

MELBOURNE EVENING TECHNICAL MEETING

Engineering Solutions for Mature Subsea & Pipeline Assets

Thursday, 16th July 2015

Venue: Wood Group Kenny Offices, 171 Collins Street, Melbourne

Post-meeting drinks: The Long Room: Georges Arcade, 162-168 Collins Street (between Swanston & Russell)

Registration & Posters 4.30 pm : Presentations 5.00 – 6.45 pm, Networking, drinks and finger food 6.50 – 8.00 pm

Chaired by: **Wacek Lipski, Operations Manager, Wood Group Kenny**

Subsea Facilities Decommissioning – Selected Practical Optimisations and Considerations

Colin Convey, Project Manager, & Jacki Ford, Subsea Manager – Victoria, Oceaneering Australia Pty Ltd

This presentation covers practical considerations, methods and optimisation related to the implementation of decommissioning subsea oil and gas facilities. Topics include two case studies a) Basker Manta Deconstruction works, including facilities preparation, HSE considerations and equipment disposal and b) Subsea well abandonment and optimization of subsea tree system intervention tooling functionality and design, which offers opportunity to reduce time and cost of the offshore operations. This presentation will also provide an overview of Naturally Occurring Radioactive Materials (NORMs), including HSE risks and NORMs monitoring and management during subsea well and facilities decommissioning.

Pipeline Life Extension

Nathan Baranello, Design Engineer, Wood Group Kenny

Much of the existing Australian pipeline infrastructure was installed in the 60s and 70s and these pipelines are reaching the end of their intended design life. Further, they were designed and installed prior to the development of the current pipeline codes and standards. This presentation draws on recent work performed by WGK on onshore and offshore pipelines in our region. It highlights the lessons learned in assessing the fitness for purpose of the pipelines, addressing compliance of old pipelines to new codes and practical measures for managing ageing pipelines.

Protection of Melbourne Main Sewer Trunkline Yarra Crossing for Channel Deepening Project

Dr Andrew Potts, CEO, AMOG Consulting

The dredging works to deepen the Yarra River navigation channel access to the Port of Melbourne substantially reduced the seabed coverage to the main trunkline sewer that crosses the Yarra River upstream of the Westgate Bridge. This increased the risk of damage due to dropped or dragged anchors from large ships using the navigation channel. It was essential to characterize the risks, the potential critical events and develop innovative designs to protect the aged concrete pipeline, which had minimal protective cover. Conventional dropped and dragged pipeline protection for offshore subsea pipelines, usually are unrestrictive in terms of cover and/or involve trenching to a required depth before pipelay. In this instance, the protection measures were severely constrained by the in-situ pipeline alignment and the required dredging depth to meet minimum underkeel clearance for ships visiting the Port of Melbourne. This presentation will overview the various design investigations undertaken by AMOG in the development and proving of the innovative protection scheme for the sewer trunkline river crossing, where the consequence of failure could have had major unacceptable consequences.

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Posters and Q&A

Subsea Hydraulic System Commissioning

Q&A with Tim Dallas, Business Development Manager - Oil & Gas, Pressure Dynamics

Start up and commissioning dictate the likely reliability and profitability of the production and process system for many years to come. This Poster highlights key areas that require consideration when dealing with the hydraulic systems present in almost all subsea developments today. Examples are drawn upon to illustrate many of the points highlighted in the presentation.

Extending Window of Opportunity for Offshore Operations in choppy waters

Q&A with Cornel Derrenberg, Engineering Manager, Hydac Pty Ltd Australia

This Poster presents solutions that Hydac engineers (for Cranemaster from Norway), used for a Gorgon Development heavy lift in Australian waters. Another example is the gangway / walkway system for Shell Qatar developed by Hydac. The same solutions can be incorporated here especially in 'cyclone prone areas' such as NW WA & Timor.

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