Inspection Appetizers

Lower cost conventional methods

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*

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 weld that are open to the visible surface, non-magnetic surfaces*

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*

Eddy Current Testing (ET)

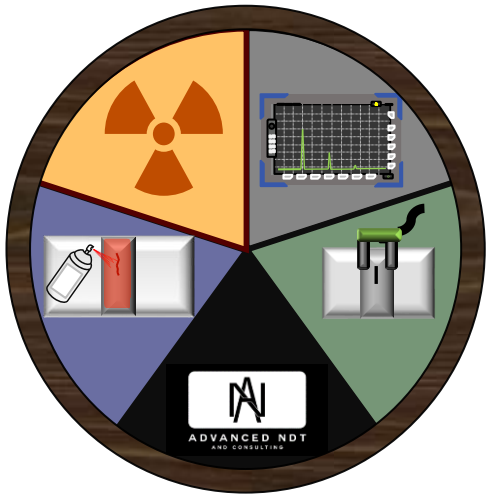
Introduces electric currents and/or magnetic fields into a test piece, discontinuities that disrupt these fields or currents provide measurable responses. **Pairs well with:** *SCC investigation, Coating and material thickness, and tubing inspections*

Radiographic Testing (RT)

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.*



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We are here to service all your inspection needs!!!

Service Menu

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

ADVANCED NDT
AND CONSULTING

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Office: 918.500.1509
www.advancedndtandconsulting.com

ADVANCED NDT
AND CONSULTING

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

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

Materials Testing

Optical Emission Spectroscopy (OES)

Positive Material Identification (PMI)

Laser-Induced Breakdown Spectroscopy (LIBS)

Frontics

Ferrite Testing

Hardness Testing

Advanced Services

When conventional NDT doesn't fill you up

Automated UT (AUT)

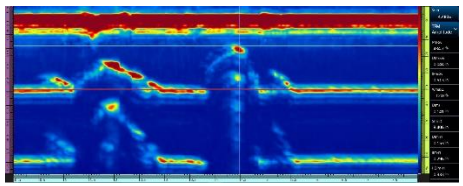
takes conventional UT and uses mechanical assistance to make the process faster and more efficient. Encoders moving on separate axis are used to provide tangible data. **Pairs Well With:** *Internal Corrosion over a large area, scanning elbows, and long areas of weld assessment*

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*

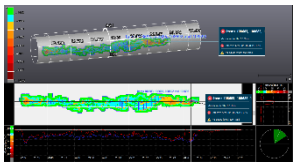
Full Matrix Capture/Total Focusing Method (FMC/TFM)

Full Matrix Capture (FMC) is a data acquisition strategy, FMC allows for the capture of A-Scan signals from every transmit-receive 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*



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 and Engineers

Introduction to NDT
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

Developed to help engineers choose the right assessments for their needs

Level III Services

Level up with a Level III

Development of written practices

Certification and Training

Audit Representation