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**ADVANCED NDT**  
**WELDING INSPECTION**  
**CONVENTIONAL NDT**

**PIPELINE INTEGRITY**  
**NDT AUDITING**  
**AUT DATA REVIEW**



**NDT Group Inc. (NGI)** provides **Nondestructive Testing, Auditing, and Inspection** services to the industrial sector in Canada and across the world. Our company offers a combination of basic and innovative NDT Technologies, distinguishing itself as first-class provider.

## **RELIABILITY & INTEGRITY**

## **INNOVATIVE NDT SOLUTIONS**

**NGI** delivers non-destructive testing and inspection services in a safe, experienced, and ethical manner. We are committed to continuous education, substantial training, and skilled performance in our quality control and safety protocols

We are a Nondestructive Testing (**NDT**) and Inspection services agency based in Ontario, Canada. Our inspectors & technicians have many combined years of experience in the examination of oil & gas, pipelines, petrochemical and refinery installations, pressure vessels, piping and storage tanks. Our testing and inspection services are available for projects worldwide.



**"OUR SUCCESS IS DEFINED BY YOUR CHALLENGE"**

# PIPELINE INTEGRITY DEFECT ASSESSMENT

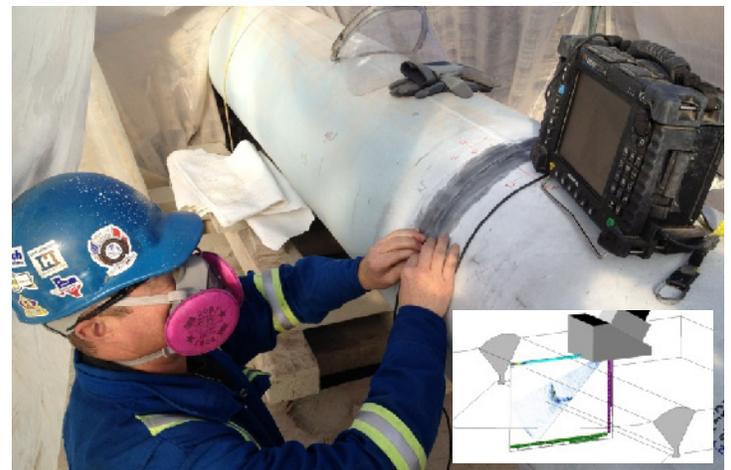
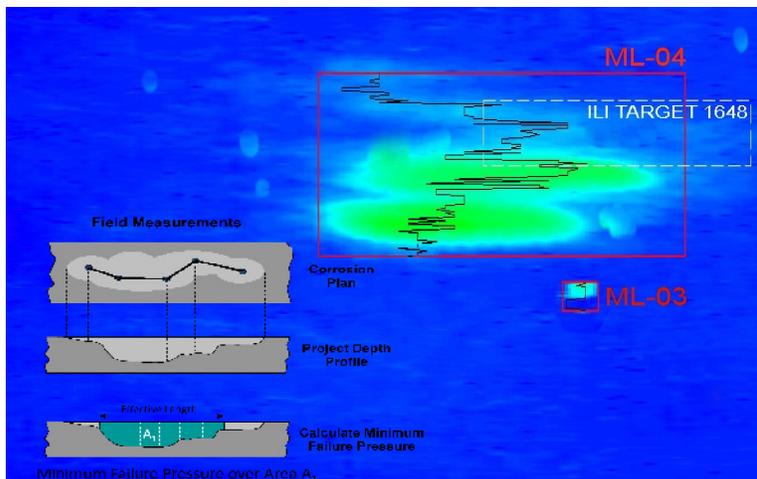


**Pipelines** are a critical part of our civil infrastructure. Safety and reliability are of the utmost importance. The potential for safety and environmental risks can be minimized through routine In-Line Inspections using Smart Tool Technologies. Problems identified using this technology need to be validated and assessed in the form of **Pipeline Integrity Assessment** digs.

