

CASE STUDY

Coated Pipes for Blind Testing of ARTEMIS®

Blind tests have been performed on several corroded spool pieces with ARTEMIS®, with exciting results.

THE CHALLENGE

- A major operating company prepared four spool pieces for blind testing
- All spool pieces contain corrosion features and are coated with a shrink wrap field joint coating
- Prior to coating all the pipes have been inspected using a standard AUT inspection method
- Full Data on one of the spools has been supplied as a reference for the inspection
- The pipes have been shipped from the PRCI pipe store in Houston to the Halfwave laboratory in Portland UK

SAMPLE PIPE DETAILS

- Pipe diameter: 16" OD
- Pipe length: 1000 mm
- Pipe thickness: 0.500" (12.7 mm)
- Pipe material: X52 and X60
- Shrink wrap type: Canusa PP or PE heat shrink wrap
- Coating thickness: 2.3 – 2.5 mm

SOLUTION

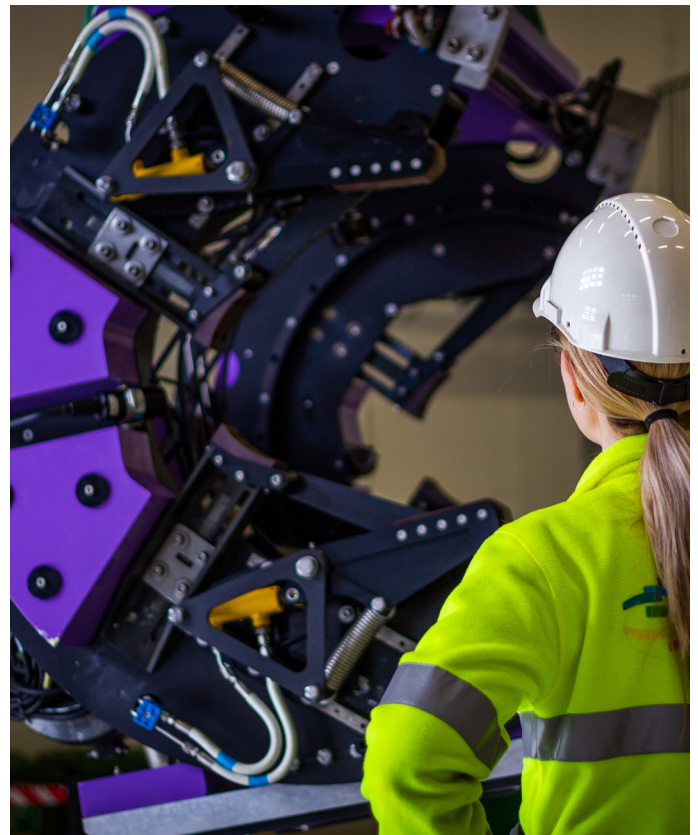
The pipes have been inspected using the Halfwave tank facility and using the ARTEMIS® system.

THE RESULT

Client advised that all defects were identified and sizing expectations were met.

THE CONCLUSION

ARTEMIS® has provided data measurement quality on par with existing automated ultrasonic systems without the need for field coating removal. The operator selected the ARTEMIS® in-field subsea inspection with results that well exceeded expectations for flexibility, quality and accuracy. A new and valuable tool has been added to the industry's toolbox for pipeline integrity assurance!



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