



**ASSET INTEGRITY & RELIABILITY:
IN-SERVICE INSPECTIONS
& MECHANICAL INTEGRITY**



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ASSET INTEGRITY & RELIABILITY: IN-SERVICE INSPECTIONS & MECHANICAL INTEGRITY

Audubon Companies certified inspectors, engineers, and qualified personnel deliver comprehensive in-service inspections and mechanical integrity services that help to achieve and maintain integrity. With expertise in the oil and gas, refining, petrochemical, and power markets, our highly trained professionals are current on the latest technology and trends to ensure safety and adherence to code and API standards for pressure vessels, piping, above-ground storage-tank inspections, and other assets.

From risk-based inspections (RBI) to fitness-for-service (FFS) piping assessments, our broad range of value-added inspection and mechanical integrity services helps mitigate risk while improving facility safety and prolonging asset life. Our certified professionals provide recommended actions, data analysis, and customized reporting to help you manage your facility activities and physical equipment.

Our certified inspections are based on the American Petroleum Institute (API) recommended practices:

API 510 - Pressure Vessel Inspections for Maintenance, Rating, Repairs & Alterations

API 570 - Piping Inspection for Repairs, Alterations and rerating of In-Service Piping Systems

API 571 - Damage Mechanisms Affecting Fixed Equipment

API 579 - Fit for Service (FFS) Analysis

API 580 - Risk Based Inspections (RBI)

API 653 - Above Ground Storage Tank Inspection for Repairs, Alterations & Reconstruction

API 936 - Refractory Installation Quality Control - Inspection and Testing Monolithic Refractory Linings & Materials

IN-SERVICE INSPECTION SERVICES

Turnaround & Shutdown Inspection Support Services:

- Pre-Turnaround Planning
- Turnaround Execution:
 - API Discovery & Inspections (510, 570, 653, 936)
 - Repair Recommendations
- Post-Turnaround Documentation
- Non-Destructive Testing & API Inspections

Baseline Inspections:

- Baseline UTT Readings & Inspections for Vessels & Tanks
- Plant Management Software Implementation
 - Includes PCMS and Meridium
- Drafting Services
 - Piping Systemization & Circuitization
 - Field Sketching
 - AutoCAD

Run & Maintain Operations Services (API Compliant):

- Nested (Onsite) API Inspectors
- Nested (Onsite) NDT Technicians
- On-Stream Inspections
- Risk Based Inspection (API 580/581)
- CUI Inspections

MECHANICAL INTEGRITY SERVICES

Combined with our technical inspection services, we can support your operation in developing and implementing cost-effective, technically sound, and compliant Mechanical Integrity (MI) programs that improve the safety and reliability of your facility's equipment and maintain integrity. Our integrated services include:

- Development of Appropriate Equipment Inspection, Testing, & Preventative Maintenance Activities
- Development of Effective Mechanical Integrity (MI) & Risk-Based Inspection (RBI) Programs
- Strategies to Establish a Reliable, Top-Performing Workforce Responsible for the Mechanical Integrity Program Activities
- Data Digitization & Management
- Software Consulting, Solutions, & Implementation (IDMS & RBI Software)

Our Mechanical Integrity services and solutions are customized to fit each facility's unique needs, based on a thorough understanding of regulatory requirements and expectations, which includes:

- Identifying & List All Covered Equipment & Selection of Assets (Pressure Vessels; Storage Tanks; Piping; Relief Devices)
- Procedure Writing & Review for Inspection & Maintenance Personnel
- Establishing Requirements for Training, Qualification, & Certification of Personnel
- Creating Documented Inspection, Testing, & Preventative Maintenance Scheduled Activities
- Making Recommendations to Correct Identified Equipment Deficiencies (i.e., Fitness-For-Service)
- Quality Assurance for Spare Parts & New Equipment
- Developing Reliable Performance Metrics to Support Mechanical Integrity Programs





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