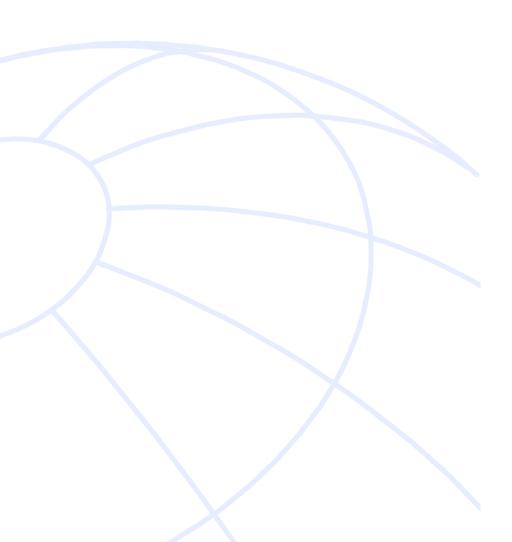
OGP



The International Association of Oil & Gas Producers

Representing the upstream industry around the world since 1974

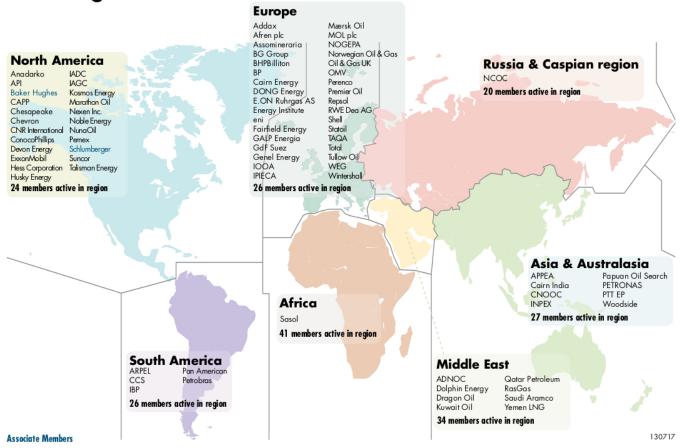
Progress of collaborative efforts to prevent and respond to major incidents

International Regulators' Offshore Safety Conference, Perth, 22nd October 2013

Some 80 members around the world



Base region of Members



Vision

OGP

 To work on behalf of the world's oil and gas exploration and production (E&P) companies to promote safe, responsible and sustainable operations.

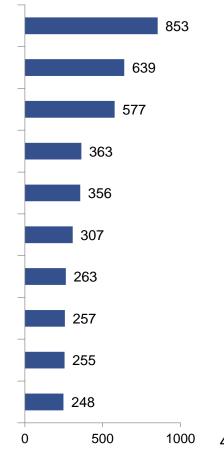
Publications



Most downloaded publications over 3 months

(May 1 – Aug 1, 2013)

Report No.	Report name
2012s	Safety & Health performance indicators - 2012 data
459	Life-Saving Rules
456	Process safety – recommended practice on key performance indicators
2011s	Safety & Health performance indicators - 2011 data
449	Environmental management in Arctic oil & gas operations - good practice guide
415	Asset integrity – the key to managing major incident risks
2011e	Environmental performance indicators - 2011 data
n/a	Factsheet: Oil & natural gas: the basics
459_4	Life-Saving Rules – A1 poster of all 18 Rules
485	Standards and guidelines for drilling, well constructions and well operations



OGP represents the upstream industry before a number of organisations

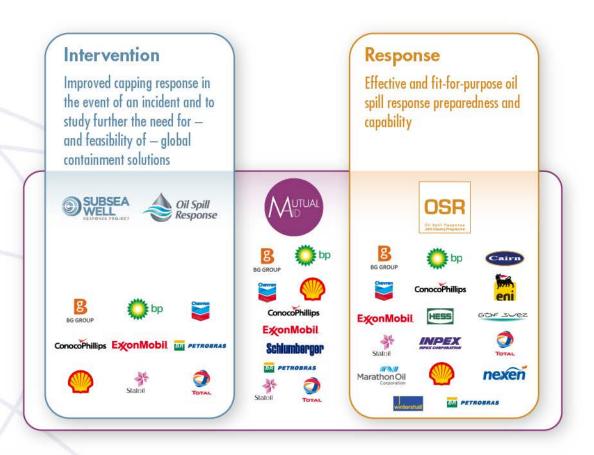


- The organisations include:
 - Barcelona Convention
 - Commission for Sustainable Development
 - EU
 - Helsinki Commission
 - IMO
 - International Regulators' Forum
 - International Whaling Commission
 - ISO
 - OSPAR
 - World Bank

