



## **Bureau of Safety and Environmental Enforcement**

**1<sup>st</sup> BSEE DOMESTIC AND INTERNATIONAL STANDARDS WORKSHOP**

**November 14-15, 2012**

# **2012 Standards Workshop Report**

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## **Acknowledgements**

The workshop was convened under the leadership of Wilbon Rhome, Chief, and Standards Development Section. The idea for the workshop was initiated by Christy Lan, who worked tirelessly to make it a reality. Kumkum Ray, David Izon and Julian Pham put in considerable time and effort in the coordination and organizational aspects of the workshop. Rosalyn Worthan was invaluable for ensuring the sign-in process went smoothly and for handling logistics. Many thanks to James Bennett for designing the beautiful posters, Cheryl Blundon for expediting OMB approval for the Workshop Evaluation Form, and Kyle Moorman for obtaining Department approval for the workshop. Sincere thanks to all speakers, moderators, panelists and breakout session participants. Finally, the workshop would not have been possible without strong support from BSEE management and the distinguished professionals of the standards community.

## **Executive Summary**

The Bureau of Safety and Environmental Enforcement (BSEE) convened its 1st Annual Conference on Domestic and International Standards in New Orleans, on November 14 and 15, 2012. The purpose of the workshop was to provide an arena for a collaborative exchange of the multi-faceted aspects of offshore standards development. The goal of the workshop was to jump-start a robust and productive communication process between BSEE and those involved in the American Petroleum Institute (API) standards development, other Standards Development Organizations (SDO's), standards coordinators, and Subject Matter Experts (SME's).

The main focus and objectives of this workshop were as follows:

- To provide an opportunity for API, the American Society of Mechanical Engineers (ASME), the International Association of Drilling Contractors (IADC), the International Organization for Standardization (ISO), the International Oil and Gas Producers Association (OGP), the International Regulators' Forum (IRF), the Center for Offshore Safety (COS) and Classification Societies to present to BSEE their perspective and involvement in standards development;
- To gain an understanding of SDOs' and BSEE's vision of BSEE committee involvement and input into standards documents; and
- To provide SDOs with an update on BSEE regulations and an interpretation of the regulations especially in reference to API documents.

To meet these objectives the workshop agenda included:

- BSEE's goals for the workshop;
- Introduction of BSEE Standards Development group;
- An update on BSEE regulations with a list of possible standards to be incorporated;
- BSEE's role in standards development;
- The BSEE Director's support of BSEE involvement in standards development;
- Updates from BSEE Regional Directors;
- Updates from API and ASME;
- A panel discussion that presented views of IADC, ISO, OGP, COS, IRF and Classification Societies;
- Updates from Standards Subcommittees; and
- Breakout sessions followed by report-out sessions on several key developing standards.

## **Workshop Feedback**

Comments received on the evaluation forms indicate a mixed review of the workshop. While universally applauding the workshop and its usefulness, there was a general sense that the scope of the workshop was too broad to be of much practical value to attendees. Future workshops will focus on fewer topics carrying more depth.

The breakout and report-out sessions received lots of positive feedback but were deemed too short with too many standards crammed into each session to really enable the understanding and resolution of any pending issues. At future workshops we will plan to provide focused discussion sessions concentrating on specific key standards. There were no formal notes taken of the breakout sessions or the report-out. Future workshops will endeavour to capture good notes of all sessions.

Other positives of the workshop were: the presence of an array of diverse panellists; the participation of both domestic (API, ASME, COS) and international organizations IADC, ISO, OGP, IRF and Classification Societies; and the initiation of an active discourse between several API Subcommittees and ASME with regards to boiler pressure codes. The workshop brought together of a very large number of distinguished experts in the field.

## **Workshop Observations**

From Q&A sessions/various discussions:

- The experience and background to understand the source of risk to have performance-based programs.
- How do we handle the “lag” between “new” technology and what’s in code?
- Can BSEE supply the resources to bring new technology into code in a timely manner?
- BSEE is very interested in Arctic Standards Development.
- At future workshops plan to include a policy session.

## **Recommendations**

The following recommendations are culled from the written comments received. All suggestions/recommendations received will be considered in planning future workshops. Workshop evaluations can be found at Appendices C and D.

1. Future meetings should focus more on technical interactive sessions.

2. Continue the well-needed dialogue amongst key organizations/persons to move ahead in promoting safe and sustainable O&G development for the future, and in such a way so as to optimize the allocation of limited human resources on both industry and regulatory sides.
3. BSEE should look out and determine standards development priorities and communicate its expectations regarding standards development to SDOs and the regulated community via annual meetings/workshops.
4. BSEE should plan future workshops/meetings to: (1) help address the issues that face standards development in domestic and international arenas; (2) hold more panel-type discussions; (3) have speakers address specific standards development issues; and (4) have presentations on comparison of standards and case studies with feedback from experts in the field.
5. Include a session to (1) discuss BSEE's vision and strategic plan, and how standards fit into that plan; (2) review options for including standards into the regulatory program along the lines of international regulators who list accepted standards in guidance documents etc.

### **Workshop Presentations**

Workshop presentations can be viewed using the following link:

<http://www.bsee.gov/Regulations-and-Guidance/Standards/Workshops/2012-Standards-Workshop.aspx>

### **Summary of Presentations at the 1<sup>st</sup> BSEE Domestic and International Standards Workshop**

#### **1. Goals of the Workshop by Doug Morris**

This introductory talk outlined the goals and objectives of the workshop as follows:

Goals:

- Discuss BSEE's role in national and international standards development.
- Look for opportunities to increase the coordination and efficiencies in the development of offshore standards.
- Discuss the status of standards that impact OCS activities.

Objectives:

- Provide a central meeting ground to bring together professionals involved in developing domestic and international standards and those who implement the standards.
- Provide the opportunity for an informal exchange of ideas.
- Increases the understanding of the standards development process.
- Create a better understanding of roles and expectations of various stakeholders.
- Provide an update on current and future standards activities.
- Provide an opportunity to identify gaps in standards or regulations.

