Asset Integrity Management
BOILER, PRESSURE VESSEL, PIPING & TANK SUPPORT SERVICES

A HIGHER LEVEL OF RELIABILITY®
ACUREN
Life Cycle Management

ASSET INTEGRITY SERVICES
Acuren employees work to ensure integrity and quality at every stage of the asset life cycle including construction, commissioning, in-service, turnarounds, and decommissioning. Acuren endeavors to help clients maintain assets in a fit-for-service condition while extending its remaining life in the most reliable, safe, and cost-effective manner. Acuren provides asset integrity services for all industries including: oil and gas, petroleum, petrochemical, pipeline, chemical, pulp & paper, power generation, manufacturing industries.

ENGINEERING & LAB SERVICES SUPPORT
Asset Integrity Inspectors at Acuren are backed by fully equipped laboratories and highly specialized engineering services. Acuren engineers can:
- Develop integrity programs for Owners to improve reliability
- Assess a component’s condition for continued service or determine the long-term feasibility of operation
- Evaluate a components chemical or mechanical properties for conformance to codes, standards and client specifications
- Identify unknown scales and process materials found during inspections
- Identify failure/damage mechanisms and perform root-cause analysis
- Perform API 579 fitness for service evaluations on damaged components
- Develop weld procedures and other engineered repairs

RELIABILITY SERVICES
Acuren provides integrated reliability services and processes throughout all levels of an organization in order to assist them in meeting their unique goals. Some of these services include:
- Predictive Maintenance (PdM)
- Reliability Engineering
- Piping Integrity
- Valve Integrity
- Asset Lubrication Program

RISK-BASED INSPECTION (RBI)

CHIEF INSPECTOR SERVICES
Acuren provides contract Chief Inspector services or support existing Owner’s Chief Inspectors. We provide these services to ensure safety, operational reliability and regulatory conformance of the pressure equipment throughout the full life cycle of the equipment. Acuren’s Chief Inspector services include:
- Develop Quality Management System manuals, programs, and procedures customized to Owner’s business practices
- Provide training for operations, maintenance, engineering, and asset-integrity personnel
- Manage databases of pressure equipment static data, in Acuren or client programs
- Third-party quality audits of vendors, such as PSV service companies and fabricators
- Surveillance activities/inspections during repairs, fabrication of pressure equipment
- Perform in-service inspections
- Undergo audits with Owner to ensure regulatory compliance

TURNAROUND MANAGEMENT / PLANNING SERVICES
Careful and consistent planning are key to ensuring the success of a plant turnaround. Acuren personnel can manage turnarounds or work as part of a team to coordinate shutdown activities including timing, personnel selection, inspection plans, process optimization, and perform pre-outage inspections. Acuren can select and manage vendors required during routine out-of-service inspections (eg. cleaning, scaffolding, safety watch) which improves efficiencies and reduces costs and downtime for our clients.
BOILER & PRESSURE VESSELS
- Pressure vessel integrity assessments performed by highly experienced qualified API 510 individuals
- Boiler inspections performed by National Board commissioned inspectors, where required
- Accredited to local jurisdictions (ABSA, TSask, etc.)
- Select NDE methods and locations
- Certification of equipment for continued use
- Specify inspection intervals based on code and jurisdiction requirements

PIPING SYSTEMS
- In-service inspections of piping performed by qualified API 570 personnel
- Fulfill duties of Owners inspector for new construction activities and repairs
- Develop piping inspection plans for facilities
- Select NDE methods and locations
- Perform stress analysis to identify areas of high stress

WHY ACUREN?
- Our engineering and lab services are integrated to support construction & repair activities
- Engineering services can eliminate costly repairs and downtime by evaluating equipment condition prior to a failure
- Extensive presence across North America to serve diverse geographical needs and reduce mobilization costs
- National Board Program for federally regulated equipment
- Inspections carried out to rigorous internal quality programs, procedures and processes
- Robust inspector competency programs ensure qualified and competent inspectors
- Industry leading depth of visual inspection and NDE capabilities

TANKS
- Inspections of tanks are performed by highly experienced, qualified API 653 personnel
- Oversee construction, commissioning, onstream & out-of-service inspections, rehabilitation activities
- Latest technologies to perform NDE, including laser scanning, automated UT, TOFD, MFL
- Certification of equipment for continued use
- Specify inspection intervals based on code and jurisdiction requirements

EQUIPMENT REPAIRS
- Determine if repairs are required based on relevant regulations, codes, standards, specifications
- Develop repair plans for scheduled or found work
- Oversee all repair activities on behalf of Owner
- Ensure repair performed in accordance with applicable jurisdictional, code and customer requirements
- Certification, NDE, and inspection of repaired equipment

QUALITY PROGRAMS
Acuren employees follow internal quality and safety programs to ensure work is performed to a high standard of excellence. Acuren quality programs include:
- ISO 9001 Certification
- Acuren Labs accredited to ISO 17025 across various locations and scopes
- Quality programs with local jurisdiction (e.g. ABSA) to perform in-service inspections of pressure equipment
- Authorized CSA W178.1 Inspection Company
- Authorized National Board In-Service Inspection Agency

ROPE ACCESS TECHNOLOGY
- Rope access is a safe, flexible alternative to scaffolding, swing staging, and personnel baskets
- The benefits are cost savings and quicker inspections, reducing equipment downtime
- Uses industrial climbing equipment to access equipment to be inspected, redundant safety measures, highly qualified rope technicians
- Many types of inspection, maintenance and NDE activities can be performed using rope access methods

NONDESTRUCTIVE EXAMINATION (NDE)
Acuren inspectors understand the damage mechanisms that plague the pressure equipment industry. Acuren provides in-house traditional, non-destructive testing of components including: ultrasonic thickness testing, magnetic particle testing, liquid penetrant testing, and conventional radiography. Advanced NDE services are also offered including: laser scanning, phased array ultrasonic testing (PAUT), time of flight diffraction (TOFD), EMAT screening, pulsed eddy current (PEC), real time radiography (RTR), digital/computerized radiography (DR/CR), guided wave. Tubular inspections can be performed with Eddy Current (EC) Remote Field Testing (RFT), and acoustic pulse reflectometry (APR), magnetic flux leakage (MFL), and IRIS techniques. Remote inspections can also performed with videoscopes and unmanned aerial vehicles (UAV)
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Southeast 919.875.8240
Northeast 724.228.2155

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