**NGI** are leaders in Pipeline Integrity Assessments, providing a first-class service with unparalleled experience and expertise.

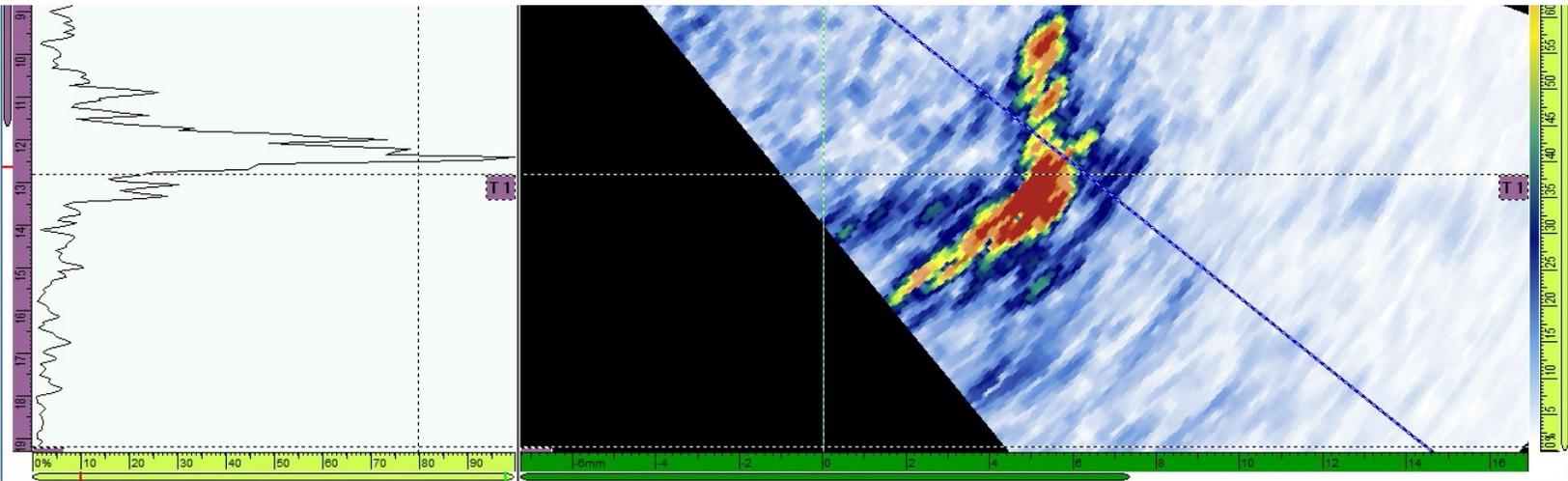
## PIPELINE INTEGRITY SERVICES:

- Advanced crack sizing using PA, Tofd, Tip Diffraction, High Angle LW
- Corrosion Mapping - Internal/External & Manufacturing Metal-Loss
- Automated UT Services (AUT)
- CWB Sleeve Certified Sleeve Inspections
- Coating Assessments and Inspections
- DSAW/FW/ERW Seam Evaluation and Flaw Characterization
- Visual, Magnetic Particle, Ultrasonic & Hardness Testing
- Full Defect Assessment and Mapping on ID/OD - Deformations, Mechanical Damage, Cracking, SCC, Long Seam Flaws, Arc Burns & Manufacturing related anomalies
- CE Samples and Grind Repairs
- Correlation and interpretation of ILI Targets to as found conditions



# ADVANCED UT SERVICES

## PHASED ARRAY & TOFD



**Advanced UT** Technologies provide an innovative solution to many unique and difficult geometries and applications. Services range from ASME code-compliant weld examinations to the detection of in-service defects in of Piping, Forgings, Tanks and Pressure Vessels. Phased Array, Time-of-Flight Diffraction and other Advanced UT Techniques are valuable tools that have great benefit. Our specialty is complex geometries, Advanced PA & Tofd techniques.

