DAY 1 – Tuesday 10th 2015

Welcome, Announcements & Safety Moment.

8:00: David Pavel welcomed the UBO-MPD committee. IADC gave us a welcome speech and covered the building safety and IADC antitrust policy. The guidelines can be retrieved in their entirety from the IADC web site. Safety moment was given by Brian Grayson on hot fueling.

Introduction of Committee Members and Guests.

The group was then 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.

Anton Kozlov / Landon Hollman (Blade Energy) were coerced to be minute takers.

4Q14 Meeting Minutes – Review

The previous minutes were officially approved. (J. Bruton, B. Pattal).

Venues for upcoming committee meetings were discussed:

It was announced that the search for a Q2 2015 meeting sponsor is ongoing. New Orleans is the choice location for 2016 pending accommodation confirmation. The venue and accommodations should be confirmed in 2 weeks. David Pavel emphasized the importance of advance planning to be able to secure desired venues.

The search for 2017 and 2018 venue is ongoing, suggested locations were voted on:

2017:
- Athens - 15
- Stavanger – 8
- Paris - 5

2018:
- Rio - 18
- Houston / Galveston - 15
- KL - 2

Mark Dankowski (EVP IADC) made a presentation on well control training.

Subcommittee reports

Following are the updates as provided:

UBO Subcommittee – Dennis M provided an update
Dennis provided an update. Limit revision to topics that were originally balloted with the exception of pressure testing the RCD.

**Managed Pressure Drilling (MPD) Subcommittee – Per Cato provided an update**

ABP surface stack document (API 92M) was sent out for balloting. Deadline for voting/comments was 17th Jan.

PMCD for subsea stack document was almost finished last meeting and should be finished this meeting. Additional changes were recommended by one of the subgroups that worked on the ABP subsea stack document.

ABP subsea stack document was started last meeting – the work will be continued this meeting. 2 day session is planned.

Per Cato suggested that the IADC committee can take on the role of API task group as well.

It was decided during last meeting to postpone combining the two documents ABP/PMCD until individual documents are finished.

**DGD Subcommittee – Frederic J provided an update**

Speaker agenda for the upcoming DGD workshop and DGD well control conference was finalized. Workshop will be tied to IADC Well Control Technology conference in Galveston. DGD presentations will be at Dubai IADC UBO/MPD Conference.

**HSE & Training Subcommittee – David Pavel gave an update**

Fundamental curriculum guide for MPD is on IADC website for review and would be discussed during the meeting.

**Well Control Liaison – David Pavel & Paul Sonnemann provided and update**

Paul attended the committee meetings. Subject of gas in the riser was brought up in the meeting. Discussion on gas in the riser and if it should be owned by the UBO/MPD committee. Paul gave an update on the IADC Joint Well Control/ MPD-UBO Committee Gas-In-Riser Workgroup meeting. Meeting notes can be found in a separate document from Paul.

Interactive presentation relating to Gas-In-Riser relationships was given by Paul and generated discussion on whether Gas-In-Riser topic should be handled and which committees should be involved. Should this topic be extended to Well Control committee etc.

Group consensus was that this issue should be addressed by the subgroup designated during last meeting (Gas-In-Riser group). Decision was made that Gas-In-Riser subgroup will continue to operate in its current setup.

D Pavel will discuss the issue with IADC Well Control Committee.
Suggestion was made to set up an experiment to verify questions/issues raised by Paul’s presentation (gas unloading from the riser).

Group consensus was that this issue should be addressed by the subgroup designated during last meeting (Gas-In-Riser group).

Class Certification Task Group – D Pavel provided an update
No discussions with DNV since the meeting in Bergen last year. Plan is to draft a formal letter to DNV between this meeting and next to reopen formal discussions again.

ABS held a meeting on December 8th to show current document and discuss comments that were provided. ABS are currently collecting and processing all the comments generated after the last meeting and will be resolved within the next 3 weeks. The proposed final draft document will be distributed and discussed again at ABS office before being submitted for internal review and approval. ABS to confirm the dates, tentative timeline is 4 weeks.

11:30: Break for Lunch

API16RCD Subcommittee – Martin Culen provided an update
All the comments from the latest ballot/revision were collated and need to be addressed as a group. Once this is finished the document will be sent to API and released to the public. Discussions ongoing on the testing standards. This should be addressed in a group discussion.

