

1st Quarter Meeting April 15-16

MPD/UBO Committee Meeting Minutes

Hyatt Regency, San Antonio, Texas, April 15-16, 2013

Meeting called to order at 830 am by the chairman. Scott Maddox made an announcement with regards to anti-trust regulations which must be followed for each of our meetings.

Past chairman Dag Ove Molde was presented with an award of appreciation for his work over the past year.

A safety moment was presented by the chairman.

The minutes from the past meeting were presented and a motion to approve the minutes made by B. Grayson, seconded by S. Wilson.

Subcommittee Reports

UBO Subcommittee

An update on the proposed changes to the R92U operational matrix was provided by D. Pavel.

An API R92U task group meeting was convened specifically to discuss the proposed changes to the 92U matrix previously accepted by the IADC committee. The changes were not accepted during this meeting, and further changes to the overall document were proposed. The use of the operational matrix in its current form could lead the user to a well control event based on the interpretation of the data contained. A proposal was made to draft a letter to API highlighting these concerns and recommend that changes be made to the matrix prior to any other changes.

Furthermore, D. Pavel made a plea for increased UBO Committee member attendance at the R92U meeting to prevent such proposals from being blocked by casual attendees.

Task group volunteers were noted, and listed as:

- Roger Johns
- Mike Vanderstaak
- John Kozicz
- David Pavel
- Sara Shayegi
- CJ Bernard
- Oscar Gabaldon
- Tom Bailey
- Stu Butler

MPD Subcommittee

D. Pavel provided an update on the MPD best practices document for single phase ABP MPD for surface stacks, and its status. The content of the document is finished and what remains is to clean it up (through



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a technical writer) and present it to API. It was discussed to hold a meeting with API (May 14th) to discuss the document. B. Grayson volunteered to chair the best practices task group and carry it from its present state to finalization.

A motion was made by M. Culen to clean up the document and issue as an IADC guideline while the API adoption process is underway. Motion was seconded by J. Dech, and passed.

A call for volunteers to populate the MPD Best Practices Task Group was made and names noted:

- Roger Johns
- John Kozicz
- Sara Shayegi
- Ahmed Bakri
- Alan Clarke
- Ian Sneddon
- Andrew Barry
- Roberto Castillo
- Stu Butler
- Stewart Wilson
- Mike Vanderstaak
- Oscar Gabaldon
- Juan Beltran
- Jay Shelton
- Stephen Taylor

DGD Subcommittee

F. Jaquemin provided an update on items the subcommittee are working on, the primary one being the organization of the upcoming DGD workshop in May. He stated that the subcommittee wanted to work on the various subcategories of DGD and how they are presented to industry.

HSE Subcommittee

As Don Reitsma is no longer a part of the committee, a motion was made by C. Godfrey for CJ Bernard to assume the role of subcommittee chairman, which was seconded by Mike Vanderstaak.

Training Subcommittee

M. Culen provided an update from the training subcommittee. The UBWC curriculum changes are currently with the IADC for review and redistribution to industry. An action was assign to contact Brenda Kelly at IADC to review progress. A discussion ensued about the standardization of MPD and DGD well control nomenclature and documentation. S. Maddox showed the IADC KSA tool to determine applicability for the committee. Martin proposes for the training subcommittee to take a look at the IADC KSA and evaluate applicability/interaction with it.

The chairman suggested that the discussion surrounding training be moved to the following morning for all to discuss.



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Outreach Subcommittee

An update on the subcommittee activities was provided by B. Grayson. No specific work was done over the last quarter. Discussion about strategies to increase outreach of the committee followed.

Sara: proposes to increase amount of meetings in US Continent, since attendance is larger here, and companies find difficult to approve overseas travel for attendance to meetings. Discussion follows.

Regulatory Liaison

G. Medley updated the group on the NTL (MPD), which is going to expire. It is going to be reaffirmed, however MPD applications in the meanwhile will go through. The draft NTL for DGD was submitted to BSEE and is not used by anyone at present. P. Cato stated that the NORSOK D010 is up for revision, and the standard was rewritten to include UBD and MPD. It will be released in early July for a fixed / surface BOP. It was noted that there is no DGD component to this standard.

API 16RCD Task Group

M. Culen provided an update on the status of 16RCD document. The reaffirmation rests with API at the moment and vote to do so will be circulated by them shortly. To recap, the 16RCD document was revised and work on the technical supplements began last quarter. No further work was done since last meeting.

