



# APPLICATION NOTE

# **Corrosion Scanning with Handheld DM Array Probe**

# Customer Need

Historically, ultrasonic corrosion surveys have been conducted with point measurement probes taking a grid of points over a given area. Unfortunately, this method provides an incomplete picture which makes it likely that the true minimum of a given inspection area is never detected.

## **Customer Solution**

By using BHGE's handheld DM Array Probe, the suspect area can be 100% scanned to locate the true minimum thicknesses--as well as any random pitting or damage that may exist. This provides a much more accurate assessment.

#### Key Features

- Customizable Palm Scanner App on the Mentor UT provides a guided workflow to standardize and reduce time for calibration and set-up of inspection
- Touch screen operation for fast and easy interrogation of suspect areas
- DM Array probe optimized for pitting corrosion detection
  - Modular probe design for cost effective replacement



Modular DM Probe

# Application

Inspection of assets subject to internal corrosion and erosive wall loss such as piping, storage tanks, and other critical assets; requiring visual display and confirmation of remaining wall thickness.

### Modality

Ultrasonic (Phased Array)

#### Industry

Oil & Gas and Power Generation



A & E Scans, Selectable Measurements, and Touch Screen operation

# Equipment Used

- Mentor UT Phased Array Flaw Detector P/N 100N3883
- DM Acoustic Module (5 MHZ x 1.5 mm) P/N DMARRAY\_MOD1
- Probe Cable (3 m; Side Exit) P/N DMCABLE\_3M\_RT

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10/2017

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