



PHASED ARRAY - ULTRASONIC TESTING



WELD QUALITY & CRACK DETECTION

Phased Array Ultrasonic Testing (PAUT) uses multi-element transducers to create and transmit ultrasonic beam fronts at a variety of angles simultaneously to identify and size defects across a variety of materials.



INCREASES
SAFETY



MINIMIZES
INSPECTION TIME



INCREASES
ACCURACY



KEY ADVANTAGES:

- Non-intrusive
- Doesn't affect plant equipment
- Faster inspection times
- Ability to size defect height, depth and length
- Higher sensitivity to planar flaws
- Better accuracy for flaw location
- Ability to electronically focus at specific depths
- Digital record that can be shared via email or network
- No barricades or lost production during inspection
- Eliminates all hazards associated with radiation

PAUT is used all over the petrochemical industry as an alternative to radiography in the following codes:

- ASME B31.1
- ASME Section VIII
- ASME B31.3
- API 650

QUALIFICATION TESTING

Each Amerapex certified technician must pass a practical examination that includes four test specimens. All Amerapex technicians also hold current QUPA certifications from the American Petroleum Institute (API).

WE ARE AMERAPEX

Amerapex's mission is the advancement of our clients. Through innovation, technology, integrated engineering and industrial solutions.

Amerapex brings the highest quality and optimal cost to our clients.

MISSION STATEMENT

EXPERTS IN INTEGRATED SOLUTIONS



ASSET MANAGEMENT

- API Inspections
- Corrosion Under Insulation (CUI)
- Tubing Inspection
 - Eddy Current Testing (ECT)
 - Pulsed Eddy Current (PEC)
- Electromagnetic Acoustic Transducer (EMAT)
- Heat Exchanger Integrated Services (HEXIS)
- High-Speed Vertical Tube Inspection (HVTI)



GREEN ENERGY SOLUTIONS

- Windmill Blade Inspection
 - Phased Array
 - Rope Access
- Bio-diesel Technology
- Magnetic Particle
- Phased Array
- Radiography
 - Computed Radiography (CR)
 - Digital Radiography (DR)
- Rope Access
- Positive Material Identification (PMI)
- Storage Tank Inspection
- Turnaround Inspections



SEISMIC SERVICES

- Geological Services
- Data Acquisition
- Field Processing



INDUSTRIAL SOLUTIONS

- Hydroblasting/Hydrocutting
- Mechanical Services
 - Piping Fabrication & Repairs
 - Blinding & Isolation
 - Structural & Civil
 - Pipeline/Station Services
 - Tank & Vessel Services
- Tank & Vessel Cleaning
- Industrial Coatings
- Soil Remediation
- Confined Space Rescue (CSR)
- Pipeline Construction,
- Maintenance & Integrity



ENGINEERING SERVICES

- Civil/Structural Engineering.
- Electrical Engineering
- Information Technology
- Mechanical Engineering
- Piping Engineering
- Process Engineering
- Procurement
- Profitability Applications
- Program & Project Management
- Industrial Water Treatment
- FPSO Commissioning/Decommissioning
- Instrumentation & Control Engineering
- FPSO Manufacturing Inspection
- Drops Inspection
- Aluminum & Duplex Welding



MECHANICAL INTEGRITY

- Asset Integrity
- Asset Management Software Support
- CML/Inspection Optimization
- Corrosion Engineering
- Corrosion Study & DMR
- Failure Mode Effects Analysis
- Fitness for Service
- Integrity Operating Windows
- Key Performance Indicators (KPIs)
- Maintenance & Reliability
- Mature & Late Life Asset Management
- Performance Standards
- Risk Assessments
- Risk Based Inspection (RBI)
- Technical Due Diligence



ENVIRONMENTAL SOLUTIONS

- Demolition & Restoration
- Project Management & Consulting
- Remediation Services
- Waste Management



WATER TREATMENT SOLUTIONS

- Produced Water
- Process Water
- Cooling Water
- Wastewater
- Flowback
- Pipeline Remediation
- Slop Water