## **2. Agenda Outline by Wilbon Rhome**

This talk focused on the workshop expectations which were:

- To encourage people to start a conversation.
- To be open, expressive and communicative.
- To be a starting point to start discussions.

## **3. Reorganization by Kumkum Ray**

This talk focused on:

- BSEE's strategic goal for FY 2012 through 2015 is to create a robust and stable regulatory system so that exploration and development on the OCS will be conducted safely.
- Recent recommendations by the Inspector General, the Transportation Safety Board, and National Academy of Engineering recognized the importance of keeping abreast of international standards, increase internal expertise and formulate a more efficient regulatory process.
- The Standards Development Section has been tasked to:
  1. Collaborate with standards organizations and the international community in the development of new or revised standards for safety and environmental protection; and
  2. Minimize the time BSEE takes to identify and incorporate the best industry practices into its regulatory program.

## **4. BSEE Regulatory Update by Amy White**

This presentation focused on:

- Organizational changes since MMS' inception to the reorganization after the BP incident and formation of BSEE.
- How BSEE communicates with lessees via Regulations and Notices to lessees.

- Regulatory and Notices to lessees processes.
- Information sources for rules.
- Discussions on safety regulations, final safety measures rule, SEMS II rule, and standards incorporated in recent final rules.
- Also, discussed standards being considered for future rules.

## **5. Standards Development: BSEE Perspective by Doug Morris**

This presentation highlighted the following:

- BSEE's interactions with standards development organizations.
- Documents incorporated by reference.
- Mandate to develop voluntary consensus standards when consultation and participation is in the public interest and is compatible with the agency's missions, authorities, priorities, and budget resources, under the **National Technology Transfer and Advancement Act** (Pub. L.104-113).
- Discussed Office of Management and Budget (OMB) Circular A-119 that required federal participation in standards development.
- OMB Circular A-119 policies and perspectives.

## **6. API Standards and the Standards Development Process by Roland Goodman API**

This presentation focused on:

- API history and organizational structure
- Standards development process
- Standards committee structure and organization
- Format and style guide
- Global standards update

## **7. GOM Regional Update by Lars Herbst**

**This talk covered the following topics:**

- Gulf of Mexico deep-water rig forecast
- Gulf of Mexico new deep-water rigs 2013-2014
- New deep-water development activity and
- Gulf of Mexico interest

## **8. Pacific OCS Region Update by Jaron Ming**

**This talk covered the following topics:**

- Regional organization and Overview
- Pacific OCS daily and cumulative production
- Pacific OCS Region structures by age

- Aging infrastructure
- Facility inspection strategy and Pipelines

## **9. Alaska Region Update by Mark Fesmire**

### **This talk covered the following topics:**

- Arctic specific standards – collaborative efforts
- Discussed Arctic council working groups
- Barents 2020 project
- Regulators’ use of standards (March 2010 report)

## **10. ASME Codes & Standards Development: Offshore Oil and Gas Application by ASME representatives Gerry Eisenberg, Louis Hayden Jr. and Robert J. Appleby**

This presentation focused on:

- Voluntary consensus standards
- ASME/BSEE Partnership
- Current Codes & Standards Programs
- B31.8 Gas Transmission & Distribution Piping Systems
- B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
- B31.8S Managing System Integrity of Gas Pipelines
- B31Q Pipeline Personnel Qualification and
- Other ASME Codes & Standards Applicable to BSEE

## **11. SAFETY AT ALL LEVELS, AT ALL TIMES – BSEE DOMESTIC AND INTERNATIONAL STANDARDS WORKSHOP - DIRECTOR, JAMES A. WATSON**

The Director’s speech highlighted BSEE’s focus on raising the safety bar for the industry:

- Standards development continues to be extremely important:
  - Enhanced safety requirements following *Deepwater Horizon*.
  - Enhanced requirements following Hurricanes Katrina and Rita.

- New technologies for high temperature / high pressure.

Director Watson stressed the importance of BSEE's involvement:

- BSEE is active in standard setting bodies.
- Domestic: Keep pace with technical advancement.
- International: Contribute to high level of safety and environmental performance.

Director Watson's speech was well received by the industry; and his interaction with the audience was well appreciated by both BSEE and industry.

## **12. JOINT BSEE/API WORKSHOP – API OFFSHORE STANDARDS UPDATE (SC2)**

The speaker started his talk first with a summary and then gave an update on numerous new and reaffirmed documents:

SC 2 Offshore Standards Summary:

- 34 documents (RPs, Specs, Bulletins).
- 13 task groups currently active.
- Five categories of documents Complete structural system (e.g., jackets, TLPs):
  - Components of a system (e.g., mooring, cranes);
  - Materials (e.g., steel metallurgy);
  - Design requirements (e.g., metocean, geotech); and
  - Inspection/Service (e.g., assessment).

The remainder of the presentation focused on updating the audience on new and reaffirmed documents; see presentation for additional details.

## **13. SUB-COMMITTEE (SC6) UPDATE**

SC6 overview:

- Second draft ready for user review in January 2013.
- SC6 maintains standards, recommended practices and technical reports associated with wellhead and tree equipment and pipeline valves.
- SC6 Document Breakdown:
  - 4 Product specifications.
  - 4 Validation specifications.
  - 2 Recommended practices for product operation and maintenance.
  - 9 Technical reports.
- Recent activities have been related to document maintenance, materials, design validation, manufacturing quality, field testing, repair/remanufacture and documentation.

The speaker goes on to discuss a number of addendums, and ballot resolutions. Additionally, the speaker highlighted the progress API Spec 6D, API 6AV1, API 6DX, and numerous other standards as well as the adoption of ISO 12490.

#### **14. CEMENTING RELATED STANDARDS API RP 10B-3, API RP 10B-4 & API RP 10F**

This talk discussed several very interesting topics.

