

Innovative Solutions for Integrity Assessment of Offshore & Subsea Assets



Innospection is an integrity support specialist providing advanced inspection services and solutions for the lifetime assessment of topside, splash zone and subsea assets in the Oil & Gas industry.

Multi-Function MEC-Combi Inspection Tools

The harsh unforgiving subsea environment, market uncertainties due to falling oil prices and the demand for integrity support inspections have continued to lead Innospection to develop both smart and cost effective technology solutions to support the lifetime assessment of flexible and rigid risers, caissons, conductors, subsea structures and pipelines, non-piggable pipelines, ship hulls and mooring lines.

The next generation Magnetic Eddy Current (MEC) technique, which is a further development of the high performance fast corrosion screening SLOFEC technique, is used by Innospection as a key tool for integrity assessments support.

Capable of detecting the smallest pitting corrosion, cracks and thinning, the MEC technique also targets the most difficult inspection challenge i.e. the in-situ inspection of flexible risers and pipes of coated, multi-layered wire construction for defects and deformation in the internal layers without the removal of the pipes from the production location.

The range of robust MEC-Combi inspection tools enables the incorporation of multiple inspection techniques such as PEC, high resolution UT, laser and camera system in addition to the MEC technique for reliable qualitative and quantitative data within a single deployment.

An advanced marine growth removal system can also be incorporated for a simultaneous cleaning and inspection operation. With self-crawling ability, these MEC-Combi tools target subsea accessibility challenges and are able to relieve the project dependence on the most expensive resources such as divers, work-class ROV systems and support vessels in subsea inspection projects.

2015 had been a buoyant year with outstanding inspection achievements, such as:

- External inspection of non-piggable subsea pipelines
- Inspection of flexible risers for crack in both armour wire layers with deployment

by an inspection-class ROV as well as accurate wire gap sizing

- Fitness-for-service analysis of conductors with a dedicated system able to inspect from the splash zone to the seabed within a short time

To further support our clients, progress has been made to the ongoing developments such as:

- An extended inspection scope for flexible risers
- An automated splash zone inspection system for hull inspection
- Subsea corrosion mapping and geometry measurement of structural legs and conductors
- Automated defect sizing capability for the MEC technique
- Inspection technique and tool for typical field inspection of CRA-clad and heavy-walled pipes which are until now non-inspectable.



Whatever your inspection challenges and integrity targets are, Innospection could be your solution provider. For more information, please contact info@innospection.com or call Aberdeen: +44 (0)1224 724744