

PIPELINE INTEGRITY

INSPECTION SERVICES

Our pipeline integrity specialists and NDT technicians provide conventional and advanced non-destructive testing alongside in-ditch integrity assessments providing quality information you can use to make quick, trusted remediation decisions.

LET OUR EXPERT TEAM HELP YOUR PIPELINE INTEGRITY MANAGEMENT PROGRAM REACH ITS FULL POTENTIAL.

COMPREHENSIVE PIPELINE INTEGRITY MANAGEMENT

- ✓ Seam Weld Inspection- Total Focusing Method
- ✓ Automated Phased Array SCC Crack Mapping
- ✓ Corrosion Analysis
- ✓ 3D Laser Profilometry-Mechanical Damage Modeling
- ✓ Mega Rule Support
- ✓ Phased Array Internal Corrosion Mapping
- ✓ PLI Rehab Inspection Support
- ✓ Positive Material Identification
- ✓ Magnetic Particle Inspection

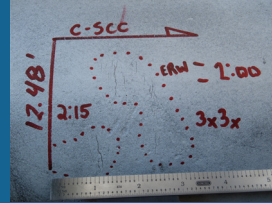


For a **SAFE, RELIABLE, & COMPLIANT TOMORROW**



TRADITIONAL & ADVANCED NDE

- ✓ In-Ditch Anomaly Evaluation/ILI Validation
- ✓ External Corrosion Evaluation
- ✓ Magnetic Particle Inspection
- ✓ Dent & Mechanical Damage Measurement
- ✓ Seam Weld Inspection System (SWIS)™
- ✓ Stress Corrosion Crack Mapping
- ✓ Internal Corrosion Mapping
- ✓ External Corrosion & Dents



CRACK INSPECTION

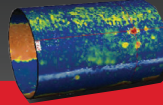


- Precision Crack Depth Sizing of SCC & Characterization of Seam Weld Hook Cracks
- ILI Crack Tool Validation

By developing new approaches to the inspection process, improving defect characterization, and offering options to enhance productivity and cost reduction, we remain the leader of crack defect and engineering assessments.

Our operations strategy involves leveraging cutting edge NDE Technology and analysis software, with proprietary applications, procedures and equipment designs.

ADVANCED ULTRASONICS



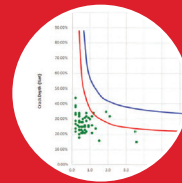
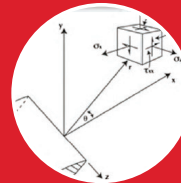
- Crack and Seam Weld Anomaly Characterization
- ILI Crack Tool Validation
- Imaging & Analysis

The newest emerging ultrasonic technology is the Full Matrix Capture/Total Focusing Method (FMC/TFM). This technology offers markedly better functionality over conventional Phased Array views.

Improvements are realized by identifying the exact and full inspection area, extracting maximum data points within the inspections, preferred Ultrasonic signal resolution, ability to image surfaces which are not preferential to the direction of beam propagation, improved spatial resolution and the unique ability to look at features directly under the probe in the near field.

ASSET INTEGRITY PROFESSIONAL ENGINEERING SERVICES

- Engineering Stress, Strain & Fracture Mechanics Analyses
- Finite Element Analysis of Cracks, Dents, & Mechanical Damage
- Cracking, Dent, Mechanical Damage, & Corrosion Management Strategies
- Fatigue Analysis & Remaining Life Assessments
- Fitness-for-Service & Pipeline Repair Evaluations
- Pipeline Performance Demonstration Through Full Scale Testing: Burst & Fatigue Testing
- Hydrostatic Testing, Development & Support
- Pipeline Integrity Management Program Review & Implementation
- Compliance & Regulatory Support
- Pipeline Threat Analysis & Interaction of Degradation Mechanisms & Failure Modes
- Training Courses on Pipeline Structural Integrity, Repairs & Compliance

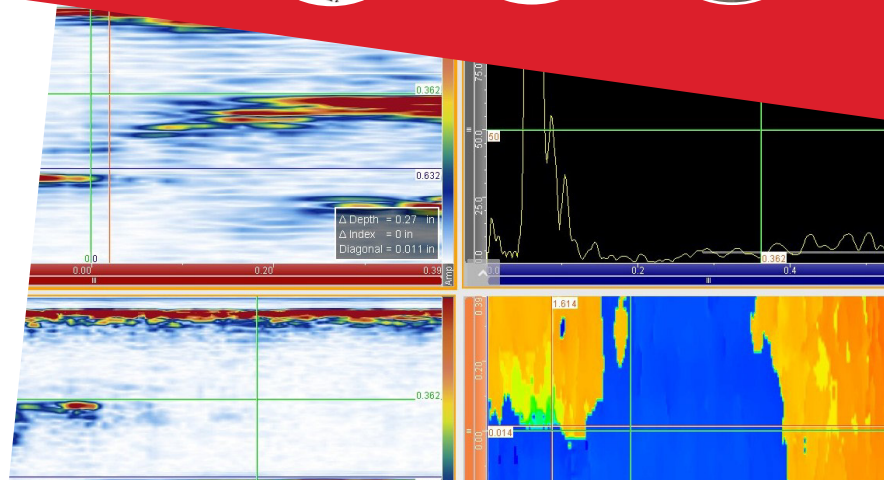


ABOUT US

PROtect is a leading national provider of safety, reliability, and compliance services serving a diverse array of industries. We specialize in protecting your company from unnecessary risks related to employee injury, property damage, liability, unplanned downtime, and regulatory non-compliance.

OTHER SERVICES

- ✓ Advanced NDT
- ✓ Conventional NDT
- ✓ Environmental
- ✓ Engineering Support
- ✓ Heat Treatment and Stress Relief
- ✓ Industrial Hygiene
- ✓ Infrared Testing
- ✓ LDAR
- ✓ Materials Testing
- ✓ Mechanical Integrity
- ✓ Pipeline Integrity
- ✓ Rope Access
- ✓ Safety



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