



Storage Tanks

ENGINEERING, INSPECTION, &
INDUSTRIAL SERVICES



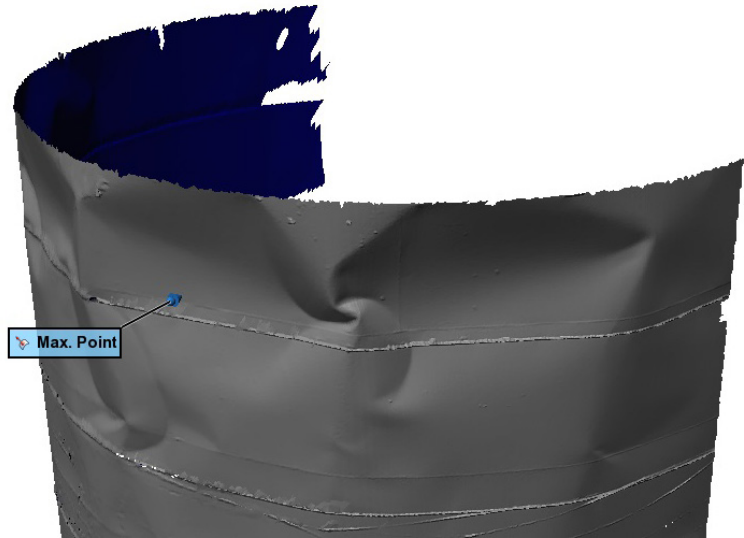
A HIGHER LEVEL
OF RELIABILITY®

Storage Tank Programs

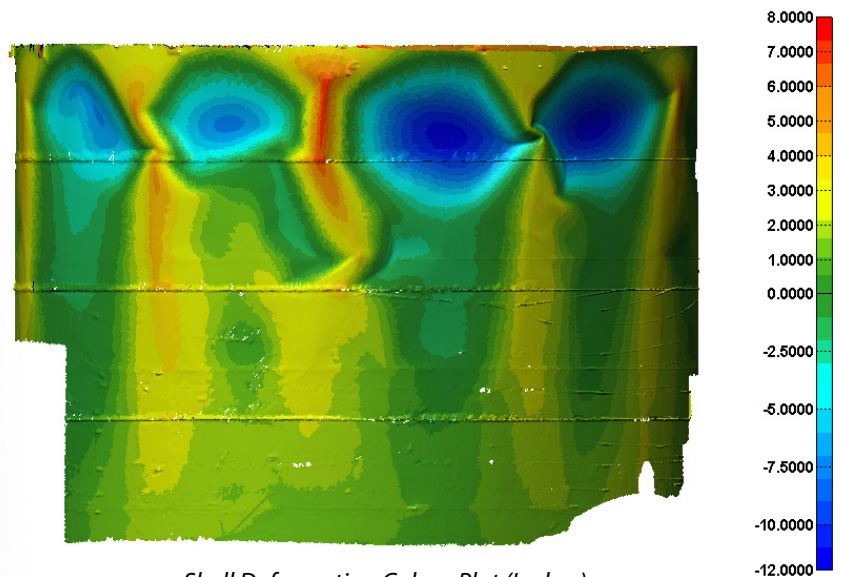
COMPLIANCE ▪ EFFICIENCY ▪ QUALITY ▪ EXPERTISE

CORE TANK SERVICES

- API 653 Inspection
- Magnetic Flux Leakage (MFL) Floor Scanning and UT Prove-Up
- Settlement Surveys
- Ultrasonic Tank Crawler
- Leak Testing (Vacuum Box)
- Non-Destructive Examination (Advanced & Conventional)
- Laser Scanning
 - ◊ Volumetric Calibration (Tank Strapping)
 - ◊ Dimensioning of Deformations and Structures
 - ◊ Containment Dike Analysis
 - ◊ CAD Drawing Creation
 - ◊ Detailed 3D Digital Models
- Engineering (New Design, FEA, Welding, Fitness for Service, Materials & Structural)



