

## **Wells Expert Committee (WEC) and IADC overview**

## **Well Control and BOP discussion**

**IRF meeting 4<sup>th</sup> and 5<sup>th</sup>  
October 2011, Stavanger**

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## Well engineering design and well operations management GIRG recommendations



- A 3 tier-review process
- Recommend to industry and regulators that they insist upon a “two (independent and physical) barrier” policy during the life of the well
- The promotion of human competence management systems to ensure individual staff and management teams always have the skills they need
- The promotion of a culture that fosters adherence to standards and procedures
- Recognition of existing agreed standards – both international and national – as a baseline for industry improvements
- New and improved technical and operational practices for the overall governance of well construction – under OGP direction

## Progress – Wells Expert Committee

The WEC is an OGP standing committee and now consists of **30** experts from the oil & gas industry and service companies, who can call on each OGP member's specific expertise if needed

**Four** task forces are working on:

1. Database of well incidents
2. BOP reliability and technology development
3. Human factors – training, competence and behaviours
4. International standards



## Timeline – Wells Expert Committee

**JUNE 2011:** WEC founded following publication of the GIRG Deepwater Wells report

**AUGUST 2011:** WEC holds its third committee meeting and formalises the setup of four taskforces to deal with specific areas

**OCTOBER 2011:** WEC issues surveys and questionnaires to the industry to gather data and progress recommendations on training programmes

**Q2 2012:** WEC expects to report on progress

## Progress – well control incident database



### Objective:

To **improve the sharing of lessons learned** amongst OGP members relating to well control events

### Well control events are considered to be:

- **Uncontrolled flow** of well fluids to the environment including flow to subsurface formations
- A closure of an element of BOP equipment due to **loss of primary well control**
- An **incident or near-miss** related to well control where the lessons learned could be of interest to other OGP members
- Or equivalent incidents

## Progress – well control incident database



### Deliverables:

- A **process** for collecting well control incident data from member companies
- The **sharing** of significant lessons learned in the form of a well incident alert
- A well control incident **database** which will be able to show trends
- The schedule of the Task Force is to start sharing well incident events by **end Q1 2012** and to have the database operational by **end 2012**

## Progress – Human Factors Task Force – training, competence & behaviours



### Objective:

Step change in competence & behaviours of Operations teams in well control for the global oil & gas industry

- A clear challenge is how to influence our global industry
- We are currently exploring the possibility of using the existing vehicle of well control training, examination & certification which influences worldwide wells teams from assistant driller upwards



## Progress – Human Factors Task Force – training, competence & behaviours



### Proposed strategy:

1. Implement behavioural change – e.g. crew resource management (MID 2013)
2. Competence assessment & assurance (MID 2013)
  - Maximum use of existing industry enhancements – e.g. OGP Sub-Com, WLCPF & IADC
  - Must be driven by operators, critical OGP role as the 'voice of the industry'



## Progress – international standards

- Terms of Reference prepared
- List of relevant API, ISO, NORSOK etc. standards drafted
- WEC prioritisation of key standards offered to ISO/TC67
- Propose OGP budget funding to support ISO standards work
- OGP input to EU Commission workshop on standards
- OGP input to IRF prioritised topic on standards and best practices



## Progress – BOP reliability

- Task team formed with members from manufacturers, drilling contractors and operators to identify BOP reliability and efficiency improvement opportunities
- Opportunity to work closer with regulatory bodies to develop clear definitions and expectations regarding BOP reliability
- Initial assignment: respond to IRF request to OGP and IADC to look into possibility of BOP evaluation to address reliability, integrity and vulnerability



## Progress – BOP reliability

Two separate (but similar) surveys developed to lead effort on BOPs:

- Operators – distributed/collected by OGP
- Rig contractors – distributed/collected by IADC

**As requested by IRF, these surveys will focus on:**

- Functionality (design review, testing procedures, modifications)
- Integrity (secondary control systems testing, function and pressure testing, maintenance and repair)
- Vulnerability (verification of function/activation, ability to maintain barrier)



**OGP**

## Progress – BOP reliability

- Intent of surveys is to establish benchmark of current “state of industry” regarding BOPs, gauge efforts undertaken in response to recent events
- Information collected through the surveys will serve as starting point to determine pathway forward for refinement and improvement to BOP systems and further WEC BOP Reliability Task Force activities and recommendations

## Progress – Wells Expert Committee

- A further general survey for promoting the work of the WEC and the GIRG Deepwater Wells report is currently undergoing final review/approval process
- Assistance in forming the questionnaires by leading academics

## Key conclusions

- Action on **prevention** will yield the most effective outcomes
- Implementation of **GIRG recommendations** by OGP member companies and associate members will improve industry prevention and intervention capabilities – and OGP will encourage their wider adoption.
- An **on-going commitment from the industry** is required to work together for continuous improvement in skills development, competence and a culture of compliance.
- Active **co-ordination and collaboration** with NOIAs, the MWCC Project, other private contractors and various international entities is essential.