### ADVANCED UT – PA & TOFD:

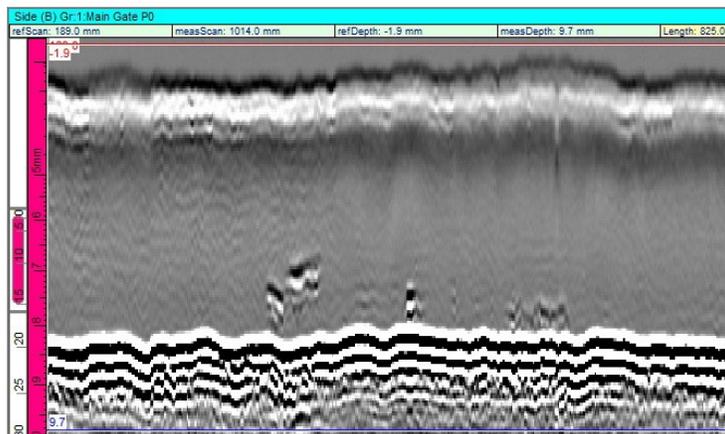
- ASME Code Compliant PA & Tofd
- Advanced PA of Complex Geometries
- Advanced UT Techniques
- Crack Detection & Sizing
- High Angle LW
- Creeping Wave
- Stainless Steel and Austenitic Welds
- Dissimilar Metal Weld (DMW)
- Tank and Vessel Wall Climber
- High Temperature TOFD
- High Temperature Hydrogen Attack (HTHA)

### DATA ANALYSIS:

- ProScan-AUT Solutions
- Tomoview-Olympus
- TD Super-View
- Ultravision-Zetec
- GE-Weld Star