RP 10B-3: Testing of Deepwater Well Cement Formulations:

- Work Groups formed to revise RP 10B-3 to enhance testing methods for cementing in deepwater environments at any depth below mudline.
- Substantial modifications include:
  - Recommendations on mathematical temperature modeling and methods for determining well simulation thickening time and compressive strength test temperature and pressure ramps based on specific well conditions;
  - Considerations for heat-of-hydration & thermal mass effects in large annuli;
  - Provisions for simulating rig surface mixing conditions in laboratory testing; and
  - Improved compressive strength and static gel strength test methods.
- Second draft ready for user review in January 2013

The speaker goes on to discuss the 10 series documents which are very informative; for additional detail please visit the site where the presentations are posted.

#### **15. BSEE STANDARDS WORKSHOP SUB-COMMITTEE (SC16)**

This talk presented a bird's eye view of SC16 and its interworking:

SC 16D Standards and Recommended Practices:

- Method C calculation method will be used and pressure evaluated at the pump start pressure.
  - Allowances for dedicated HP shear accumulators.
  - Note also that the required shear pressure is included, something that has not been (explicitly) required before.
- The proposal for land rigs received good comments in that it was simplistic. It was suggested that stack classifications as listed in S53 be used to formulate requirements, as rigs can range from a class 2 without shear rams to a class 5, matching the capabilities of a surface stack.

The speaker goes on to give very useful and insightful information about API RP 16Q, API Spec 16R and API Spec 16F as well as many other documents that are part of the 16 series.

## **16. API SUB-COMMITTEE (SC17) INDUSTRY STANDARDS FOR SUBSEA EQUIPMENT**

This talk discussed all of the 17 sub-committees in great detail. Also discussed were:

Standards development and Management:

- Drivers for revised subsea documents;
- Evolution of standardized technologies and practices;
- Broadening of performance envelopes;
- Additions/modifications to address technical issues; and
- Enhancements to analytical methods/reliability etc.

## **17. BSEE 1<sup>st</sup> ANNUAL INTERNATIONAL AND DOMESTIC STANDARDS WORKSHOP API SUB-COMMITTEE (SC18)**

This presentation focused on the revision of the Q1 Standard.

Revise Q1 independently of TS29001 while meeting or exceeding the requirements of ISO 9001. Re-write is intended to obtain alignment in structure and language with API Q2. New sections in Q1 include:

- Risk Assessment and Management;
- Contingency Planning;
- Critical / Non-Critical Supplier Identification and Control;
- Product Quality Plans; and
- Management of Change

Task Group-03 API Monogram Program Improvement:

Task Group-03 has identified a need for additional “Categories” for licensing under the API Monogram Program for each API Product Specification:

- Product Manufacturer;
- Processor;
- Assembler; and
- Tester.

Task Group-5 API Spec Q2

- Identifies expectations and intent on requirements;
- Provides guidance to Industry for implementation; and
- Utilized to train API Auditors / Staff.

## **18. API SUB-COMMITTEE (SC19) COMPLETION EQUIPMENT**

This talk touched upon many different standards and their status and provided contact persons which made it very difficult to summarize in just a few bullets points. Therefore, it is suggested that any interested parties go directly to the presentation for more detailed information.

## **19. OUTLINING API DRILLING AND PRODUCTION OPERATIONS STANDARDS**

This was a very interesting presentation and it focused on:

Drilling Production Operating Systems Standards:

- Currently 48 Documents 17 currently under revision.
- Currently 6 new documents drafted from scratch.
- 21 Documents requiring a Standards action in 2012.
- 4 Documents will be voted on to obtain a 2 year extension.
- 4 documents requiring a Standards action in 2013.

API RP 2D, Operation and Maintenance of Offshore Cranes:

- 6th Edition Published in May 2007.
- Vote for 2 year extension soon.
- Under revision.
- Last workgroup meeting was held on October 18<sup>th</sup>.

## **1<sup>st</sup> BSEE DOMESTIC AND INTERNATIONAL STANDARDS WORKSHOP PANEL DISCUSSION**

This section involved interaction with the audience. The panel discussion was moderated by Joe Levine of the Bureau of Safety and Environmental Enforcement (BSEE)

## **20. INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS (IADC) USE OF STANDARDS**

This presentation highlighted IADC's use of industry domestic and international standards:

IADC's use of Standards:

- IADC is NOT a Standards Developing Organization.
- IADC does however, identify Standards activities affecting its membership (e.g., API, OGP, ISO, class) and encourages member participation.
- IADC has developed and is continuing to develop standards for best practice guidance on HSE case development specifically for MODUs etc.

## **21. ISO/TC67 UPDADE – TOGETHER FOR THE WORLD**

This international presentation covered:

ISO/TC67 Objectives and Scope:

- Provide a grounding to participate on ISO/TC67 activities as input to the breakout sessions.
- Explain where ISO/TC67 fits in today's world.
- Standardization of the materials, equipment and offshore structures used in the drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.

## **22. BSEE INTERNATIONAL & DOMESTIC STANDARDS WORKSHOP COS CENTER FOR OFFSHORE SAFETY STDS, DOCS, BEST PRACTICES**

This presentation covered several interesting topics including COS' mission:

COS Mission:

Promote the highest level of safety for offshore drilling, completions, and operations by:

- effective leadership,
- communication,
- teamwork,
- safety management systems, and
- Independent 3rd-party auditing & certification.

COS Core Functions:

- Data collection, analysis and reporting.
- Lessons from major and high potential severity incidents.
- Safety performance indicators.

COS SEMS Toolkit:

- Audit Protocol Checklist.
- Compliance Readiness Worksheet.
- Operator-Contractor Letter Templates.

## **23. INTERNATIONAL REGULATORS' FORUM GLOBAL OFFSHORE SAFETY**

This talk discussed:

Terms of reference and ways of working with the IRF:

- To promote best sustainable safety standards
- To enable an exchange of information between regulators

- To provide a network of health and safety regulators for mutual support and advice

Annual plenary meetings are extremely beneficial. Periodic conferences are also held.

Involvement of IRF in setting standards and best practices:

- Paper presented at IRF Summit Conference, Stavanger, 4/5 October 2011
- Impact of Montara and Macondo incidents drive us to improve consistency of safe practice worldwide, particularly in the drilling community.