2013 Committee Meetings Dates & Places:

- 2Q13 25-27, June in Frankfurt, Germany. NOV will host. This was agreed upon after much discussion on who is available to host the meeting, as BP's offer landed on the July 4th long weekend.
- 3Q13 10-12 September in Houston, IADC will host. Blade Energy will host lunch.
- 4Q13 3-5 December in Copenhagen. Maersk will be the host (tentatively)

2014 UBO/MPD Conference Location:

After discussion with Leesa Teel, it was decided that the conference location for 2014 is Madrid, Spain.

Discussions

Future Meeting Scheduling:

The group discussed the format of meetings and decided (by a show of hands) that the current style is good and duration should be $2\frac{1}{2}$ days. The structure should be:

- / Half day of recap and general reporting
- Organize working sessions for afternoon of Day 1 and all of Day 2
- / Reconvene and general final discussion with summaries from each break out session on Day 3.



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Frequency and geographical split of the meetings to remain the same, and could consider tying in to regional ATWs as well.

Discussion about the future of the Committee:

As a result of the annual IADC Committees organizational meeting for chairmen, M. Vanderstaak tabled numerous discussion points:

- Is the current committee logo adequate and should any changes be made? No decision so far.
- Mission Statement: It is OK the way it is? Some discussion ensued about potential alternatives, but in the end decided to leave it as is.
- Should we review the term for Subcommittee Chairs? Group decided 'no change'. Will be on seat until they no longer can do (or want to do) the job, or no longer show up.
- Automatic Response System ARS: Scott presented the ARS used by the BOP Committee. Possible to use for conferences. Would be presented by the Committee to the audience of the conference. Cost: about \$2500. Could use results to publish on Drilling Contractor Magazine, for example.

R92U Subcommittee Working Session

Session lead by David Pavel (WFT)

So far, revision has been limited to UBO Matrix of Operational Actions.

Matrix is renamed to Matrix of Operational Actions.

5.4.3. Pressure and flow rate values are based on the design limitations of the actual equipment.

Note: Should add operational limits to P2, additional to equipment driven limits for operations. This would be driven by specific operation design, providing the whole team with a 'desirable' operational region which is appropriate, and not necessarily close to the equipment limitation.

Need to decide if the Committee wants to push this modification as an addendum through API, or continue working on the whole document and wait until formal revision is due.

If we think that it needs to be pushed as an addendum, presenting it as a HSE issue may provide momentum for the acceptance of the addendum, as opposed to some members of the task group who want to review the whole document instead, which would delay the whole process.

Comment to emphasize urgency of addendum: There is people out there who don't understand the full extent and safety implications of using the prescriptive limits in the original Matrix. This Committee has identified urgent modifications to the Matrix to ensure Operators and Service Companies agree on safer operational conditions.



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API 16RRCD Working Session

Session lead by Martin

The intent of this session was to begin to populate the operational guidelines for RCDs and any recommended additional testing to qualify their use. It became apparent however, that the majority (all?) of task group members present represented service companies and not end users. The discussion as to what additional testing of RCDs as directed by the providers of RCDs did not make sense. The session was halted and the group polled to complete an 'RCD End User List', from which representatives would be called upon to attend future meetings and begin to populate the operational guidelines. The list is as follows:

BG Shell BP Petronas OMV Petrobras ExxonMobil Total Statoil

Conoco Philips Marathon Repsol Chevron Pemex

Linn Energy – Kurt Shipley Aramco

Aramce ADTI AGR Eni Hess Maersk DONG Addax Talisman Suncor Husky Anadarko

Wild Well Control

Murphy
Apache
Chesapeake
Encana
YPF
Nexen
Ecopetrol

Signa Senergy Blade

Contact names at each of the companies shall be populated by M. Culen.

A cleaned up version of the 16RCD document will be uploaded to the website for review by task group members.

MPD Best Practices Working Session

MPD document is currently as an API draft.

Required actions:



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- 1. Technical writing: Hess will check with about using their tech writing staff. Blade will also check on their tech writing resources (provide quote).
- 2. Graphs: Will review some graphs. Printing will be in B&W, but IADC has stated that can be published on line on color. Need to test that colors show properly on B&W for the paper copies.
 - 1. Wellbore diagram: check possible corrections to make it more clear. Add labels or numbers.
 - 2. Well barrier elements (Envelope) Volunteer: Roger Johns (Mathena)
 - 3. Add Flow Schematic for the front page.
- 3. Matrix: Fine tune
 - 1. Colors: make sure it is readable and differentiable in color and in B&W. Evaluate ways. D Pavel will tidy up the Matrix
- 4. Proof review after tech writing edition.
 - 1. Reviewers: Brian Grayson (WFT), Stu Butler (Canrig), Perg (Statoil), Isabel Poletzky (HAL), Oscar Gabaldon (Blade).
 - 2. No changes to title for now.
 - 3. Needs to be done by API meeting on May 15th.
- 5. Requested volunteers for API meeting to be part of the balloting process.
 - 1. One person per company. Company is required to be API member.
 - 2. Volunteers: Gathered as company representation on sign in sheet.