Global Industry Response Group Prevention of and response to major offshore well incidents







Well incident prevention International standards



Framework

- EU/US sanctions continue to block major ISO/TC67 work for API and OGP members
- OGP and API have established a Joint Task Force to identify potential solutions for preserving a single set of international standards
- Meanwhile, OGP is hosting a number of sanctions compliant international standards development groups
- Draft International Standards (DIS/FDIS) are sent to ISO for balloting/ issuing
- API standards work continues unrestricted, but is not available for the OGP hosted international standards development pending clarification from US regulators (i.e. OFAC)

Well incident prevention International standards



Accomplishments by OGP hosted group (well safety related only)

- 5 draft standards delivered to ISO
- 4 standards in drafting with 15-20 experts working on each

Next steps

- Work and complete safety critical international standards that are independent of API input
- Resolve restriction on API input, based on US regulator response, to mitigate risk of a dual set of standards emerging for international applications

Well incident prevention Training, Behaviours & competence



Phase 1

- Define & recommend enhancements for existing global Well Control Training, Examination & Certification, OGP Report #476 issued Oct 2012
- Recommendations are embraced by IADC WellCAP and IWCF; primary objective of single Well Control Standard is being achieved

Well incident prevention Training, Behaviours & competence



Phase 2

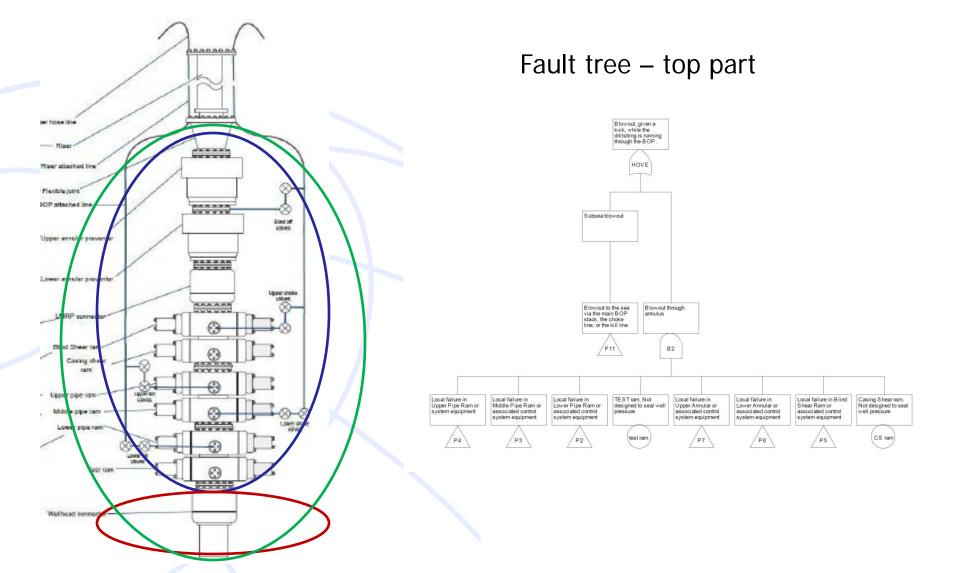
- Syllabus delivered by Aberdeen University:
 - OGP Well Operations Crew Resource Management (WOCRM) Training Syllabus
- Work programme for development of a training standard from the syllabus

Phase 3

 Define & recommend competence assessment & assurance tools: Draft international standard at ballot stage by ISO

Well incident prevention BOP technology – fault tree reliability analysis

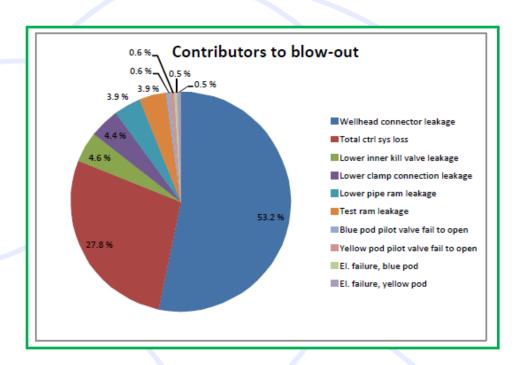




Well incident prevention BOP technology – fault tree reliability analysis



The Safetec study has assessed the relative contribution to risk of a blow-out from equipment.