## **24. BSEE WORKSHOP ON DOMESTIC AND INTERNATIONAL STANDARDS -OGP**

This presentation focused on explaining to the audience what OGP is about.

What is OGP?

- Serving 75 members around the world.
- OGP's membership includes upstream companies, national and international associations and major contractors – some 40% are either US-based or operate in America.
- OGP's member companies produce over half of the world's oil and over a third of its gas.

OGP position on standards - OGP is not a Standards Organization:

- OGP's goal is to foster the development of standards on an international level for the broadest possible application.
- The aim is to produce one set of words: "Do it once, do it right, and do it internationally."

## **25. DEVELOPMENT OF CLASSIFICATION RULES - ABS**

This talk touched upon the following topics:

Classification:

- Focus on the safety of human life, asset and environment
- Main objective: verify structural strength and integrity, and reliability of systems that maintain essential services on board etc...

Class Societies:

- Independent, self-regulating, externally audited
- Technically competent, self-funded organizations
- Not controlled by and with no commercial interests on design, construction, ownership, operations, management, maintenance, insurance, chartering, financing.

# APPENDIX A

## List of Attendees

BSEE	14-Nov	15-Nov	INDUSTRY	COMPANY	14-Nov	15-Nov
Adams, Chris		X	Alaniz, Sarah	ABS	X	
Ashfaq, Mohammad - BOEM	X	X	Appleby, Robert	PL Experts	X	
Barbre, Paul		X	Baniak, Ed	API	X	X
Bell, Theresa	X	X	Bednar, John	BP	X	X
Bertrand, Vanessa	X	X	Biasotto, Paulo	BV	X	X
Breaux, Glynn	X		Bond, James	ABS	X	X
Brink, Fred		X	Briggs, Michael	Cameron	X	
Butts, Joe		X	Brown, Simon	IRF	X	X
Calero, Alicia	X	X	Brunjes, Jean	GE O&G	X	X
Carroll, Rob	X		Buescher, Frank	API	X	X
Carter, Lynamd	X	X	Burkle, Katie	API	X	X
Coco, Ben	X	X	Bruton, Jeff	EN (?)	X	
Conner, Mike	X	X	Busby, John	Chevron	X	X
Cousins, Michael	X	X	Carmichael, Pisces	Lloyd's Register	X	X
Dessauer, Steve	X	X	Chance, Maynard	WEST - LR	X	X
Domangue, Bryan	X	X	Coe, David	HESS	X	
Driver, Dave		X	Comeaux, David	GE O&G	X	X
Dull, Jeffrey	X	X	Cummings, Richard	API	X	X
Falk, Sid	X	X	Danenburger, Bud	Consultant	X	X
Fesmire, Mark	X	X	Deustch, Dennis	??	X	
Gobert, Angie	X	X	Driver, Dave	BP	X	
Guidry, Troy	X		Edwards, Michael	BP	X	X
Hall, Joan	X		Eisenburg, Gerry	ASME	X	
Hasenkampf, Mark		X	Feijo, Luiz	ABS	X	
Hassenbacher, Fung	X	X	Fett, Darryl	Total E&P	X	X
Herbst, Lars	X	X	Frazelle, Andy	BP	X	X
Hosch, Peter	X	X	Frazer, Ross	API/OOC	X	X
Hoshman, Russell	X	X	Freeman, Austin	BP	X	X
Izon, David	X	X	Ghaey, Shail	API	X	
Jacobs, Fred	X		Ghoneim, Abdel	Atkins	X	X
Johnson, Byron	X		Girouard, Margot	Apache	X	X
Johnson, Kelly	X		Goodman, Roland	API	X	X
Kapisis, Tommy	X	X	Gordon, Joe	Chevron	X	X





**APPENDIX B**  
**WORKSHOP AGENDA**



# 1st Annual BSEE Domestic and International Standards Workshop

## FINAL AGENDA

**Please bring a Government Issued Photo Identification upon arrival for visit. You will receive badges.**

Day 1: November 14<sup>th</sup>, 2012

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8:00 a.m. – 8:50 a.m. 9:00 a.m. – 9:30 a.m.	<b>Check-in</b> <b>Introduction</b> Welcome, GOM RD Safety Moment <i>Regulations &amp; Standards(RSB)</i> Meeting Goals <i>BSEE Management</i> Meeting Outline ( <i>RSB</i> )	GOM Main Conference Room
9:30 a.m. – 10:00 a.m.	<b>BSEE Update</b> Reorganization <i>BSEE Management</i> New Regulations/NTL's <i>BSEE Management</i> BSEE's Position on API Participation and Incorporation of Documents <i>BSEE Management</i>	GOM Main Conference Room
10:00 a.m. -10:30 a.m.	<b>API Update</b> Update on API Document Development Process <i>API Management</i> API's vision of BSEE Participation <i>API Committee Members</i>	GOM Main Conference Room
10:30 a.m. – 10:40 a.m.	<b>Break</b>	
10:40 a.m. – 11:10 a.m.	<b>Regional Updates</b> Update from GOM, Pacific, Alaska <i>Regional Managers</i>	GOM Main Conference Room
11:10 a.m. – 11:50 p.m.	<b>ASME Update</b> Update on standards related to offshore oil and gas <i>ASME Management</i> ASME's vision of BSEE Participation <i>ASME Management</i>	GOM Main Conference Room
11:50 a.m. – 1:00 p.m.	<b>Lunch</b>	<i>Everyone on their own</i>
1:00 p.m. –1:20 p.m.	<b>Director's Remarks</b>	GOM Main Conference Room
1:20 p.m. – 2:20 p.m.	<b>Subcommittee Updates</b> SC 2: Subcommittee on Offshore Structures (15 min) SC 6: Subcommittee on Valves and Wellheads (15 min) SC 10: Subcommittee on Well Cements (10 min) SC 16: Subcommittee on Drilling Well Control Equipment (15 min) Brief Discussion / Question (5 min)	GOM Main Conference Room
2:20 p.m. – 2:35 p.m.	<b>Break</b>	
2:35 p.m. – 3:40 p.m.	<b>Subcommittee Updates, cont.</b> SC 17: Subcommittee on Subsea Production (15 min) SC 18: Subcommittee on Quality (15 min)	GOM Main Conference Room

