

Guided Wave Short Range Scanning Services

Damage mechanisms like corrosion under pipe supports (CUPS) can be inaccessible due to their location, sometimes causing significant damage to your assets.

Traditional methods, like visual inspections aren't enough when the job requires more advanced techniques.

But, there is a solution.

MISTRAS' Guided Wave Short Range Testing service uses ultrasonic sound waves sent through electromagnetic probes. When the waves make initial contact with the pipe's damaged area, the sound is reflected and received by a transducer. This technique can detect issues like corrosion that are typically inaccessible due to obstructions such as support structures, bracing, and brackets.

Key Features/Advantages

- ▶ Quantitatively measures corrosion at supports and penetrations
- ▶ Inspects for Touch Point Corrosion (TPC)
- ▶ Quick, accurate, reliable, and repeatable
- ▶ Sees through different sized coatings

- ▶ Use on alloys/composite materials
- ▶ Testing doesn't require couplant
- ▶ Real-time corrosion mapping

Axial Service Specifications

- ▶ Indirectly measure wall thickness
- ▶ Pulse-echo sensor configuration
- ▶ Wave modes sensitive to pipe wall thickness
- ▶ Inspects axially into inaccessible areas
- ▶ Any pipe orientation
 - Diameter: 4" to flat (no upper limit)
 - Wall Thickness: .25" to .60"
 - Pipe coating $\leq 1\text{ mm}$ thick

Circumferential Service Specifications

- ▶ Simple supports
- ▶ Horizontal pipe resting on beams
 - Diameter: 6" to 24"
 - Wall Thickness: .25" to .50"
 - Pipe coating $\leq 1\text{ mm}$ thick



Testing Automatically Organizes Scan Parameters



Service Capable of Stitching Together Large Scan Areas

**Detect Corrosion That's
Out of Sight**

Call +1-833-MISTRAS