

# Inspection & Testing Services

TEAM®



# 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 progressed, the types of inspection and equipment selection process options have become more advanced. However, this has also made the inspection selection process more complicated. It is important to note that choosing the wrong inspection method can end up costing you a significant amount of wasted time and money.

## INSPECTION & TESTING SERVICES

- + 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

### 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 versus 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.**

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 forty-plus 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 of TEAM's Inspection & Testing Services:**

- + 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



#### **Why TEAM?**

- + Single supplier, single point of contact worldwide
- + Company-wide commitment to safety
- + Trained and certified inspectors
- + Full-service, high-volume labs
- + Complete range of inspection services
- + Advanced testing methods and techniques
- + Engineering, manufacturing and technical support
- + World class quality processes and systems

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

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