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SC 19: Subcommittee on Completion Equipment (15 min)  
DPOS Standards (15 min)  
Brief Discussion / Question (5 min)

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**3:40 p.m. – 5:00 p.m.**

**Panel Discussion**

10 minute update on standards development process/importance  
*IADC, ISO, COS, IRF, OGP, Class Society*  
20 minute Q&A *IADC ISO, COS, IRF, ASME, OGP, API,*  
*Class Societies*

GOM Main Conference  
Room

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**5:00 p.m. – 5:10**

**Closing**

Overview to Day 2 program *Standards employee*

GOM Main Conference  
Room

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# 1st Annual BSEE Domestic and International Standards Workshop

Day 2: November 15<sup>th</sup>, 2012  
Breakout Sessions

<b>8:00 a.m. – 8:15 a.m.</b>	<b>Introduction</b> Welcome, Safety Moment <i>RSB Employee</i> Goal of the Break Out Sessions <i>RSB Employee</i>	GOM Main Conference Room
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<b>8:15 a.m. – 9:25 a.m.</b>	<b>Breakout 1</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; background-color: #e6f2ff;">SC 2 Subcommittee on Offshore Structures</td> <td style="width: 33%; background-color: #e6f2e6;">SC 16 Subcommittee on Drilling Well Control Equipment</td> <td style="width: 33%; background-color: #e6e6ff;">DPOS Committees</td> </tr> </table>	SC 2 Subcommittee on Offshore Structures	SC 16 Subcommittee on Drilling Well Control Equipment	DPOS Committees	3 Smaller GOM Conference Rooms
SC 2 Subcommittee on Offshore Structures	SC 16 Subcommittee on Drilling Well Control Equipment	DPOS Committees			

<b>9:25 a.m. – 9:40 a.m.</b>	<b>Break</b>
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<b>9:40 a.m. – 11:00 a.m.</b>	<b>Breakout 2</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; background-color: #e6f2ff;">SC 17 Subcommittee on Subsea Production And SC 6 Subcommittee on Valves and Wellhead Equipment</td> <td style="width: 50%; background-color: #e6f2e6;">SC 19 Subcommittee on Completion Equipment</td> </tr> </table>	SC 17 Subcommittee on Subsea Production And SC 6 Subcommittee on Valves and Wellhead Equipment	SC 19 Subcommittee on Completion Equipment	2 Smaller GOM Conference Rooms
SC 17 Subcommittee on Subsea Production And SC 6 Subcommittee on Valves and Wellhead Equipment	SC 19 Subcommittee on Completion Equipment			

<b>11:00 a.m. – 11:50 a.m.</b>	<b>Subcommittee Report Out</b> <i>Each breakout group will have 10 minutes to provide a highlight of the main discussion topics</i>	GOM Main Conference Room
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<b>11:50 a.m. – 12:00 p.m.</b>	<b>Closing</b>
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<b>12:00 p.m. -1:15 p.m.</b>	<b>Lunch</b>
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<b>1:15 p.m. – 3:30 p.m.</b>	<b>BSEE Standards Section Update</b> <i>(BSEE Employees Only)</i> Proposal for organization of standards section <i>RSB Employee</i> Discussion of the IDP <i>BSEE management or RSB</i> BSEE's needs for new standards <i>RSB Employees/SME</i> Time for general discussion about incorporation of standards into the regulations
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## APPENDIX C

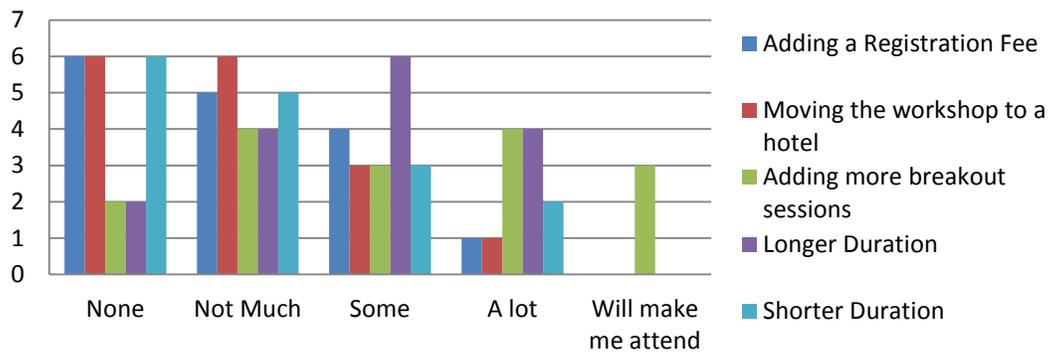
### WORKSHOP EVALUATION ANALYSIS

<b>Workshop Survey Day 1</b>	None	Not Much	Some	A lot	Will make me attend
Adding a Registration Fee	6	5	4	1	0
Moving the workshop to a hotel	6	6	3	1	0
Adding more breakout sessions	2	4	3	4	3
Longer Duration	2	4	6	4	0
Shorter Duration	6	5	3	2	0

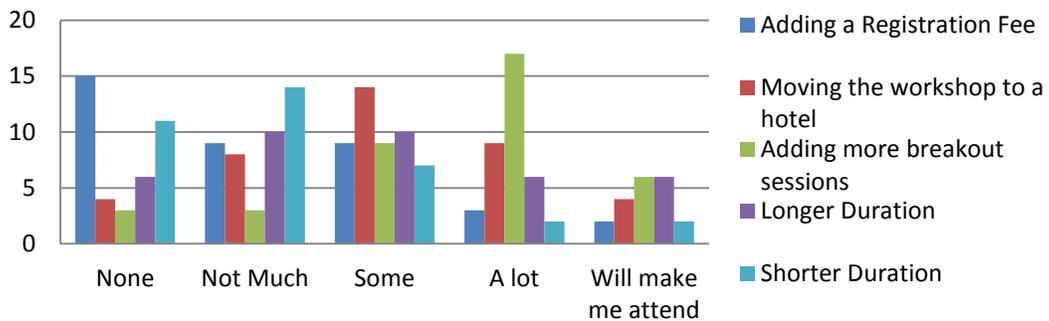
<b>Workshop Survey Day 2</b>	None	Not Much	Some	A lot	Will make me attend
Adding a Registration Fee	15	9	9	3	2
Moving the workshop to a hotel	4	8	14	9	4
Adding more breakout sessions	3	3	9	17	6
Longer Duration	6	10	10	6	6
Shorter Duration	11	14	7	2	2