Mud Cap Best Practices

Based upon discussion at the last meeting, a task group was developed to address best practices for PMCD.

PMCD with surface stacks only. Pressurized, Dynamic (constant injection and full annulus). Mention about floating, but not full best practices. Bob Goodwin (Signa Eng) volunteers to start working on document. Will present advance by 3Q13. B Grayson volunteered to participate.

CBHP Deep Water Best Practices

Based upon discussion at the last meeting, a task group was developed to address best practices for CBHP deep water applications.

CBHP DeepWater: Document should be a complement to MPD Best Practices document (additional considerations to enable doing CBHP from floating vessels. Nominated John K. (Transocean), Gavin H. (Stena) and Jaye Shelton (MI Swaco/Schlumberger) to start the document.

(their acceptance to be confirmed?)

The two documents above will be worked in parallel.

MVS also points that we should not forget about best practices for UBO in Sour conditions.

The meeting was adjourned at 3:25 pm on the 16th of April.



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Attendance:

Name		Company Name
Charles	Kamps	@Balance
John	Cohen	AGR Drilling Services
Borre	Fossli	AGR EDS-ORS
Roger	Stave	AGR EDS-ORS
James	Dech	AGR Subsea Inc
Oscar	Gabaldon	Blade Energy Partners
Martin	Culen	Blade Energy Partners
Lei	Zhou	BP America
Stuart	Butler	Canrig Drilling Technology Ltd
Kenneth	Smith	Chevron
Christopher	Bernard	Halliburton
Craig	Godfrey	Halliburton
Omar	Montes	Halliburton
Emad	Bakri Ibrahim	Halliburton
Isabel	Poletzky	Halliburton
Mike	Vander Staak	Hess Corporation
Scott	Maddox	IADC
George	Michaud	Managed Pressure Operations (MPO)
Roger	Johns	Mathena Inc
Eric	Harp	Mathena Inc
Jaye	Shelton	MI Swaco/Schlumberger
Andoni	Zagouris	National Oilwell Varco
Shantur	Tapar	National Oilwell Varco
Neil	Ross	National Oilwell Varco
Alan	Clarke	National Oilwell Varco
Frédéric	Jacquemin	Pacific Drilling
Andre	Fernandes	Petrobras
Antonio	Lage	Petrobras
Guilherme	Vanni	Petrobras



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Fernanda	Pinho	Petrobras
Sandor	Divenyi	Petrobras
Emmanuel	Nogueira	Petrobras
Robert	Ziegler	Petronas Carigali SDN BHD
Cris	Braun	Pruitt Tool & Supply Co.
Shawn	McBride	Pruitt Tool & Supply Co.
Stephen	Taylor	Pruitt Tool & Supply Co.
Kenneth	Downs	Pruitt Tool & Supply Co.
Andre	Madaleno	Queiroz Galvão Oleo & Gas (QGOG)
Diego	Perez Rodriguez	Repsol
Eugenio	Roqueni	Repsol
Bipinchandra	Dugam	Repsol Brasil S.A.
John	van-Vegchel	Research & Teaching Services
Roberto	Castillo Duran	Saudi Aramco
Juan Carlos	Beltran	Schlumberger
Sara	Shayegi	Shell International E&P
Brian	Tarr	Shell International E&P
Petter	Arlehed	Siem WIS
Tom	Askeland	Siem WIS
Harry	Bolle	Siem WIS
George	Medley	Signa Engineering Corp
Bob	Goodwin	Signa Engineering Corp
Per Cato	Berg	Statoil
Dag Ove	Molde	Statoil
Gavin	Humphreys	Stena Drilling
Stewart	Wilson	Strata Energy Services Inc
lain	Sneddon	Transocean
John	Kozicz	Transocean
Thomas	Bailey	Weatherford
Brian	Grayson	Weatherford
Andrew	Barry	Weatherford



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David	Pavel	Weatherford
Guy	Feasey	Weatherford
Rich	DeBuys	Wild Well Control