Acoustic Ranger

Oceaneering offers a fast reliable system for the detection of holes, leaks and complete or partial blockages in tubes and pipes up to 500mm in diameter.

Based on sonar technology, the Acoustic Ranger offers an alternative to the established approach that usually requires insulation removal or scaffolding erection and is more disruptive and expensive.

FEATURES

- Detects holes, leaks and blockages
- Up to 1000 tubes per shift
- 6mm to 500mm diameter
- Unaffected by bends

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TECHNIQUE

An acoustic transducer is applied to the end of the tube under test and a sound wave transmitted through the air in the tube. Changes in the cross section for example a partial blockage produces reflections of sound that are detected by a receiver element within the transducer.

APPLICATIONS

- Proving vent lines and pressure relief steam lines clear
- Examination of heat exchanger and condenser tubing for debris and through wall holes
- Positioning blockages and equipment within pipework
- Proving process pipework serviceable
- Detection of collapsed linings

ADVANTAGES OF THE ACOUSTIC RANGER

- Fast and efficient, up to 1000 heater tubes per shift.
- One man operation.
- Long range, up to 500m from a single access point.
- Tube sizes 6mm to 500mm.
- Fully Portable.
- High sensitivity, blockages and foreign bodies equivalent to 10% and holes of 1% of the tube cross section are readily detectable in field use.
- All data digitally stored.
- Unaffected by bends and is equally effective on straight or complex spira tubing.

Asset Integrity

Oceaneering is a world class provider of asset integrity services. For further information on the full range of services provided please visit www.oceaneering.com/asset-integrity or email asset-integrity@oceaneering.com

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