<b>Workshop Survey Combined Stats</b>	None	Not Much	Some	A lot	Will make me attend
Adding a Registration Fee	21	14	13	4	2
Moving the workshop to a hotel	10	14	17	10	4
Adding more breakout sessions	5	7	12	21	9
Longer Duration	8	14	16	10	6
Shorter Duration	17	19	10	4	2

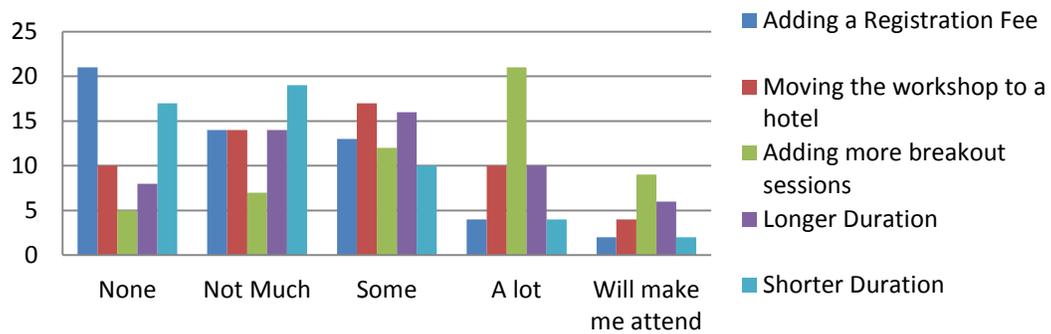
## Workshop Survey Day 1



## Workshop Survey Day 2



## Workshop Survey Combined



Names	General Response/Opinions:
<b>DAY 1</b>	
	Too many speakers with readily available information. Agenda tried to capture too many topics for the available time
Jeff Bruton	This is a good forum to interact with a broad cross section of the industry. I think an annual/semi-annual meeting is a good idea going forward
	Excellent, but no coffee!
	The effort to put this workshop together is clearly immense and Christy Lan with BSEE was an important champion clearly. The idea for this open discussion is excellent and much needed. I hope this is the first of many
	Christy Lan did a wonderful job.
	Great to give everyone a chance to present, but more discussion to less presentation may be more useful
Ross Frazer	This is a very timely gathering. I am hopeful BSEE will make this a regular event and gain some confidence regarding standards incorporation
	Good Start.
John Van Wijk	Excellent way to communicate with the industry provides an ability to interact in a less formal way. It helps the understanding and support.
	A lot of good information was shared today. I hope the coordination between the SDOs and regulators will be improved.
	Excellent dialog and right conversations, subject matter. Excellent company, society, standards development participation.
Simon Brown	A unique overview of offshore standards. Good to get an overall picture of API activities
	Great first event - a lot of info/material crammed into a day and a half - more opportunity for discussion would be useful. Good job keeping to the timeline.
	Very informative. As a new employee it is good to hear a lot of the terminology from industry and other experts
Ward Turner	Excellent.

Maynard Chance	Very good as a "start." POSITIVE response. Negative - have BSEE and APU and ASME et al. Some discussion on details too narrow of focus for the audience (API says this, ASME that - why is it there)
Tony Hogg	Very interesting. The duration should be tied to the subject matter, the duration should not be stretched or shrunk arbitrarily.
James Stear	Very good networking opportunity to connect standards group and regulator. Day 1 session necessary but does not need to be recreated to the same group.
Gregory Lever	BSEE Should be congratulated for sponsoring the workshop, which brought the news of the regulators on the need for good standards but more importantly gave the invitees an opportunity to share views and the SDO to talk about what they have been able to achieve since the GoM Incident.

**DAY 2**

Don Wells	Very Good. Open. Honest. Great start to what will hopefully be a regular event. General session with breakouts was good. Breakout sessions need more time.
	Way too short. Need much more time on the breakout groups. There was not enough direction on the breakout groups. The discussions seemed to wander around instead of focusing on bigger issues around the development process.
	Very nice statement of intent
Jon Van Wijk	Good to synchronise expectations with ability to deliver the robust technology and standards in support of the technology
Man Pham	Very productive information sharing
	Good interaction. Will be beneficial if it is maintained.
	Good conference, lots of moving parts.
Jeff Long	Good initiation meeting. The initial email could have contained a bit more information as to the format of the meeting. There was very good discussion on the second day. I felt it was productive. It was nice having BSEE and API in 1 room.
	Great idea to bring BSEE into standards development. Good initial attempt to bring together stakeholders. Expect that future workshops will be more focused with less "how to write an API SPEC" time spent.
	Very good. Very interesting. Very exciting workshop. 1.5 days just right. No problem if move to hotel but it must be managed.

DAY 2	Gary Hurta	Good! Need to continue the effort! Maybe next time in Houston!
	Sterling Lewis	Good, interesting, helpful, informative
	Rudolph A. Hall	The workshop is a good first step. Too limited in providing details. Too broad in subject matter.
	Mo Saraya	Good, need more than once/year
		Need more interaction of Gov and Industry. Gov needs to reference industry standards instead of writing thm.
	Darryl Fett	Excellent! Well-needed dialogue amongst key organizations/persons to move ahead in promoting safe and sustainable O&G development for the future, and in such a way to optimize the allocation of limited human resources on both industry and regulatory sides (efficiently with reliability)
	John Bednar	Very well done. Good opportunity for communication. Appears that objectives were well met.
	Jim Raney	Excellent. Great communication!
	Ricky Cummings	Great turnout although a lot of information packed into 1.5 days. Need more "workshop" time. Breakout discussion time.
		This workshop appears to be a duplicate effort. These discussions and presentations already occur 3 times a year: API Winter Meeting, API Summer Meeting, and each subcommittee's annual meeting. This additional meeting is not necessary
		Very informative
	David Stiles	This workshop was something that provides tremendous value to operators & BSEE & SDOs. Another similar workshop should be held next year
	David Landry	Very informative, may need to divide some sections. Not enough time to discuss the "hot" topics.
	James Stear	Primary Value - direct engagement between standard "users" and "developers." More targetted sessions between regulatory engineers and industry SMEs will be of great benefit
DAY 2	Frank Buescher	Very good - the breakout sessions provided valuable input.