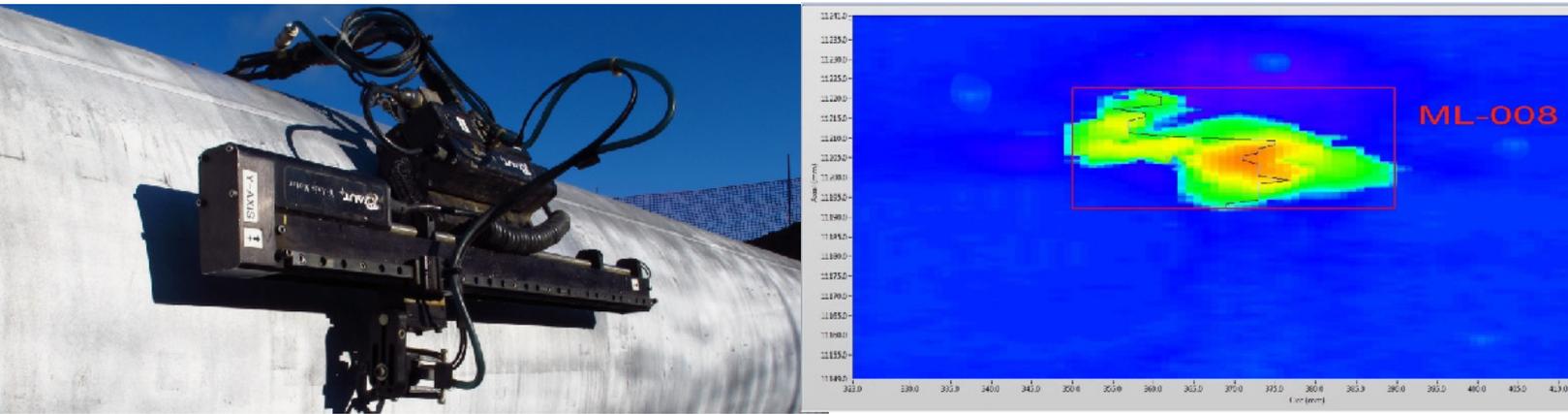


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TECHNOLOGY



# ADVANCED UT SERVICES

## AUTOMATED UT – CORROSION MAPPING

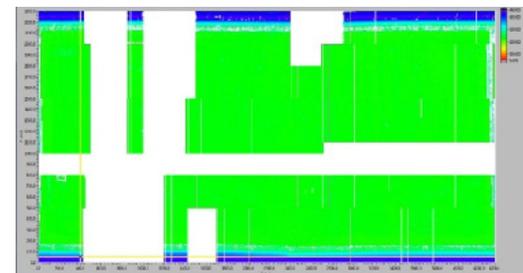
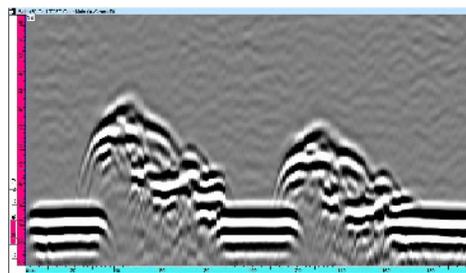
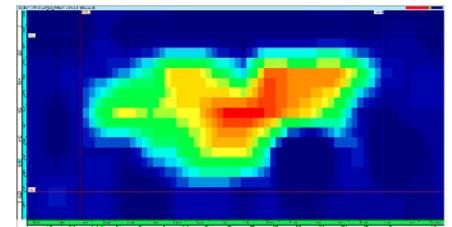


**Automated UT** Corrosion mapping can be a valuable corrosion assessment tool providing an image (C-Scan) of the affected area in conjunction with Burst Pressure Calculations (B31.G, MB31G and Effective Area Assessment).

**AUT** in Lieu of Internal Inspections can provide significant cost savings by performing condition assessment safely from the outside even while the equipment is in service. Unnecessary vessel entries can be avoided along with associated hazards and inconveniences of shutting down equipment. This service is valuable for preventive maintenance and is an effective means of detecting problems before shutdown.

### AUTOMATED UT – AUT:

- Detection and Monitoring of Hydrogen Blistering
- Internal and External Corrosion Mapping
- Mapping of Laminations and
- Corrosion Mapping (Automated UT)
- Burst Pressure Calculations for FFS
- 30"/sec Scanning Capabilities
- High Temperature **AUT** (700°F)
- HIC/SOHIC and Welds
- Multi-Channel UT
- Shear Wave AUT



# VISUAL INSPECTION

## WELDING INSPECTION & QA/QC



**Visual inspection (VT)** relies upon the detection of surface imperfections using the eye. Normally applied without the use of any additional equipment, **VT** can be improved by using aids such as a magnifying glass to improve its effectiveness and scope. **NGI** provides the following services with this method:



### VISUAL INSPECTION – VT:

- API 510, 570 and 653 Inspections
- Welding Inspection & Parameters
- Structural Steel Inspection
- In-Service Inspections
- NDT Vendor Auditing
- Vendor Surveillance
- Pipeline Inspection
- Coating Inspection
- QA/QC Services



# NONDESTRUCTIVE TESTING

## CONVENTIONAL NDT SERVICES



**Nondestructive Testing (NDT)** services directly contribute to the safety of society. Quality assurance and integrity of critical equipment and facilities are instrumental in the protection of the environment, public health, and life itself. Failure modes result in negative social, financial, and environmental, implications.

The following are the **NDT** methods that we currently provide to evaluate materials, components, and welds:

### CONVENTIONAL NDT - METHODS:

- Ultrasonic Testing (UT) - *Specialists in Nickel & Stainless Steel Alloys*
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)
- Eddy Current Testing (ET)
- Radiography (RT) Film Review
- NDT Consulting & Auditing



## SAFETY & ENVIRONMENT



**NDT Group Inc.** dedicated to maintaining a high standard of Health, Safety and Environmental performance. We believe that all work related injuries and illnesses are preventable. We are committed to maintaining occupational health and safety into all our business decisions to ensure the highest regard to safety of our workforce and the public. Our goal is to lead the industry in minimizing the impact of our NDT activities and promote a service line that has minimal effects on the environment.



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