Society for Underwater Technology

Perth Branch

Pipeline Repair

Wednesday 8th August 2012

Ibis Hotel (Salt Room), **Murray Street, Perth**

Registration / Drinks 5:30pm: Presentations Start at 6:00pm

Drinks, Canapés & Networking 7:30pm - 9pm

Chaired by: **Ewan Rowell, Chevron Australia Pty Ltd.**

Subsea Repair Challenges in the Australian Region

Allison Low, Wood Group Kenny

Alison's presentation describes the current state of the art in subsea pipeline repair technology, and discusses current technical challenges and technology gaps that the market needs to address in response to advances in pipeline design in increasingly challenging subsea environments. Specific issues faced by Australian pipeline operators are discussed, and the implications for the global industry are considered. The difficulties and rewards surrounding developing multi-operator shared repair capabilities are described and the approaches taken by various operators around the world to establish an EPRS are discussed.

Getting Damaged Pipeline back into Production: A Focus on Isolation and Re-commissioning

Robin Galletti, Saipem

Following the damage and repair of a number of large diameter subsea pipelines in the last few years, the overall capabilities that need to be sourced to put a damaged pipeline back into production shall be presented, from initial stabilization, decommissioning and isolation activities, to the re-commissioning of the line. A case study of an actual repair operation shall be illustrated, together with how both pipeline operators and EPRS providers are addressing these challenges.

The Effects of Thermal Cycling on Offshore Pipeline/Flowline Repair Tool Seal Systems

Ian Wilson, Woodside Energy Ltd.

Ian's presentation summarizes results from both coupon testing and full-scale testing directed at developing sealing systems to retrofit in traditional pipeline repair connectors and clamps so that they can undergo cycles of thermal heating and cooling without leakage. Significant findings from this effort are that elastomers extrude from seal cavities due to high thermally-induced swelling pressures exhibited by most elastomers, and that packer seals leak due to the loss of seal material. Coupon tests were conducted using elastomer discs to simulate the mechanics of full-scale packer seals of various grades used in pipeline repair tools. Finally, the project demonstrated effective sealing without high pressures and extrusion by using PTFE tape-wrapped die-cast graphite wedges to successfully seal against leaking and seeping of water and gas in annulus testing.

Australian Emergency Pipeline Repair – The Deepwater Challenge

Peter Wellings, Apply Nemo & Tim Dallas, Technip Oceania

The heart of an EPR facility is the subsea tooling and components that enable inspection, preparatory works and pipeline repair to be performed efficiently and with a high degree of technical integrity. This presentation will focus on the tooling and component requirements for a deepwater Australian EPR facility, with special emphasis on the technical challenges facing the newer deepwater fields that are now being developed, and where diverless technology is required for all intervention activities.

Event Sponsored by:

REGISTRATION FEES: SUT Members $10: Non-Members $30*

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To help reduce registration time on the night, SUT would appreciate if you could register and pay for this event in advance. Please note places are limited and it may not be possible to register on the door if capacity has been reached. Therefore advance registration is recommended to secure your place. To do this please e-mail perthevents@sut.org with delegate name, affiliation and credit card details, or if you prefer call + 61 (0) 8 9446 9903 with above details.