- For the BOP system
 as defined in
 ISO 14224,
 i.e. including the
 connector to the
 Wellhead, the indicated
 reliability is of the order of
 SIL 2.
- sub-unit to the BOP system that has no role in shutting-in the well. For the BOP system without the connector the indicated reliability is of the order of SIL 3.

Well incident prevention BOP technology – fault tree reliability analysis



Conclusion

- Challenge
 - Maintaining the specified SIL level during the operating life of the BOP
- Main indicated areas for improvement
 - The control system, which is the BOP subunit which fails most often when tested;
 - The wellhead connector, which is the most important subunit in term of 'component importance'.
- Required
 - Better Collection of data related to failures of subunits and of their component/maintainable items or their Parts (taxonomy levels 6, 7, and 8 of ISO 14224)
- Critical areas not covered by the analysis
 - Reliability of critical subunits, including shear rams' ability to seal under adverse conditions

Well incident prevention Well control incident database



Accomplishments

- Well Control Incidents Database was launched July 31st 2012
- "OGP Well Control Incident Web Site" went live in April 2013
- 15 incidents in database, issued as alerts to OGP members

Next steps

 For trending, collection of WCI on an annual basis with the structured process in place for collection of occupational and process safety performance indicators

The Challenge

- Promoting the reporting
- Sharing and learning from events

Well intervention Capping

Key objectives on capping achieved

Design a capping toolbox with a range of equipment to allow wells to be shut in

Design additional hardware for the subsea injection of dispersant

Assess and implement deployment option



4 x capping toolboxes constructed



2 x subsea injection, BOP manual intervention, and debris clearance



























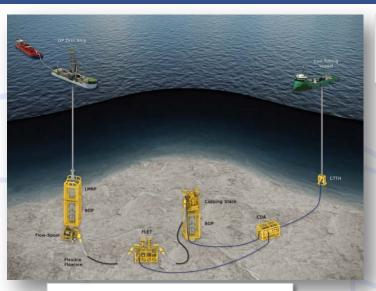






Well intervention Containment

OGP



Containment Guidelines

Well planning

installation

Offshore

Technical specifications

System operations

Functional specifications

Emergency disconnect

System mobilisation

Decommission ing

Standard Industry Hardware

Containment Toolbox



- 1. Flow spool with subsea test tree latch
- 2. Coiled tubing termination head (CTTH)
- 3. Flowline end termination (FLET)
- 4. Innovative side-entry flow spool

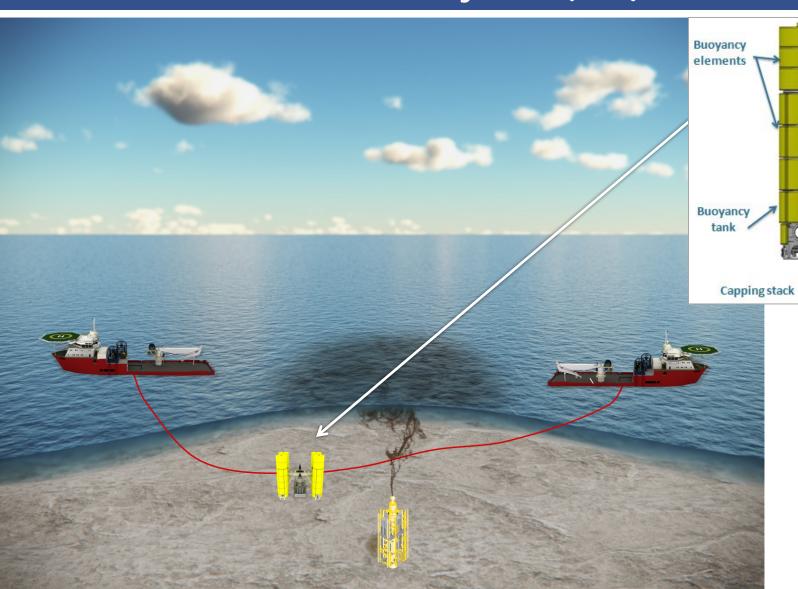


Mutual Aid

Well intervention Offset Installation System (OIS)