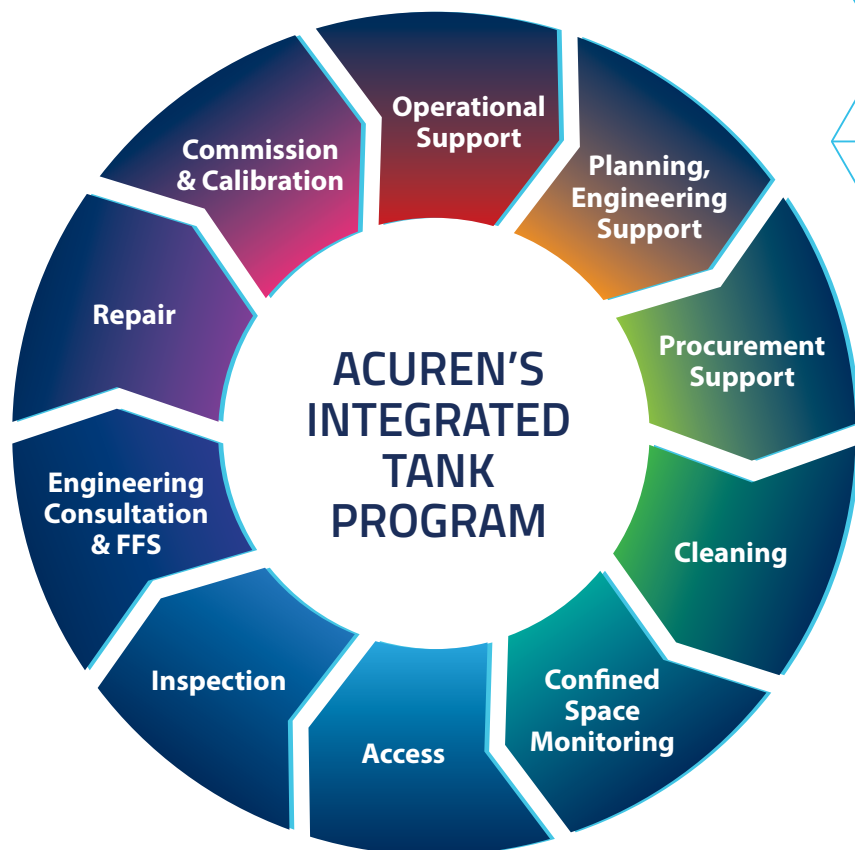
3D Laser Measurement of Tank Shell Deformations



Shell Deformation Colour Plot (Inches)

Remote Access Technology provides safe and efficient access to areas that would typically require scaffolding. Rope Access has minimal set-up time. Technicians can quickly be put into position to evaluate, perform repair work, and restore the facility to production at a substantial savings of time and cost.

Safety, Quality, and Productivity



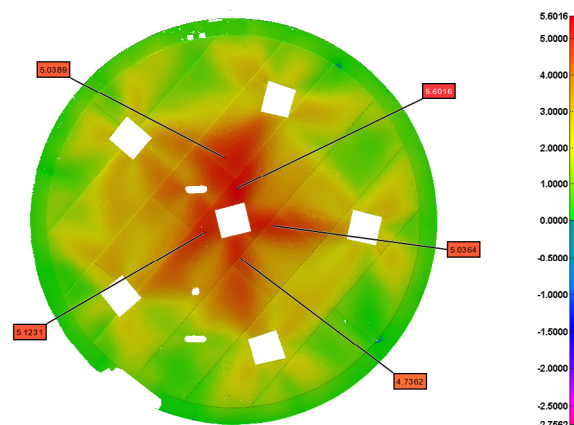
Local Crews
Proven Cost Savings
Integrated Program
90+ In-House Engineers
100+ API Inspectors
Rope Access Specialists
Fast Report Turnaround
Multi-Certified Inspectors

TANK SUPPORT SERVICES

- Engineering Services
 - Fitness-for-Service (API 579) and Hydrotest Exemption
 - Stress Calculations and Finite Element Analysis (FEA)
 - Welding Engineering, PQR Development and Testing
 - Risk Based Inspection (RBI) System Consulting
 - Tank and Containment Design and Repair Consulting
 - Failure Analysis
- Industrial Services
 - Insulation
 - Scaffolding
 - Confined Space Monitoring and Rescue
 - Painting/Coating
 - Welding
 - Tank Repairs
- Remote Access Technology
 - Inspections, NDE, and Industrial Services from Ropes
- Certified Mobile Tank Inspections
- Mechanical, Chemical, and Metallurgical Testing
- QA/QC New Tank Construction Project Surveillance on behalf of the Owner or the Contractor

ADDITIONAL INTEGRITY SERVICES

- Chief Inspector / Owner Inspector
- Pressure Equipment Integrity Assessments
- Integrity Data Management
- Non-Conformance Disposition Tracking
- CWB Welding Inspection
- NACE Coating Inspection
- Corrosion Monitoring



Tank Bottom Elevation Colour Plot (Inches)

UPSTREAM PETROLEUM TANK INSPECTIONS

API 653 inspections for compliance to local jurisdictions.

DOWNSTREAM & MIDSTREAM TANK INSPECTIONS

API 653 inspections for compliance to Federal and Provincial fire codes.
PTMAA August 31, 2017 deadline in Alberta.



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BEYOND INSPECTION