



# CORROSION UNDER INSULATION (CUI)



## TURNKEY EVALUATION PROGRAM

Amerapex offers a comprehensive program to detect CUI using a variety of NDT technologies and detailed API visual inspections. Damage as a result of CUI can be costly and can lead to unwanted downtime. Put your trust in CUI experts. **Put your trust in Amerapex.**



MINIMIZE  
DOWNTIME



MINIMIZES  
RISKS



INCREASE  
RELIABILITY



## CUI PROGRAM METHODOLOGY:

- 1. DATA COLLECTION & VALIDATION**  
Identify all CUI susceptible areas, collect P&ID/inspection isometrics.
- 2. VISUAL & TEMPERATURE SURVEY**  
This survey is used to identify the correct scope of the CUI inspection and identify problem areas.
- 3. MOISTURE DETECTION**  
Using Neutron Backscatter, this survey identifies high moisture areas on piping and equipment.
- 4. REAL TIME RADIOGRAPHY**  
Used to inspect high-moisture and problem areas to determine if insulation removal is necessary.
- 5. GUIDED WAVE ULTRASONICS**  
This additional screening tool is primarily used when space limitations restrict access by other NDT methods.

# 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