Cardan joint



Oil spill response Oil Spill Response JIP



- Effective and fit-for-purpose oil spill response preparedness and capability
- 18 work items
- Planned project end ultimo year 2014
- Results captured in the form of good practice guidelines divided into four areas:
 - Strategy (3 docs);
 - Preparedness (5 docs);
 - Response (12 docs);
 - Impacts (3 docs)

Oil Spill Response JIP 12: 23 Good Practice guides



		Cohort requested/engaged	Consultant selected	Contract awarded	SoW defined	ToC agreed	First draft	Cohort review	Consolidated final draft	Layout & Publishing	Approval: OSWG & OGP EC	Approval: Governance Committee	Posted on website	
1	Strategy	Framework document												
		Incident Management Strategies												
		Net Environmental Benefit Analysis												
2		Contingency Planning												
	Duamanadhaaa	Sensitivity Mapping												
	Preparedness	Tiered Preparedness & Response												
		Training												
3		Exercise Planning Surveillance												
		Dispersants: Sea surface												
	Response	Dispersants: Subsurface												
		Mechanical Recovery												
		In-Situ Controlled Burning												
		Shoreline Response Planning and SCAT												
		Shoreline Cleanup Techniques												
		Inland Responses												
		Waste Management												
		Oiled Wildlife Management												
		Environmental Assessment and Restoration												
		Economic Assessment and Compensation												
		Responder Health and Safety												
4 Impact	Impacts	Impacts on Marine Ecology												
	illipacts	Impacts on Shorelines												

OGP/IPIECA Seminars



IPIECA-OGP Oil Spill Response Joint Industry Project (OSR-JIP) Seminar: JIP Program Update and Upstream Risk Assessment and Response Resource Planning (JIP 6)

Date - Thursday 24 October 2013

Venue - QV1 Theatrette

Time – 12:30 pm (light luncheon provided) for a 1.30 pm start – 4:00pm (followed by afternoon tea)

Cost – No Cost, however numbers are limited, so please register early.

Registration should be undertaken directly via an email request (providing name, organisational and contact details and any special dietary requirements) to the following address with the Subject Line: "JIP Seminar Registration – QV1":

dhills@appea.com.au

Offshore petroleum technical seminar: Acoustic impacts and marine life

Date - Thursday 24 October 2013

Venue – QV1 Theatrette. Level 2, 250 St Georges Terrace, Perth

Time - 08:30 - 12:00

Cost - \$250.00

Registration via http://irfconference2013.com.au/registration/

Mutual Aid in Large-Scale Offshore Incidents

OGP

Mutual Aid guidelines

- A framework for the offshore oil and gas industry
- defines some terms related to mutual aid
- lays out some guiding principles
- outlines a common process
- highlights some of the issues likely to be encountered
- offers some practical measures to enhance and sustain mutual aid arrangements
- is targeted for use by operators and local industry associations in consultation with regulators



Mutual Aid in Large-Scale Offshore Incidents

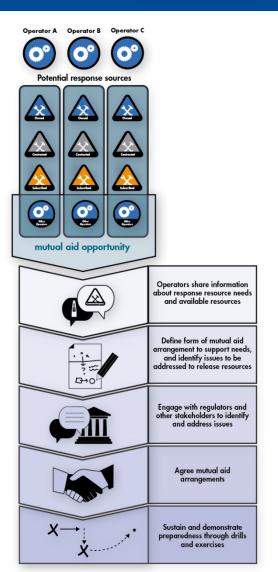






A conceptual process

- Systematic risk assessment and resource identification
- Information sharing to identify mutual aid opportunities
- Cooperative dialogue to define appropriate mutual aid arrangement
- Engagement with regulators and other stakeholders to identify and address issues
- Cooperative practices to sustain and demonstrate preparedness



Mutual Aid in Large-Scale Offshore Incidents

OGP

Next steps

- Presentation to IADC and IMCA members
- Communicate framework to regional and local operators associations – via OGP website
- Roll out at selected industry conferences