Abdel Ghoneim	Great idea that I think will produce great results. The interaction is definitely beneficial both to the industry and the regulator. In the future events, probably more planning may help address the issues that face standards development in domestic and international arenas.
Sid Falk	Good workshop
Bernadette Thornton	The workshop was a good first try, but more discussion is necessary to create a more productive workshop.
	Very informative, good opportunity to meet people in areas where we don't have a chance to interface
David Comeaux	Productive break out session. Perhaps a list of available BSEE standards individuals with areas of responsibility would be helpful to TG chairs
David Comeaux	Format is good, subject matter speakers good. General info mostly dispersed on Day 1. Looking forward to direction from BSEE on interface coordination for SC6 TG work.
Andries Otter	Very good, well organized. Opportunity to network. Good facility
	Given this was the first meeting, there was a lot of information discussed. For future meetings, to get value out of the sessions the topics need to be broken down into smaller subjects.
Elliot Smith	Strong point: familiarizes audience generally in what is being worked on by various organizations. Weak point: some of the presentations didn't know when to stop. i.e. "they liked the mike" [note he is probably referring to ASME]
Kent Grebing	I think the workshop is good for the industry. In general it has been very informative. One thing: I was expecting a clear direction from BSEE as to what they are planning to do but what we got was a lot of generalizing. Less interested in attending if a fee is charged. Would be an improvement if the workshop was moved to a hotel. Duration is about correct.
David Zollo	The workshop was excellent. IT was interesting to see a forum where such a diverse group of standards writers could share information.
	Good to see where each party puts most importance. So far good.
Brian Skeels	Great time management and organization of workshop!

Austin Freeman	A good start. Glad to see it was well-attended by both BSEE and industry representatives.
Angie Gobert	1) It was very much appreciated and beneficial to many (new hires, tenured staff) 2) It was informative and allowed networking which can prove to be of great resource.

**Proposed Changes**

Mostly break out technical sessions, less general discussion. Less "soapbox" commentary

Smaller panel would be better but the speakers were very good.

None.

More focus on expected outcomes of meeting to more time for the delegates to work on those goals rather than listen to presentations

Ask presenters to avoid reading slides to audience. Advice from BSEE regarding their views on development of standards. Take the X's out of our survey boxes.

Defined Goals.

I have attended several BSEE workshops where industry has made significant effort to contribute and attend; however I have not seen much back from BSEE on what they plan to do or change as a result of the workshop

If you start charging [for registration] please cater lunch as it is always difficult to find quality food in 45 minutes.

None.

If food/refreshments are not provided, it should be confirmed that the on-site provider has enough provisions to accommodate the attendees. This survey is flawed. If I choose "A Lot" how do you know if it affects my interest negatively or positively? This applies to "None," "Not Much," and "Some."

BSEE leader is not obvious. Good reference on BSEE stand. It would be helpful for BSEE to look out and determine standards development priorities and 2013 agenda for regulatory priorities based in frontiers director Watson identified.

Less focus on detail of specific standards, more on strategy and overall direction

Longer breaks based on the number of people and availability of facilities, including lunch

More breaks

Not sure what we will do next year - could be a lot of repeat

Future meetings - narrow the scope or provide a focus

None.

General - provide water, coffee, light snacks for attendees. Day 1 content was fine.

- Room where bottom of screen up front can be seen by all.
  - Handout slides for better understanding and reference. Include more people.
  - The challenge is an event that has more of the right people invited without getting it so big that there is not interaction.
- Have presentations available QUICKLY after event.
- Open to registration fee and hotel venue if it is what it takes to make it work on a regular basis.
  - Longer Breakouts. Open to adding more breakout sessions so that any one individual is not forced to miss too much of what he is responsible for.

Establish a more structured template for the breakout sessions ahead of time.  
**You could also do more break out sessions in parallel.**

Need to have a clearly stated set of standards priorities from BSEE

We need more informal meeting with the BSEE to align our efforts and so work on what the BSEE Will require to create and maintain robust law making efforts

more time for details

**A steering committee (work group) between API, IADC, OGP, BSEE and interested parties to define and prioritize standards efforts.**

Coffee/Snacks/Water

More involvement from producers especially independents

More time to discuss topics, not so many different RPs/SPECs in the same sessions

Set dates early. Better understanding of BSEE interaction and alignment with API & SPEC Development

A lot of material covered in a short time. Might consider narrowing the focus next time. Good event!

BSEE to provide statistics on safety and environment issues as input for GAP areas to address. BSEE to identify areas where standards seen to be unclear or not effective. BSEE is review new/pending rules for discussion. Tables for writing notes during meeting.

More time in breakout sessions. More breakout sessions by subject matter. Follow-up to resolve differences.

More technical time understand BSEE direction

Make all presentations available. Need more discussion on gaps in new and existing standards. It was a long day in hard chairs without a table

None come to mind, believe we are in the right

Breakout sessions have too much in too short a time

More of this communication network. Make it c---- (build upon itself with the second and third)

- More discussion time.
- Make visible name tags.
- Instead of these workshops, suggest attending API standards workshop - 2/yr.

A pot of coffee would be appreciated

Issues identified during breakout sessions were poorly captured. DAY 1 BSEE UPDATE contains too much info for the allotted time. DPOS Breakout sessions was way too short.

Smaller groups. Use the tables and chairs.

