



Applied Technical Services

# Mechanical Integrity Inspections

## We Take A Closer Look

### Mechanical Integrity Inspection (Full Lifecycle of Piece Equipment)

#### Mechanical Integrity Inspections

Under increasing scrutiny from local, state, and federal regulations, today's terminal operators need up-to-date knowledge on the material condition of their facilities. With an aging infrastructure and higher demands for uptime, carefully planned and executed inspection and maintenance activities are crucial to ensuring regulatory compliance, facility safety, and optimization of resources.

#### Mechanical Integrity Program

Beyond the obvious financial issues associated with maintaining equipment, there are three reasons why every company should have a mechanical integrity program:

- To protect personnel
- To help prevent disasters
- To protect our environment

- Above Ground Storage Tanks
- Pressure Vessels
- Piping Systems
- Recovery and Package Boilers
- Relief and Vent Systems
- Digesters
- Dryer Cans
- Emergency Shutdown Systems
- Heat Exchangers
- Controls
- Pumps
- Water Tanks

**Applied Technical Services**

1049 Triad Court  
Marietta, GA 30062



Website: [www.atslab.com](http://www.atslab.com)



Tel: +1 (888) 287-5227



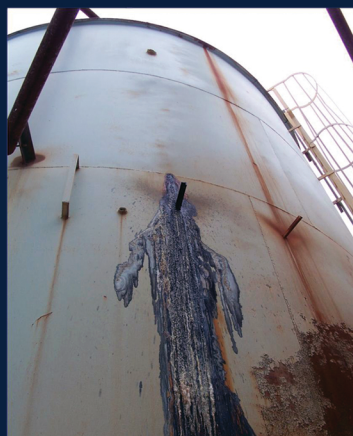
## Mechanical Integrity Inspections Capabilities

- Reliability and Maintenance Engineering Services
- API-653 / API-510 / API-570 Inspections and Engineering Evaluations of Storage Tanks, Pressure Vessels, and Piping
- Complete NDT Methods of Inspection Including: UT, PT, MT, RT, Vac Box, MFL, Leak Detection
- Reduce Risk and Protect Investment
- Certified API Inspectors and Experienced Engineering Support to Provide Guidance on Repairs and Run/Replace Decisions
- Maintain Compliance with Government / Local Regulations and Industry Accepted Standards
- API-650 / API-653 / API-510 / API-570 / UL-142 / STI SP-001 / AWWA D100

## Evaluating Mechanical Integrity

Applied Technical Services performs pipe inspections as one component of our mechanical integrity programs. Our engineering team develops mechanical integrity programs to suit each client's specific needs. We can evaluate equipment such as pipes, storage tanks, and pressure vessels for numerous issues, including:

- Corrosion Under Insulation
- Flow-Accelerated Corrosion
- Erosion
- Cracking
- Fatigue



ATS offers a wealth of services to terminal operators to help ensure the integrity of their storage tanks, pressure vessels, piping systems, and auxiliary equipment.

- In-service and out-of-service inspections by certified American Petroleum Institute (API) and Steel Tank Institute (STI) inspectors.
- NDT Level II and Level III trained personnel meeting the requirements of SNT-TC-1A.
- Engineering evaluations and Risk Based Inspections (RBI) of equipment that allow for accurate run-replace-repair decisions to be made.

We evaluate all systems according to applicable codes and standards, so clients know whether their equipment meets compliance requirements. ATS uses several forms of nondestructive testing and inspection to evaluate system health without compromising the equipment's integrity. These methods include:

- Visual Testing
- Penetrant Testing
- Magnetic Particle Testing
- Ultrasonic Thickness Testing
- Radiographic Testing
- Bubble Leak Testing

## Maintaining a Mechanical Integrity Program

Our Mechanical Integrity Programs benefit clients through process safety management (PSM) and monitoring fixed asset conditions. ATS engineers can create or assess a mechanical integrity program for both aboveground and underground storage tanks. Comprehensive mechanical integrity programs typically address the following:

- Inspection frequencies
- Inspection methods
- Jurisdictional regulations
- Applicable inspection standards
- Program management and ownership

## Our High-Quality Services

For over 50 years, ATS has continually improved upon customer experience. Our experts deliver clear, accurate, and precise data as quickly as possible so that clients can make timely, informed decisions. Our customer service team always connects clients with the most pertinent expert available who can assist with their inquiries.

