

3rd Quarter Meeting August 23 – 25, 2016 Houston

DAY 1 - Tuesday August 23rd

Welcome, Announcements & Safety Moment.

Per Cato Berg welcomed the UBO-MPD committee and thanked AF Global for sponsoring the meeting.

Leesa Teel gave a short safety information and information about IADC antitrust policy. The guidelines can be retrieved in their entirety from the IADC web site.

Introduction of Committee Members and Guests. The group was asked to introduce itself. Each attendee gave an introduction including company name and work location. See Appendix 1 for the detailed list of the attendees.

Charley Kamps appointed to be a minute taker.

John Kozicz gave the Safety moment.

Q2.16 Meeting Minutes – Review

Per Cato went through the MOM from the 2nd quarter meeting. The minutes were revised slightly based on comments received after the meeting. The minutes are approved.

Discussed Meeting and conference schedule

2016 Committee Meeting Destination.

Quarter	Date	Location	Sponser
Q3	August 23 - 25	Houston	AFGlobal
Q4	Nov 29 – Dec 1	Milan & Houston (by video)	Saipem

Saipem confirmed as sponsor for Q4 meeting and will host in both Milan and Houston.

2017 Committee Meeting Destination.

Quarter	Date	Location	Sponser
Q1	March 30 - 31	Rio de Janeiro	??
Q2	June 6 – 8	Houston	Blade
Q3	August	London?	Schlumberger?
Q4	December	Houston?	Maersk Training?

Blade (Martin Culen) confirms Blade will sponsor/ host Q2 meeting. Schlumberger to check on sponsorship of Q3 meeting and location. Mærsk Training volunteered for hosting a meeting at their location in Houston.

Discussed location for 2018 conference and meeting:

- There is a fear that attendance will be very poor in Athens
- Push date back to mid- April to distance from Drilling Conference.
- Leesa will check the following locations and present to the committee to make a decision in Q4: Denver, New Orleans, San Antonio.



3rd Quarter Meeting August 23 – 25, 2016 Houston

Subcommittee reports

MPD – John Kozicz

- Surface Backpressure Surface BOP (92M)
 Went out for 2nd ballot with 12 comments returned. Per Cato received comments and will be reviewed during Q3 meeting
- PMCD Subsea BOP (92P)
 Ballot distributed with 250 comments received. Those comments will be addressed during Q3 meeting.
- Surface Backpressure Subsea BOP (92S)
 Went out to voting members with required response date of October 7th.

UBO – Mike Vander Staak

No work has been done since last meeting. 92M has taken precedence before any further work.

DGD – Børre Fossli

Work started to prepare a draft for Controlled Mud Level (CML) MPD RP. The intention is to have a break-out sessions during this meeting.

Work group formed in Q2 2016 (10-15 members), similar to 92S RP working on CML. 1st draft distributed to work group with 158 comments returned to work group. Comments distributed to work group with proposed solution. Will review proposed solutions in Q3 break-out sessions and determine to get subcommittee approval before redistribution. Goal is to accelerate completion of this document.

Document is fairly mature but will need some drawing updates and editorial work. Anyone wishing to participate in the work group is welcome to do so and should reach out to Børre Fossli.

Regulatory liaison - Earl Dietrich (not present).

No update

Well Control Liaison - Paul Sonneman

Robert Ziegler presented to "gas in riser" topic to Well Control Committee but some reluctance to pick up ownership of this topic.

No additional work performed by work group, understand problems and solution but there is stalling until committee commits to picking it up.

Regulatory will step in to address this if a committee does not do so; consensus within UBO/MPD committee



3rd Quarter Meeting August 23 – 25, 2016 Houston

Certifying Authority Liaison – CJ Bernard (not present)

Jay Bruton provide update from ABS

ABS Appendix 7 document 2012 – 2014 Guide to Classification of Drilling Systems for MPD. 750 comments previously received and addressed over the course of Q2 and redistributed for review.

180 - 200 comments received in Q3; will be addressed in the coming week to allow escalation of the document within ABS.

No known updates for DNV or Lloyds.

API 16RCD - Martin Culen

Received 1 more clarification on manufacturing spec in API 16 RCD edition 2. Operational testing standard – details on test facility description, test methodology, test reporting API advises the testing standard can reside in the annex. The testing standard will make it informative (optional) testing but if manufacturer desires to complete testing standard, they must follow any normative (required) testing.

HSE / Training Subcommittee - Oscar Gabaldon and/or George Medley (not present)

Oscar advises curriculum developed for fundamentals of surface back pressure MPD on surface stack and subsea BOP. New guidelines for Wellsharp have been provided by IADC. A few changes must be made to curriculum to make consistent with Wellsharp format.

