BSEE Standards Workshop

SC 16

SC 16 Standards and RP

Kent Grebing Chairman , Mel Whitby Vice-Chairman

- **API 16 A – Specification for Drill Through Equipment (John Busby Chairman,)**
- **API 16 AR – Specification for Repair and Remanufacture of Drill Through Equipment (Jan Van Wijk Chairman, Chris Johnson Co-Chairman)**
- **API 16 C – Specification for Choke and Kill Systems (John McCaskill Chairman)**
- **API 16 D – Specification for Control Systems for Drilling Well Control Equipment and Control Systems for Diverter Equipment (Brian Wright Chairman, Maynard Chance Vice-Chairman)**
- **API 16 F – Specification for Marine Drilling Riser Equipment (George Tisdale - Chairman)**
- **API RP 16 Q - Recommended Practice for Design, Selection, Operation and Maintenance of Marine Drilling Riser Systems (David Lewis - Chairman)**
- **API 16 R - Specification for Marine Drilling Riser Couplings (David Lewis - Chairman)**
- **API 16 ST- Coiled Tubing Well Control Equipment Systems (Alex Sas-Jaworsky – Chairman)**
- **API S 53 – Blowout Prevention Equipment Systems for Drilling Wells (Frank Gallander Chairman, Ricky Cummings Vice-Chairman)**
- **API RP 64- Recommended Practice For Diverter Systems Equipment and Operations (Tony Hogg Chairman Vice Chairman Luis Cruz)**

Status Update on API 16A Specifications for Drill Through Equipment

- 3rd Edition Published June 2004
- Reaffirmed August 2010
- Next meeting the First week after Thanksgiving
- Under revision, Anticipated Ballot first or second quarter 2013
- Line by line review has been completed, a number of changes, corrections and updates have been incorporated.
- Removed Repair and remanufacture annex.
- Working on establishing minimum operational acceptance criteria
- Elastomer rating system discussed and enhanced system proposed
- S53 Gap analysis

Status Update Specification for Repair and Remanufacture of Drill Through Equipment

- New specification Designed to take the place of API 16A Annex B
- Kick Off Meeting 17 May 2012, Second meeting 11 July 2012
- Next Meeting at winter conference in New Orleans
- Proposed completion 4th quarter 2013
- Vision

  Provide the industry with a clear set requirements and process for repair and remanufacture of drill through equipment

Status Update for API 16C specification for choke and Kill Systems

- First Edition Published 1993
- Reaffirmed July 2001
- Under revision, Kick off Meeting held August
- Held 2 additional meetings
- Next meeting at Winter conference In New Orleans
- Line by Line review
- Formed working group on Hoses and NDE
- S53 Gap analysis

Status Update for API 16D Specification for Control systems for Drilling Well Control Equipment and Control systems for Diverter Equipment

- Second Edition Published July 2004
- Reaffirmed May 2010
- Under revision, Working on draft, targeting winter conference
- Task group formed to address electrical/ electronic issues. To include minimum standards for electronics and software (Led By Danny Fugate)
- A proposed change concerning the accumulator sizing will be one of the major changes for the Third Edition. The proposal is that the main accumulator system be capable of a worst case well control event. Participation by the operators has determined what the functional requirements are for a worst case well control event.

  The main accumulator system for a surface stack must be capable of:
  - Close the annular
  - Shear and Seal.
- The main accumulator system for a subsea stack must be capable of:
  - Close the annular
  - Close a pipe ram
  - Shear and Seal. Shear and seal may mean close CSR & BSR.

Status Update for API 16D Specification for Control systems for Drilling Well Control Equipment and Control systems for Diverter Equipment

- 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 too simplistic; it was suggested to use 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.
- Also, it was noted that some surface stacks match the capabilities of some subsea stacks."
- The API 16D, Third Edition document is currently being re-formatted to match the format of S53 where possible.

Status Update on API 16Q / 16R / 16F

API RP 16Q - Recommended Practice for Design, Selection, Operation and Maintenance of Marine Drilling Riser Systems (David Lewis - Chairman)

First edition 1993 , Reaffirmed 2001

API 16R - Specification for Marine Drilling Riser Couplings (David Lewis - Chairman)

First edition 1997, Reaffirmed 2010

API 16F – Specification for Marine Drilling Riser Equipment (George Tisdale - Chairman)

First edition 2004, Reaffirmed Aug 2010

- **All three documents are undergoing a major re-write which started a year ago.**
- **New table of contents have been developed and sections being written by the work groups.**
- **Building on existing API and ISO documents.**
- **Excellent Industry participation from operators and service companies.**
- **Holding joint meetings for the re-write so all three documents will be well integrated.**
- **Expect new draft of the three documents for exterior committee review in a year.**

Status update API 16 ST- Coiled Tubing Well Control Equipment Systems

- First edition published March 2009
- Document Revision will kick off this fall
- Will be doing a line by line review of document
- Will be working with other standards groups primarily 16 D
- Revisions will focus on

  accumulator sizing

  shearing capabilities

Status Update API S 53 – Blowout Prevention Equipment Systems for Drilling Wells

- 3rd Edition Published March1997
- Reaffirmed September 2004
- 2-Year extension 2010
- Balloted, Approved , Released for publication
- Expected publication December 2012

Status Update on API RP 64 Diverter Systems Equipment and operations

- 2nd Edition Published November 2001
- Reaffirmed January 2012
- Under revision, Kick off meeting Held November 8
- Next meeting 20 December 2012
- The revised document will be published as a standard
- Consideration is being given to split the document into “Surface” and “Subsea” systems to prevent the need for compromised solutions