Honeywell

Operational Readiness for LNG

Wednesday 23 September, 2009

PROGRAM

Venue:

8.00am	**Registration**
8.25am	**Welcome** Brian van Bueren, Honeywell
8.30am	**Simulation of LNG Assets Through the Entire Project Lifecycle** **Ross Cargill, Advanced Controls and Simulation Lead, Honeywell** The additional benefits of dynamic simulation of process and of controls in greenfields projects are now well recognised, beyond their initial operator training benefits. This is particularly true for the LNG industry. The benefits of earlier, safer startup and faster attainment of nameplate rating are enabled by identifying and resolving process, controls and operational issues well before startup. The lifecycle approach extends simulation practice earlier and later into the project life cycle, to obtain greater benefits and efficiencies.
9.15am	**Challenges with Mega Projects** **Michael Viljoen, Project Services Manager, Browse LNG Development, Woodside Energy** Mega Projects are becoming an increasing reality for many of oil and gas companies. Understanding the demands and recognising the risks and challenges that mega projects will impose on those directly involved and those who will feel their influence through changes in the physical, environmental, labour and political spheres will be important to realise more successful outcomes.
10.00am	*Morning Refreshments*
10.30am	**Operator Effectiveness for LNG** **Bob Weiss, Principal Consultant, Safety and Advanced Applications, Honeywell** An abnormal situation occurs on a process plant when the operator must intervene or override the control system. Abnormal situations occur for a variety of reasons, such as a rate change, feedstock change, equipment failure or plant trip. A typical LNG plant will require multiple operator interventions per shift, and it is therefore important that these be handled effectively. The ASM Consortium estimates that ineffective management of abnormal situations results in lost opportunity costs of between 3 and 15%. This introductory presentation will discuss the elements of effective abnormal situation management including alarm management, graphic display design, control room layout, the operating environment, training and effective and accessible procedures. Major capital projects present particular challenges in implementing effective abnormal situation management from day one, and some tips will be presented on how to overcome these challenges.
11.15am	**Production Optimisation for LNG Operations** **Hendrik Alberts, Senior Advanced Process Control Engineer, Honeywell** Advanced Process Control (APC) is a control technology widely deployed in the LNG industry to increase throughput, improve yields and decrease operating costs. The LNG industry has a number of operational challenges that are well-suited to APC. Examples include management of gas production and treatment, pipelines, fractionation, stabilisation and LNG. Hendrik will also present on key aspects of APC technology and real time optimisation. Case studies will also be presented.
12.00pm	*Lunch*
1:00pm	**Operational Excellence in LNG** **Bill Bent, Director Advisory, PricewaterhouseCoopers** Australia is in the midst of an unprecedented growth phase in LNG development and production, which will build on the success of the NWS. As companies move through the phases of developing and building these mega LNG projects into operation, where are the opportunities likely to be for developing Operational Excellence both in Project execution and Operations?

2:00pm	**LNG Supply Chain Management**
	Ian Hollingworth, Business Development Manager, Honeywell The supply chain for LNG (and related by-products) comprises gas production, pipelines, liquefaction plants, carriers and receiving terminals. Significant economic value can be captured with improved co-ordination, optimisation and adaptability within the supply chain. This presentation examines the challenges typically associated with LNG supply chain management with reference to a case study that represents current best practice.
2.45pm	*Afternoon Refreshments*
3.15pm	**Security Convergence – The Safety and Security Aspects of Major Hazardous Facilities**
	Chandler Comerford, Director, Vulnerability Assessment Group This presentation will address why incorporating security hazard identification studies into concept selection, basis of design and FEED provide safer and secure facilities and how managing security convergence in Information Technology and Control Systems provides a roadmap for the future of major hazardous facilities physical and logical security management.
4.15pm	**Summary**
	Brian van Bueren, Honeywell
4.30pm	**Close**