Any Other Topics

- Mike Van der Staak proposes we should have participation in API RP 16Q task group and pending revision. Document will be submitted to UBO/MPD committee for review and comment.
 - Propose to have liaison report back to UBO/MPD Committee.
- David Postel informs committee that SPE will conduct workshop, Improved Well Control and Drilling Performance with Advances in MPD Technology, in Kuala Lumpur in Feb 2017.
- Consolidated MPD RP document will remain on hold until existing RP revisions or new RP's (ie. CML RP) are complete.
- Question posed whether this committee should take on Riserless Drlg or DGD of top hole sections. Decision made to table this discussion until CML RP is complete.

Action Item: Committee members to submit candidates for 2017 Vice Chairmans to Leesa Teel. Voting will take place in Q4 2016 meeting.

Breakout sessions

Working sessions covering:

- MPD sub committee will review remaining comments on SBP, Surface BOP (92M) document and PMCD document
- API 16 RCD task group will review "Operational testing standard"
- DGD sub- committee working on CML RP document.

12:00 – 13:00 Lunch - Sponsored by AF Global.



3rd Quarter Meeting August 23 – 25, 2016 Houston

Breakout sessions continued throughout afternoon.

2017 Conference Abstract Review and Paper selection concluded at the end of Day 1.

DAY 2 - Wednesday August 24th

Per Cato Berg welcomed the UBO-MPD committee to the 2nd day and thanked AF Global for sponsoring the meeting again.

Summary of yesterday's breakout sessions:

MPD subcommittee:

- All 92M comments (12) have been addressed
- 40-50% of comments to 92P addressed.

DGD subcommittee:

Working through 152 comments on CML RP

API 16RCD task group:

- Worked on answering questions received from API regarding 2nd edition of API 16RCD
- Check with API on monogram marking in 2 places (ie. bearing body or seal cartridge and RCD body)

12:00 – 13:00 Lunch – Sponsored by AF Global

13:00 – 14:15 BP Presents Mud and Gas Handling Issues and Opportunities

BP presented how the drilling industry accepts free gas at the drillsites to a larger degree than other industries. They informed the committee that they will host an industry workshop in Q1 2017 to have a white paper discussion looking at future solutions to address current issues.

14:15 – 14:30 Coffee Break – sponsored by AF Global

14:30 – 15:00 Group discussion around Riser Gas:

Martin Cullen motions for UBO / MPD Committee to take on Gas in Riser topic. Robert Ziegler seconds the motion and there is unanimous decision among committee members to take on this topic.

Consider creating a Riser Gas Sub-Committee or make it a task group.

John Cohen motions to create a sub-committee for Riser Gas similar to MPD, DGD, and UBO. Robert Ziegler seconds the motion and there is unanimous decision among committee members to form this subcommittee. Chairman and vice chairman were appointed.

Paul Sonneman - Sub-committee chairman

Robert Ziegler – Sub-committee vice chairman



3rd Quarter Meeting August 23 – 25, 2016 Houston

Action Item: Subcommittee to propose a mandate for the subcommittee to the committee in the Q4 meeting.

Action Item: Paul Sonneman to notify Well Control committee of the UBO/MPD committee's intention develop a document covering Riser gas handling also for conventional operations.

Breakout session cont.

DAY 3 – Thursday August 25th

Summary of yesterday's breakout sessions:

MPD subcommittee:

92P Work group: worked strictly on comment resolution; roughly 50 comments remaining going into Day 3.

API 16RCD task group:

Propose to tweak wording in API 16 RCD edition 2 on what is included in a complete RCD to provide better clarity.

Run in hole, drilling and strip out of hole -3 tests but concluded run in hole and strip out of hole are essentially the same test when it comes to executing on a stripping stand. Plans for the "Operating testing standard" to reside in the Annex and consist of just 2 tests: dynamic (rotary) test and stripping test.

Work will continue on "Operational testing standard".

DGD subcommittee:

Still working through comments on CML RP. Roughly $\frac{3}{4}$ complete on working through the larger items and $\frac{3}{4}$ complete on smaller items.

Breakout session cont.

10:00 – 10:15 Coffee Break – sponsored by AF Global

Summary of Day 3 breakout sessions:

API 16RCD task group:

Martin Culen presents table showcasing all variables included in Operating Testing Standard (SAL1, SAL1A – WBM w/ misalignment, SAL 2 – OBM, no misalignment, . Goal is to create as most rig-like scenario and testing standard as possible.

Most variables can be easily accommodated with current test fixtures; misalignment is the most challenging variable to create in a lab environment. Evaluate new procedure for the drill ahead test to accommodate misalignment.



3rd Quarter Meeting August 23 – 25, 2016 Houston

Action Item – Martin to verify with API if we can include monogramming of RCD component – Bearing assembly or cartridge.