New Business
Presentation was given by Mo Plaisance on the current and future state of affairs at WCI.

Separate in to Breakout groups after a short coffee break

Managed Pressure Drilling (MPD) Breakout Summary- Per Cato / Sarah Shayegi

Subcommittee tasks for this meeting:

1. Finish IADC PMCD-subsea document  
   - IADC take over API task group?

2. Work on ABP subsea document  
   - Group 1 Chapters 9, 10, 11  
   - Group 2 Chapter 8, 12, 12, and 14  
   - IADC to take over API task group?

3. API 92 M
• Group started with discussion on PMCD document and outstanding action list and whether to finish it offline or within the current breakout section. Decided to finish with PMCD document offline once final changes are agreed upon today and finish the final draft by Thursday.
• Group reviewed and agreed upon comments/corrections from ABP document that are also relevant and should be transferred to PMCD document (up to section 9.5 of ABP document).
• Brian Grayson to provide required drawings/schematics for the documents
• Discussed how Riser Gas Handling relates to both ABP and PMCD operations and to what extent it should be covered in the documents.

HSE & Training Breakout Summary – Oscar Gabaldon

• MPD Fundamentals Core Curriculum
  o Up on IADC website for review by Committee
  o Committee to decide whether to vote this meeting or Q2

• MPD Supervisor Core Curriculum
  o To be worked in breakout session now
  o Continue working in Q2 Dubai
  o Potentially put out for revision after Q2, ideally for vote on Q3

• UBD Curriculum. Worked on Frankfurt 2013
  o Fundamentals and Supervisor levels
    • Group will work on documents offline.
    • Discuss in breakout session in Dubai
    • Present for review after Q2
    • For vote on Q3 meeting

• KSA
  o Request IADC for template or guidance to ensure that MPD and UBD curricula are aligned
  o Future development of KSA is possible from finally approved curricula

• Accreditation
  o Idea is to maintain WellCAP accreditation
  o Discuss instructors accreditation process

• HSE Guidelines
  o Will discuss in Q2 about updating given the specific relevance of MPD and techniques

Note: IADC Well Classification system may need to be revisited.

16:00: Meeting adjourned for the day.
DAY 2 - Wednesday February 11th 2014

Welcome, Announcements & Safety Moment

8:30 David Pavel opens the second day. David discussed selected venues for upcoming events, explaining the high cost areas - Rio and Stavanger and visa requirements for Rio. This will be discussed further during the day.Proposed changes to locations are as follows:

2016 - Galveston
2017 - Rio
2018 - Athens or Stavanger

09:00: Begin work on the sections.

Managed Pressure Drilling (MPD) Breakout Summary- Per Cato / Sarah Shayegi

Group split in to two smaller groups to continue working on ABP subsea document:

- Group 1 Chapter 8, 12, 13, and 14 (led by Per Cato)
- Group 2 Chapter 9, 10 and 11 (led by Sarah Shayegi)

Group 1

Group used inputs from PMCD subsea document and API 92M to form basis of the document and updated/modified chapter content accordingly to cover APB operations with subsea stack.

- Chapter 8: Planning, HSE, FEED and Design
  - Finished first draft (rev 0)

- Chapter 12: Well Control and Integrity
  - Started work on first draft (rev 0)

Group 2

Continue working on ABP subsea document:

- Chapter 9:
  - Start work on first draft (rev 0)

16RCD Breakout Summary – Martin Culen

Continue reviewing comments from the latest ballot/revision. Discuss testing standards.

HSE & Training Breakout Summary – Oscar Gabaldon

Continue work on MPD training curriculum.

12:00 Break for Lunch
13:00 meeting resumed

- David P recapped yesterday’s WCI presentation and WCI objectives and scope were discussed among the group. Concern was raised that WCI forming members should be better represented on IADC MPD/UBO committee with representatives attending committee meetings.

