

Pre-Commissioning & Start Up Issues

Wednesday, 29th April 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: **Roland Fricke, Subsea & Pipelines Engineering Authority, Woodside Energy Ltd.**

Integrity

Grahame Strong, Materials Lead Engineer, Wood Group Kenny

Over the past 8 – 10 years a number of significant subsea gas projects in Australia have either commenced production or are about to start-up. It seems fitting to review some of the integrity issues that have arisen during these years in the hope this will spark innovative thinking in areas of coatings, chemicals, wet parking pipelines, management of limited corrosion allowance, cleaning equipment to host, etc. A brief overview of these issues is presented to help initiate a conversation about how industry can look to improve itself and to stimulate thinking needed to lower costs and make subsea projects in the 21st century a more profitable area to invest.

Commissioning of Hydraulic Systems

Tim Dallas, Business Development Manager - Oil & Gas, Pressure Dynamics International

Almost all subsea production systems have hydraulically actuated safety critical systems incorporated into their design, these extend from simple process control tasks to more critical emergency shutdown systems. Each system, subsystems and even individual components can have differing requirements with respect to preservation, commissioning and start up that will impact their operability and ultimately life of service. This presentation provides an overview of some of the considerations required when commissioning the various hydraulic componentry commonly found in subsea equipment and related power & control systems, giving examples of when things can go wrong.

Integrated Start-up

Andrew Duff, Principal Engineer - Pigging and Precommissioning, Wood Group Kenny

Integrated start-up refers to the process where the production fluids are used to dewater a pipeline or network of pipelines using production fluids. The process removes the requirement for dewatering using air or Nitrogen. Integrated start-up is typically suitable for in-field systems but not dry gas trunklines that need to be dried prior to the injection of gas. Integrated start-up has economic, technical and safety advantages by removing the requirement for offshore vessel based compression spreads. The technical advantages are particularly important for fields in deep and ultra-deep water where long "downlines" connecting the vessel to the assets are required to deliver the gases.

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