Guided Wave Testing Case Study 7
Defects in Elbows

Bends or elbows are common pipe fittings which are susceptible to corrosion and erosion. Using the C-Scan, defects at elbows can be detected and prioritised.

**Job Details**

- 16" Crude Oil line
- Tight 1D elbows

**Main Findings**

- Defect located in one of the two elbows within the test range.
- The defect is circumferentially aligned with the outer radius where the erosion type defects are commonly found.
- UT confirms the elbow defect has a 65% wall loss.

**Equipment:**

- Wavemaker® G4™
- EFC Inflatable Ring

A view of the inner radius of the 1D elbow.

A view of the outer radius of the 1D elbow.