- It was suggested to have a Representative from IADC MPD/UBO committee to liaise with WCI. Paul Sonneman was nominated by David Pavel
- Group continued discussion on upcoming changes and initiatives to WellCap - IADC.
- Group discussed current state of UBO operations and well control training (Martin Cullen)
- Discussed MPD training course curriculum and extent to which it covers influx management and how it relates to conventional well control. (Oscar Gabaldon)
- Group discussed need for IADC accreditation for MPD training curriculum relating to MPD operations. This needs to be addressed with APIC accreditation body by HSE & Training subgroup. (Oscar Gabaldon).
- It was decided for a small group to get together to draft formal letter to Well Control Advisory Board and WCI. (David Pavel)
- Roland Goodman (API) discussed how to improve collaboration between UBO/MPD committee and relevant API task groups.
- Notify API about upcoming UBO/MPD committee meetings for API representatives to attend.
- API 92U is up for 5 year revision. Current plan to issue an Addendum first and issue a new edition in the next couple years.
- API can provide funding for a master editor to work on documents? (Roland Goodman)
- Distribute appropriate API representative contacts among the group (David Pavel)

14:45: Separate in to Breakout groups after a short coffee break

**Managed Pressure Drilling (MPD) Breakout Summary - Per Cato / Sarah Shayegi**

**Group 1**
Continue working on ABP subsea document:

- **Chapter 12: Well Control and Integrity**
  - continue work on first draft (rev 0)

**Group 2**
Continue working on ABP subsea document:

- **Chapter 9: Equipment**
  - continue work on first draft (rev 0)

**HSE & Training Breakout Summary – Oscar Gabaldon**
Continue work on MPD training curriculum.
15:30 Task groups gather back in the main meeting room

15:45: Meeting adjourned for the day

DAY 3 - Wednesday February 12th 2014

Welcome, Announcements & Safety Moment

8:30: David Pavel opens the meeting. Halliburton confirmed that they cannot sponsor Q3, 2015 meeting in Houston. A new sponsor is required. Meeting should be held at IADC facility in Houston, sponsor will need to cover catering costs. Search for Q2, 2015 meeting sponsor in Dubai is ongoing.

No 16RCD break out session, only MPD subgroup will be working today.

Breakout session started with MPD subgroup remaining in the main meeting room with group drafting a letter to Well Control Advisory Board moving to a smaller room.

Managed Pressure Drilling (MPD) Breakout Summary- Per Cato / Sarah Shayegi

Both subgroups remained in the same room and continued working on ABP subsea stack document.

- **Chapter 9:** Equipment
  - finished work on first draft (rev 0)
- **Chapter 12:** Well Control and Integrity
  - finished work on first draft (rev 0)

10:00 Coffee Break

- **Chapter 13:** Riser Gas Handling
  - Finished work on first draft (rev 0)
- **Chapter 14:** Engineering and Design
  - started work on first draft (rev 0)

Discussed table of contents. Chapter 14: Engineering and Design is outstanding. Group discussed what scope of work before the next meeting in Dubai Q2.

Action Items:

- Update PMCD-SS document with illustrations – Sara S.
- Forward finished draft of PMCD-SS document to API- Sara S.
- Forward group 2 word-file (ABP-SS) to Per Cato – Sara S.
- Merge Group 1 & 2 word files to one file (ABP-SS) - Per C.
Forward (ABP-SS draft to Petrobras. Per C.
Supply draft of chapter 14: Design and Engineering – End of March – Petrobras (incl. Dennis M& ABS)
Distribute draft ABP-SS document to committee for review – Per Cato
Collect comments to ABP-SS document before Dubai meeting – Per Cato
Review comments to ABP-SS document in Q2 meeting – April 15th

10:00 Break

**16RCD Breakout Summary**

No break out session

**HSE & Training Breakout Summary**

No break out session

**11:45 Task groups gather back in the main meeting room**
David Paul presented a draft letter to Mark Denkowski IADC VP of Well Control Advisory board to the group.

**12:00: Meeting adjourned**

**Next Meetings:**

24 – 26 August 2015: IADC, Houston, TX – Sponsored by M-I Swaco/Schlumberger
8 – 10 December 2015: London – Sponsored by Managed Pressure Operations (MPO)
14 – 15 April 2015: Moody Gardens, Galveston, TX: Sponsored by TBD
## Appendix 1: Attendees List

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<thead>
<tr>
<th>Name</th>
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International Association of Drilling Contractors
UBO & MPD Committee Meeting
IADC - Houston, TX
10 - 12 February 2015

Attendance Sheet

Appendix 2 – MPD/UBO Committee Document Status
Appendix 3: Action Item Tracker snapshot as of