MPD subcommittee:

92P Work group: worked strictly on comment resolution; 32 comments remaining but nearly 220 comments processed during Q3 meeting.

DGD subcommittee:

Still working through comments on CML RP; good progress made but still need another session to complete processing of all comments.

Consider taking smaller items in a web conference but any well control related items will be held until December committee meeting.

11:30 – 12:15 Other Topics and Meeting Wrap Up

Per Cato polled the members whether there will be any attendance in the Q4 meeting in Milan. 6-7 of the present members would be attending. A discussion whther to relocate the meeting to Houston followed.

Question posed of having 16 RCD task group meet in Houston during Q4 meeting to accomplish better attendance or task group having a working session prior to committee meeting. Concerns were raised that this may have a negative impact overall by breaking up Committee activities.

Discuss option of video conferencing for Q4 committee meeting. This would likely be for updates only and not include the working sessions.

Action Item: Per Cato to send email to committee members explaining proposed agenda and requesting confirmation on their attendance. If confirmed attendance is not significant for Milan (>12-15), meeting will be moved to Houston and possibly hosted by Maersk Training or Saipem Houston.

Per Cato thanked AFGlobal for arranging and sponsoring the meeting, and adjourned the meeting.

Attendance:

Name		Company Name
Jeff	Robbie	AFGLOBAL
Charlie	Orbell	AFGLOBAL
Brian	Piccolo	AFGLOBAL
Andrew	McNeill	AFGLOBAL
Jay	Bruton	AMERICAN BUREAU OF SHIPPING
Sohail	Mohammed	AMERICAN BUREAU OF SHIPPING
Harish	Patel	AMERICAN BUREAU OF SHIPPING



3rd Quarter Meeting August 23 – 25, 2016 Houston

Peter	Armitage	ARMITAGE & ASSOCIATES
Peter	Grumley	ARMITAGE & ASSOCIATES
Martin	Culen	BLADE ENERGY PARTNERS
Serken	Cenberlitas	BLADE ENERGY PARTNERS
Oscar	Gabaldon	BLADE ENERGY PARTNERS
Brad	Smolen	BP AMERICA, INC.
Wael	Essam	BP AMERICA, INC.
Michela	Gentile	BP AMERICA, INC.
Charles	Holt	BP AMERICA, INC.
Gergely	Szekely	CONTITECH OIL & MARINE
Eduardo	Peixoto	CONTITECH OIL & MARINE
Jeff	Graybeal	DIAMOND OFFSHORE TEAM SOLUTIONS INC
Bill	Huckaby	DRILLING INNOVATIVE SOLUTIONS
Borre	Fossli	ENHANCED DRILLING
John	Cohen	ENHANCED DRILLING
Greg	Myers	GE OIL & GAS
Joseph	Karigan	HALLIBURTON ENERGY SERVICES GROUP
Christopher	Lemons	HELMERICH & PAYNE
Mike	Vander Staak	HESS CORPORATION
Leesa	Teel	IADC
Jacob	Petz	MAERSK TRAINING
Dennis	Moore	MARATHON OIL
Charles	Kamps	M-I SWACO, A SCHLUMBERGER COMPANY
Bastiaan	Liezenberg	MI-SWACO - DYNAMIC PRESSURE MANAGEMENT (DPM)
John	Conn	MI-SWACO, SCHLUMBERGER
Shantur	Tapar	NATIONAL OILWELL VARCO
Martyn	Parker	OPTIMAL PRESSURE CONTROL
Stephanie	Weiss	PARKER HANNIFIN



3rd Quarter Meeting August 23 – 25, 2016 Houston

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Karl	Hay	PARKER HANNIFIN
Guilherme	Vanni	PETROBRAS
Micah	Spahn	PRUITT TOOL & SUPPLY
David	Postel	REGIONAL MARINE & ENGINEERING SERVICES PTE LTD
Paul	Sonnemann	SAFEKICK
Adel	Mettai	SCHLUMBERGER
Nate	Smith	SCHLUMBERGER
Jay	Lancaster	SEADRILL
Brian	Tarr	SHELL EXPLORATION & PRODUCTION
Hari	Hariharan	SHELL EXPLORATION & PRODUCTION
Robert	Goodwin	SIGNA ENGINEERING CORP
Travis	Mathews	SIGNA ENGINEERING CORP
Per Cato	Berg	STATOIL
Alexander	Bruce	STENA DRILLING
John	Kozicz	TRANSOCEAN
James	Chambers	WEATHERFORD
Peter	Dugas	WEATHERFORD INTERNATIONAL
Robert	Ziegler	WEATHERFORD TECHNOLOGY & TRAINING CENTER
Brian	Grayson	WEATHERFORD UNITED STATES