

SPECIALIST INSPECTION SERVICES



Non-Destructive Testing has radically changed emphasis over recent years from a focus on detecting defects arising during the manufacture of new products, to detecting process induced integrity problems. Oceaneering Asset Integrity has established itself at the forefront of an NDT technological revolution by a process of investment in state of the art equipment and specialized training to meet this step-change. The result is an infrastructure that offers a comprehensive range of Specialist Inspection Services (SIS) that individually or in combination provides solutions to the ever-increasing demand for Non-Invasive Inspection.

From strategically located centers of excellence SIS services are coordinated on a worldwide basis and offer a proven record of delivering a safe, technically sound and cost effective service.

The SIS department employs experienced fully qualified NDT level III technical support personnel who maintain the organizations competitive advantage by constantly monitoring and evaluating incremental and radical innovations in inspection technology.



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Technique	Description
Acoustic Ranger	Rapid technique for the detection of leaks and blockages in tubes and pipes.
Alternating Current Field Measurement	ACFM is used for the detection and sizing of surface breaking flaws. The technique requires only minimal surface preparation and can be applied through paint and other coatings.
Computed Radiography	A reliable, cost effective alternative to conventional film by employing flexible, re-usable phosphor plates to capture digital images.
Corrosion Mapping	Non-invasive ultrasonic corrosion mapping providing a reproducible fingerprint. Automated and Semi Automated systems available including remotely operated systems.
Hydrotector	Detection of moisture in thermal insulation and hydrocarbon fluids levels.
Wavemaker Pipe Screening System	The Wavemaker Pipe Screening System uses low frequency guided ultrasonic waves that propagate along the pipe wall and is designed for rapid screening of long lengths of pipe to detect external or internal corrosion
Permanently Installed Monitoring Rings (PIMS)	The cost of gaining access to some pipes can far outweigh the cost of inspection. Whenever periodic inspections are needed from the same location, a permanently installed sensor can be mounted and left on the pipe. Capable of generating results to allow accurate trending and corrosion monitoring.
Magnetic Flux Leakage (MFL)	Rapid Inspection of and storage tank floors for the detection of under floor corrosion.
PEC (Pulsed Eddy Current)	Non-contact technique for measuring the volumetric average remaining thickness of steel objects through any non-magnetic material.
Manual Phased Array Ultrasonics	Phased array transducers enable ultrasonic beams to be electronically focussed or swept in varying angles along the length of the array reducing the scanning requirement of conventional transducers. Technique can be used in lieu of radiography in correct circumstances.
Small Controlled Area Radiography (SCAR)	Model 959 non-projection Gamma Radiography system developed with safety and cost effectiveness as the main objectives. It can enable radiography to be carried out within 2 to 3m from the source keeping radiation levels ALARP.
Baby SCAR	Model 989, non-projection operation, similar to the model 959, however much reduced physical size of the gamma container increases applications without compromise to safety.
Time of Flight Diffraction (TOFD)	A semi-automatic ultrasonic technique using Time of Flight diffracted signals for detecting and accurately sizing flaws.
Tube Inspection	Inspection of ferrous and non-ferrous small diameter tubes: IRIS Eddy Current Remote Field Eddy Current Dinsearch
For further information on each technique please see individual brochures.	

