

**TEAM**<sup>®</sup>



**Inspection and Testing Services**

# Inspection and Testing Services

## Employing Innovation and Expertise to Validate Material Integrity

Machined parts and industrial structures can be complex systems that experience extreme loads and fatigue during their lifetime. Non-destructive evaluation (NDE), or Non-destructive testing (NDT), enables the inspection of these components without permanently altering the equipment. It is a highly valuable technique that is often used to validate the integrity of materials, detect instabilities, discover performance outside of tolerances, identify failed components, or highlight an inadequate control system. As technology has evolved, the types of inspection and equipment selection process options have become more advanced. However, this has also made the inspection selection process more complex. It is important to note that choosing the wrong inspection method can end up costing you a significant amount of wasted time and money.

### Factors that Influence Inspection Method Selection

- Damage mechanism
- Description of the application
- Geometry involved
- Environment
- Accessibility and other constraints for inspection
- Size, location and orientation of the discontinuity
- Surface inspection/testing vs. internal

### Questions to Determine Proper Inspection Method

- What is the intended purpose of the material/equipment being inspected?
- What are you trying to measure?
- What do your parts look like?
- What is the turnaround time required?
- What tolerances do you have?
- Is speed of inspection a factor?
- What regulations exist that may dictate not only the inspection method, but also the procedure?
- What environmental issues constrain the choice?
- Does the test need to be performed in the field or in a specialized testing facility?
- What are the engineering requirements that define the type of anomaly that could lead to failure of the structure or component?

✓ TEAM strictly adheres to AWS, API, ASME, ABS, and NACE codes, guidelines, recommendations, and specifications.

### Solutions Offering

- + Conventional NDE disciplines
  - ET, MT, PT, RT, UT, VT
- + Visual inspection
  - API, AWS, NACE
- + Automated ultrasonics testing
- + Computed / digital radiography
- + Guided wave testing
- + Matrix-focused phased array
- + EMAT
- + Tube inspection
- + Mechanical integrity
- + Rope access



TEAM provides complete NDE/NDT inspection and testing services for industries worldwide. Each inspection service we perform is carefully selected for each specific job, backed by 40+ years of experience and driven by innovative technologies and techniques that are employed by fully trained and certified, expert technicians. No matter how simple or complex your inspection requirements, our ultimate goal is to maximize quality, safety and productivity in your critical components, equipment and processes. We provide accurate results, proactively detect issues, and can determine if a specific component is structurally sound. TEAM technicians safely and reliably meet any inspection requirement or industry standard anytime, anywhere.

### Advantages

- Validates the integrity of your materials, processes and components utilizing advanced testing methods and techniques
- Detects deficiencies prior to failure
- Ensures quality, safety and productivity in your critical components, equipment and structures
- Minimizes both scheduled and unscheduled downtime
- Guarantees your compliance needs are covered
- Detects and characterizes damage mechanisms utilizing specialized techniques

### Special Emphasis Programs

- Turnaround and shutdown inspections
- Corrosion under insulation
- Retro PMI
- Buried piping inspection
- Soil to air inspection
- Contact point inspection

TEAM experts are available 24 hours a day, 7 days a week, 365 days a year.

Find your local contact at [TeamInc.com](http://TeamInc.com).

### Why TEAM?

- + Single supplier for asset integrity management solutions worldwide
- + Company-wide commitment to safety
- + Trained and certified expert technicians
- + Complete range of maintenance and repair services
- + Engineering, manufacturing and technical support
- + World-class quality processes and systems



**TEAM**®

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