

Advanced NDT and Inspection

Specialist Inspection Services (SIS)

Oceaneering® SIS offers industry-leading advanced non-destructive testing (NDT) technology. State-of-the-art equipment and specialized training meets the ever-increasing demand for complex, non-intrusive inspection (NII).

Our infrastructure offers a comprehensive range of Specialist Inspection Services that individually or in combination provide solutions to meet the industry's most challenging applications.



FEATURES

Strategically located global centers of excellence

Crew deployment optimized to align with inspection requirements

Proven track record of highly-effective inspection solutions

Advanced NDT Inspection

Specialist Inspection Services (SIS)

Guided Wave Testing (GWT)

Oceaneering offers the Wavemaker® G4™ Rapid Pipe Screening System as a reliable technique for assessing the condition of pipes. Guided wave testing is used for rapid screening of long lengths of pipe to detect volumetric change and external and internal corrosion. GWT enables inspection of areas that are difficult to access such as buried sections of pipe, insulated pipes, and pipes with protective coatings.

ElectroMagnetic Acoustic Transducer (EMAT)

An EMAT is used to complete ultrasonic testing (UT) by introducing waves to gather thickness measurements on ferromagnetic and non-ferromagnetic metals. The EMAT does not require a couplant for sound transmission and can inspect through coatings, making it suitable for applications where production is on-line and where access to the entire pipe surface may be limited.

Advanced Ultrasonic Testing (AUT)

Advanced Ultrasonic Testing covers a wide range of ultrasonic examination techniques where the primary focus is locating flaws and corrosion within materials. We offer a comprehensive suite of AUT methods that provide clients the flexibility and accuracy needed to assess the condition of assets.

Advanced Ultrasonic Testing technologies include:

- » Ultrasonic Corrosion Mapping
- » Phased Array Ultrasonic Testing (PAUT)
 - » Corrosion Mapping, Flange Face, Small Bore Scanner & Pipework
- » Time-of-Flight Diffraction (TOFD)
- » Multi-Skip (M-Skip®)

Pulsed Eddy Current (PEC)

Our Pulsed Eddy Current (PEC) inspection technology detects corrosion areas in carbon and low alloy steels. This electromagnetic inspection technique can take measurements through any non-conductive material (insulation, protective coatings, concrete, and marine growth), making it suitable for inspections where the object's surface is not immediately accessible.

Digital Radiography (CR/DR)

Digital Radiography can be completed by computed or digital detector array systems, each of which is used for specific applications. Radiography using digitally captured media is a powerful NDT technique that enables clients to identify and investigate a large number of asset integrity concerns efficiently and non-intrusively.

In addition to detecting welding flaws in the construction phase, the application of digital radiography has evolved to include the detection of process induced flaws through coatings, wrapped repairs, and insulation while assets remain in service.



M-Skip® is a registered trademark of ESR Technology Limited

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