



ADVANCED NDT
AND CONSULTING

SERVICE MENU

Find the service that meets your costs and provides the most comprehensive inspection for your needs.



We are here to service all
your inspection needs!



INSPECTION APPETIZERS

Lower cost conventional methods

RADIOGRAPHIC TESTING

Uses radiation to move energy through a test object. Photons are captured on the other side and show differences in density where material is inconsistent. **Pairs well with: Weld inspection, coating and material thickness, works well on most materials, full volumetric assessment.**

ULTRASONIC TESTING (UT)

Sound waves are introduced into a test object, inconsistencies will reflect sound back abnormally, allowing sizing and characterizing discontinuities. **Pairs well with: Weld inspection, coating and material thickness, works well on most materials, full volumetric assessment.**

VISUAL TESTING (VT)

Known as the foundation of all non-destructive testing, visual testing is performed when any NDT method is utilized. **Pairs well with: Corrosion, dent, and weld assessments.**

MAGNETIC PARTICLE TESTING (MT)

Also available in Fluorescent or visible, Magnetic Particle Testing employs magnetic fields which when disrupted show visible indications. Can see surface and subsurface discontinuities. **Pairs well with: Crack Investigation In the body or weld that are surface or subsurface.**

LIQUID PENETRANT TESTING (PT)

Fluorescent or visible, Liquid Penetrant Testing is highly sensitive to discontinuities that are open to the surface. **Pairs well with: Crack investigation in the body or welds that are open to the visible surface, non-magnetic surfaces.**

EDDY CURRENT TESTING (ET)

Introduces electric currents and/or magnetic fields into a test piece, discontinuities that disrupt these fields or currents provide measurable responses. **Pairs well with: sec investigation, Coating and Material thickness, and tubing inspections.**

MECHANICAL INTEGRITY

Catering to specific needs and requirements

When API Certifications are required, we have you covered with several multi-certified technicians.

API CERTIFIED TECHNICIANS

API 510 - Pressure Vessel Inspector
API 570 - Piping Inspector
API 653 - Aboveground Storage Tank Inspector
API 1169 - Pipeline Construction Inspector

MATERIALS TESTING

Optical Emissions Spectroscopy (OES)	Breakdown Spectroscopy (LIBS)
Positive Material Identification (PMI)	Frontics
Laser-Induced	Ferrite Testing
	Hardness Testing

API ULTRASONIC CERTIFIED TECHNICIANS

API QUTE-TM - Thickness Measurement
API QUTE - Detection
API QUSE - Flaw Sizing
API QUPA - Phased Array
API QUSEPA - Phased Array Sizing

AWS Certified Welding Inspectors
Client Field Representatives (CFR)
NACE Coating Inspectors

ADVANCED SERVICES

When conventional NDT doesn't fill you up

AUTOMATED UT (AUT)

Takes conventional UT and uses mechanical assistance to make the process faster and more efficient. Encoders moving on separate axes are used to provide tangible data. **Pairs Well With: Internal Corrosion over a large area, scanning elbows, and long areas of weld assessment.**

FULL MATRIC CAPTURE / TOTAL FOCUSING METHOD (FMC/TFM)

Full Matrix Capture (FMC) is a data acquisition strategy, FMC allows for the capture of A-Scan signals from every transmit-recvie combination for a given ultrasonic phased array transducer. TFM takes the waveform data from the FMC process and arranges the data in the image grid, or zone. **Pairs Well With: Volumetric weld Assessment.**

PHASED ARRAY UT (PAUT)

Utilizes multi-element (array) probes for increased capabilities over conventional ultrasonics. Beam manipulation allows for a range of inspection angles without having to change wedges or manipulate current setup. **Pairs well with: Volumetric weld assessment.**

3D LASER SCANNING

3D Laser scanning is a fast, reliable way to provide accurate anomaly assessment. Points are collected along the X, Y, and Z planes to create a 3D rendering. **Pairs well with: Large areas of external corrosion, dents, and oddly shaped test objects.**

EDUCATION

Knowledge is power

FOR NDE PROFESSIONALS & ENGINEERS

Introduction to NDT :

Developed to help engineers choose the right assessment for their needs.

NDT Math

UT Level I and II

UT Thickness

PAUT I and II

TFM/FMC

RT Level I and II

Radiation Safety

RT Film Interpretation

PT Level I and II

MT Level I and II

VT Level I and II

ET Level I and II

LEVEL III SERVICES

Level up with a Level III

Development of Written Practices • Certification and Training
Audit Representation



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