will be in Liters at every 10mm.

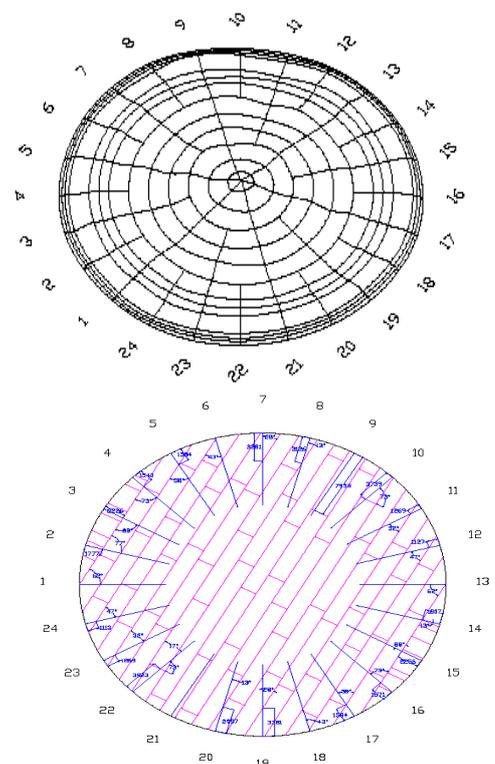
Volume will also be available at every 1% & 5 % for Horizontal tanks, if requested.

can be perform by 2 calibration engineers only in real time.

Additional Services

In addition of tanks calibration, Uniteam have extended their services to include “*Tank Settlement and Roundness Survey*” reports for vertical upright cylindrical tanks subject to additional charges.

This survey is critical for Decisions making about expensive tank repairs, particularly floor replacement and foundation repairs, may hinge on the measurements taken during a settlement survey.





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