Water, coffee, light snacks for participants. Keep size manageable. Document specific questions and action items at end. Designate individual to collect all questions and comments

Longer breakout sessions to review the revised and new API documents SC2. The 1st day could be compressed to a high level overview. Add a registration fee to cover catered lunch for a full day conference.

- Suggest more panel type discussion, more planning of speakers to address specific standards development issues.
- More comparison of standards and case studies and experience feedback would be useful.
- May be agreement on "agenda" with input from participants forwarded directly to BSEE would encourage discussion in difficult issues!

Condense the first day program to 1/2 day. Longer breakout sessions. More interaction @ WG level

More time to discuss technical expectations, BSEE actions with documents

Place the screens higher up to permit better visibility. Have participants seated at a table not just chairs

Better conference facility with internet connection

More specifics on BSEE expectations regarding standard development

- Beamer right hand side of meeting room was weak. Bottom of screen was difficult to see from back of the room.
- Have a smaller section at strategic level - how to address the big picture before diving into the detail at specific standards level.
- More time to share developments in international sphere e.g. well integrity in the operational phase, ISO 10530 that is in draft

- Better pre-read data to prepare a participant to add value.
- Lack of refreshments.
- At minimum should have coffee, tea, water.

Limit speakers to a set time frame to give an overview vs. allowing at least one speaker to ramble on. I am sure this turned off a number of attendees (including me). [Note: probably ASME again]

More on BSEE plans & direction

We should have more focused sessions to address particularly difficult issues across standards but this meeting was needed to kick that off.

- Hand outs of presentations at beginning to take notes on.
- Too long per session Recommend 50 minutes with 10 minute break in between.

Break future workshops into smaller scopes so that future breakout sessions have more than 5 minutes to discuss each topic. Cramming 6, 16 and 17 together.

A presentation by BSEE of their goals, vision, and strategies for regulations going forward.

Logistics: Schedule breaks more frequently and for 5 minutes longer. Ensure adequate lighting on both sides.

General: Have everyone who asks a question or share a remark state their name and affiliation. Add Pipeline subcommittees to the agenda - was missing that topic of discussion and does relate to safety and environmental protection.


APPENDIX D  
EVALUATIONS RECEIVED VIA EMAIL

**From:** Alan Spackman [<mailto:alan.spackman@iadc.org>]  
**Sent:** Monday, November 19, 2012 11:44 AM  
**To:** Morris, Douglas; White, Amy; Rhome, Wilbon  
**Cc:** Holly A. Hopkins; [andries.otter@shell.com](mailto:andries.otter@shell.com); Steve Kropla  
**Subject:** Feedback on BSEE Domestic and International Standards Workshop

Having taken some time for reflection, I would offer the following comments regarding the Workshop for your consideration.

1. The promotional material for the Workshop indicated there would be an "arena for the exchange of ideas and expectations on all aspects of offshore standards development." SDOs already provide such venues as a normal and necessary part of their standards development process. Accordingly, and particularly in the absence of statements from BSEE regarding their ideas and expectations regarding standards development, the Workshop provided no information that would not be available within of the routine meetings of the SDOs.
2. As an active participant in the work of many SDOs, I found the Workshop was of no added value from the perspective a standards development. It was a useful venue for networking – but was not unique in that respect.
3. Irrespective of the outcome of the Workshop, the content of industry standards will be determined by standards development processes and through active participation in those processes. While I may be mistaken, I do not envision the SDOs scheduling Subcommittee, Task Group or Work Group meetings during a BSEE Workshop: The SDOs all have their own schedules to manage.
4. The Workshop focused on API standards efforts. The information presented on the API standards was, necessarily, fairly cursory in nature in order to fit the time allotted and to keep the content at a high level. This said, I would not advocate providing more time so as to be able to delve more deeply into any particular standard as this could detract from and confuse the standards development processes. API already provides workshops on key standards, both as a part of its standards development process and to facilitate their implementation.

***Alan Spackman***

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Phone: +1 713-292-1964 (direct)

**From:** Elmer Danenberger [mailto:edanenberger@gmail.com]  
**Sent:** Tuesday, November 20, 2012 1:36 PM  
**To:** Rhome, Wilbon  
**Cc:** Lan, Christy M; Ray, Kumkum; Morris, Douglas  
**Subject:** BSEE Standards Workshop

Wilbon,

The following comments are pursuant to the approved Workshop Survey (OMB Control No. 1090-0011). (I apologize for exceeding the estimated response time of 6 minutes ☺)

General Comments:

- The workshop was excellent. You and your staff did a great job in organizing and conducting the event.
- Christy was an outstanding MC.
- Most of the presenters effectively addressed the intended topics.
- Despite the compressed agenda, there were good opportunities to discuss policy, operational, and equipment issues during both the plenary and breakout sessions.
- Where there were differences of opinion (e.g. API-ISO issues), everyone conducted themselves in a professional manner.
- I thought the background presentations were useful for this first event, but agree (per our discussion) that this introductory information can be curtailed at future workshops.

Venues

- I thought the venue worked out fine should it be necessary to hold future events at an BSEE facility.
- Charging a fee would be okay, but you would need budget authorization to do so. Collecting conference fees greatly complicates organization and management of events.
- You may want to consider special standards' sessions at OTC or during API standards conferences.
- A half-day international standards session in conjunction with the 2013 IRF conference would be of great interest.

Suggestions for Topics and Participants at Future Workshops or Special Standards Sessions:

- A discussion about BSEE's vision and strategic plan, and how standards fit into that plan. How will the standards program change when SEMS is fully implemented and BSEE transitions toward a safety management regulatory approach?
- A review of the options for including standards in the regulatory program. Most international regulators do not incorporate standards into their regulatory code. Instead, they list accepted standards in guidance documents or require operators to specify applicable standards in their Safety Management Plans, Safety Cases, Well Operations Plans, and other planning documents.
- The Coast Guard and PHMSA are important OCS safety regulators and their participation in future workshops is suggested. A common goal should be for these key regulatory agencies to have consistent approaches in applying safety standards.
- It would be nice to have a broader representation of OCS operators. Increasing the participation of independents could be a point of emphasis at future workshops.

Bud