

Sensing Down Under Life Extension through Subsea Monitoring

Wednesday, 11 June 2014

Parmelia Hilton Hotel (Swan Room), Mill Street, Perth

Registration 5.30 pm: Presentations 6.00 pm – 7.30 pm Networking over drinks and finger food 7.30 pm – 9.00 pm

Chaired by: **Roland Fricke, Subsea & Pipelines Engineering Authority, Woodside Energy Ltd.**

Robby O’Sullivan, Subsea Regional Technology Officer, Asia Pacific, Technip Oceania
Monitoring of Flexible Pipes - State of the Art

Monitoring of any subsea asset is a technological challenge in its own right and monitoring of a flexible riser is no less challenging. This presentation will focus on a number of existing and emerging technologies being deployed to monitor key characteristics of a flexible riser. The technologies to be presented include acoustic emission monitoring of armour wire breakage, curvature monitoring and distributed temperature sensing for annulus flooding. The presentation will explain how these technologies can be used to re-evaluate the “consumed” service life of a riser at any time, thereby providing valuable input to the field management decisions such as replacement philosophy or field life extension.

Brad Tindall, Measurement and Control Sales Manager, GE Oil & Gas
Subsea Integrity - Solutions for monitoring and extending the life of subsea assets

With field life for new and existing developments becoming longer in terms of years, the requirement from operators to understand the integrity of their subsea equipment also grows especially for existing installed items. This short presentation will look at potential solutions that GE Oil & Gas are working on and developing with operators, that can be utilized within Australian waters, in particular a new area that is taking radiography into the subsea arena.

Hugh Howells, Principal Director, 2H Offshore
Secrets of a Healthy and Happy Old Age - Putting Riser Monitoring Data to Good Use

Riser and conductor systems are known to be safety critical components of subsea field developments. Fatigue response of these structures is one of the main drivers for long term integrity. While motion monitoring has been used for the past 15 years to monitor in-service response of risers and conductors, a key challenge is in how the data is interpreted and applied within an integrity management plan or how it can be used to make operational decisions. Case studies will be presented to provide an overview of monitoring systems used for various types of riser systems to measure fatigue due to wave and currents. It will be demonstrated that life extension of riser and conductor systems can be justified by reducing safety factors based on a better understanding of system response gained through structural monitoring.

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