

Subsea Monitoring and Data Acquisition

Wednesday 10th June 2009

Melbourne Hotel (John De Baun Room), **Corner of Hay & Milligan Street, Perth**

Registration / Bar Opens 5:30pm: Presentations Start at 6:00pm: Drinks and Canapés 7:30pm

Chaired by: **Terry Griffiths, Principle Pipeline Engineer, JP Kenny**

J P KENNY

New Surveillance Solutions for Risers and Flowlines

Jon Machin, Business Development Manager, Schlumberger Subsea Surveillance

Schlumberger

Subsea Surveillance

New continuous surveillance systems applied to subsea risers and flowlines provide simple and clear measurement of the parameters necessary to monitor their long term structural integrity and reliability. For new field installations, these monitoring systems can be efficiently integrated at the design stage with multiple value-adding objectives, from integrity and production surveillance to flow assurance applications. For existing facilities already in operation, retro-fitted products can be easily installed in response to specific needs arising in the field. This presentation describes a number of specific solutions which have been developed and successfully deployed.

Recent Advancements in Riser Monitoring Systems

Shreenaath Natarajan, Technical Manager, 2H Offshore Engg Sdn Bhd.

2H
offshore

Shreenaath will focus on the subsea strain monitoring deployed on a deepwater steel catenary riser (SCR) providing a comprehensive monitoring solution capturing wave/vessel induced response, VIV and pipe/soil interaction. A significant improvement in reducing risk and cost by using subsea acoustic transmission system compared to a cumbersome realtime monitoring via umbilicals will also be presented through a case study where a vessel mooring line integrity is monitored using subsea acoustic monitoring system. An innovative microphone based flexible riser monitoring device to detect armor wire rupture is also presented along with the positive outcome from the field trial.

Optima, a suite of tools for on board riser management

Craig Schluter, Consultancy Manager, Fugro GEOS



Fugro GEOS have extensive experience in the measurement of subsea currents and their effect on structures in general and risers in particular. This talk will describe in general terms a system for measuring the current profile at a rig performing completion and workover operations in deep water in the Gulf of Mexico over a period of several years. The measured current profile is used by the MCS software package Optima to calculate the riser profile, and estimate the fatigue history of the riser. The software module is one of the range of the MCS/Fugro Optima Suite for Riser Operations Planning and Management, which will also be described.

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