

# Subsea IMR & Integrity Management

## Growing requirements on the North-west Shelf

Wednesday, 25<sup>th</sup> February 2015

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: **Marcus Hemsted, General Manager–Business Development, SapuraKencana Australia**

### Cathodic Protection Surveys for Subsea Assets

**John Grapiglia, Principal Engineer & Company Director for Corrosion Control Engineering (WA) Pty Ltd.**

The management of external corrosion on subsea assets is an integral component in ensuring their integrity. There are a number of measurements which can be performed to assess the status of a cathodic protection system, however, there are also limitations as to the benefit of some of the data captured and reported during the surveys. Structures need to be assessed differently to pipelines, and the minimum requirements in terms of test equipment also vary. There are also common issues which apply in most installations which are not generally understood and are often reported as anomalies. This presentation addresses the various types of surveys, and the critical factors required to ensure the results provide meaningful data and allow a proper assessment of the cathodic protection status for subsea structures.

### FPSO Mooring System Repair

**Richard Rickett, General Manager Engineering and Procurement, DOF Subsea**

To minimise production downtime and reduce connection and disconnection risks, FPSOs are usually designed to withstand extreme weather conditions so that they can remain on station. These limits are sometimes exceeded, resulting in earlier than expected failure of mooring system components. Most FPSO systems have no facility to detect early signs of deterioration, so regular inspection campaigns are performed to confirm mooring system integrity, and it is not uncommon for failures to be detected at this stage. This case study outlines how with the right planning, preparation, and bespoke equipment, repair and/or replacement of damaged components can be executed safely (without divers) and successfully in a short time frame, minimising facility downtime.

### Latest Development in Subsea Wellhead and Riser Fatigue Monitoring

**Gordon Hamilton, Commercial Manager, Fugro GEOS Ltd.**

Subsea Wellhead and Riser fatigue is a particular issue in many environments, a significant number of operators are requiring that measurements are made to assess the fatigue of the wellhead. Based on some recent work completed for a major oil company, we present a case study on the latest developments in obtaining real time data on the motions on subsea risers and processing them to obtain wellhead and riser fatigue information.

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