	<p align="center"><b>IADC UBO &amp; MPD Committee Meeting MoM</b></p>	<p align="center"><b>Q1 Meeting</b> 4-6 June 2019 Mays Business School, Houston</p>
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**Day 1 – Tuesday, 4 June 2019**

**0800 to 0830**

Breakfast sponsored by AFGlobal

**0830 to 1000**

**Welcome, Introductions, and Safety Moment**

Oscar Gabaldon welcomed the UBO & MPD Committee and thanked AF Global for sponsoring the meeting. Brian Piccolo and (Texas A&M representative) delivered a facility briefing. Everyone briefly introduced themselves. Sagar Nauduri volunteered to take minutes.

Safety Moment - Oscar Gabaldon said that a young engineer 'Bhavin Patel' lost his life recently at an international work location. Bob Goodwin provided more details and added that a service was getting conducted that afternoon.

Oscar pointed out the importance of health and requested the audience to take good care of their health and pointed out that the conditions we live in on and off location are not always conducive to maintaining good health.

Oscar Gabaldon asked the committee for any changes to the Q1 2019 meeting minutes. The minutes were approved as written.

Leesa Teel referenced the IADC Anti-trust Guidelines which applies to the meeting.

**Committee Meeting Schedule**

**Q3 2019**, 17-19 September. Hosted by IADC at their HQ, Houston. Sponsored by Beyond Energy, Contact: Mike Vander Staak.

**Q4 2019**, 3-5 December. Hosted by IADC at their HQ, Houston. Sponsored by Weatherford. (Chevron not available for sponsoring the event). Holly has reserved meeting rooms at IADC HQ for the Q4 3-5 December 2019 meeting. (Bob Goodwin is the contact)

**Q1 2020**, 23-24 April, in conjunction with the 2020 IADC/SPE MPD and UBD Conference and Exhibition. Hosted at Grand Hyatt Hotel, Denver. Sponsored by Pruitt. Martyn Parker is the contact.

**Q2 2020**, June, dates TBD, Rio de Janeiro, Petrobras to host. Sponsored by AFGlobal. Contact: Brian Piccolo.

**Q3 2020**, September, dates TBD, Stavanger, Hosted and sponsored by Equinor. Contact: Ragnar Fredriksen.

**Q4 2020**, December. Oscar asked for potential volunteers and Halliburton, Blade and API offered to sponsor the meeting. API volunteered to host the meeting as well. Will be finalized in the next meeting.

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**2021 IADC/SPE MPD and UBO Conference & Exhibition – Kuala Lumpur.**

Leesa Teel informed that SPE felt that there was a conflict between MPD Conference and Drilling Conference as they are happening at similar time frames. So there was a request to move the MPD-UBO conference to the fall.

Oscar said probably early September so that it is sufficiently before the ATCE which usually happens in October time frame. There was general consensus to that move.

**Subcommittee Reports**

**MPD – Bob Goodwin:** The final IME document is currently under review. Team was initially planning on meeting on Skype between the committee meetings to discuss the IME document; however, could not make it because of schedule conflicts. Work submitted by the various volunteers requires review. When the review has been completed, the work will be distributed to the full committee.

**Gas in the Riser – Otto Santos:**

(Don't have notes)

**DGD –Sara Shayegi:**

Working on the CML document. Making progress.

**HSE – Jon Thain:** IADC is figuring out training requirements. The feedback was limited. A small 4hr MPD training course was discussed. A request was made to Leesa Teel if the committee can talk to the IADC representatives to get more clarity. Leesa said she will see if Mark Denkowsky (IADC) was available to meet.

These was some discussion about where the course will reside – Wellsharp vs Wellcap.

**MPD Influx Control Work Group –Bob Goodwin:** Bob Goodwin's comments from above. (MPD).

**API 16 RCD - Joe Karigan:**

Lot of progress was made in the previous sessions.

**API RP 16Q, Dave Lewis, Chair, API 16Q:** Oscar said a video conference from 13:00 to 15:00 hrs was planned on Wednesday 5-June and asked all members interested in that call to join that conference planned from a different break-out session room.

A request for participation was distributed to the committee. Volunteers' contact information was sent to the Chair, Dave Lewis. Mr. Lewis will distribute an invitation to a future meeting.

**API Acknowledgment of Committee Contributions:** Leesa Teel said that API is working towards recognizing this UBO-MPD Committee's contributions. API RP 92S has text that gives credit to this committee in the document's 'Introduction' section. API 92U has similar text. Rolland of API said all existing and future documents that are developed with the help of this committee will have this text of recognition.

**10:30 to 12:00:**

**New Business**

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**API 16Q Committee:** Oscar said a meeting will take place at Blade Energy Office on June-5, Wednesday from 1300 to 1500 hrs. Any interested members can join this as a separate room will be used to enable video conferencing.

**Video – IOGP:** Paul Sonnemann (SafeKick) brought to everybody's attention that IOGP is planning to release a video about a well control incident that occurred 2+ years ago that involved use of MPD and did not have positive feedback about MPD. Sara Shayegi (Shell) and Chris Scarborough (BP) provided some details about the related incident. Committee wanted to see the video after lunch.

**NRVs:** API Specification 7 NRV. Sara said that this document was close to revision???

**12:00 to 13:00**

**Available Rooms for Breakout Sessions** – Brian Piccolo of AFGlobal gave a list of rooms available for the breakout sessions. Oscar Gabaldon helped with the room allocation.

**Lunch** – Sponsored by AFGlobal. Oscar Gabaldon thanked AFGlobal for sponsoring lunch.

**13:00 to 14:30:**

**Video – IOGP:** Paul Sonnemann (SafeKick) showed the video to the committee.

There was lot of discussion on several aspects of the video. The committee felt the written report generated for this incident had more information, compared to the video that was missing several pieces of information about the incident and MPD. The committee recognized and understood that it was difficult to produce a small video that could comprehensively cover such an event.

Discussion also focused on educating potential MPD users about planning, training and safe well-control practices. Committee decided to have a small task group to create a liaison with IOGP offering help – anything that they might be ask. The task group consisted of Paul, Chris, and Sara.

**14:30 to 16:00**

The committee separated into the various work groups for the afternoon session.

**Breakout Session**

MPD/Influx Management Annex  
UBO  
Gas in the Riser  
API 16 RCD  
DGD and HSE & Training

**16:00 to 16:30**

**IADC Representative (Mark Denkowski)**

Mark Denkowski, IADC Training, came for a quick discussion about the IADC Training. There was discussion with the committee about the 4hr training course. Lot of feedback from the committee and Mark.

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Day adjourned.

**Day 2 – Wednesday, 5 June 2019**

**Welcome, Introductions, and Safety Moment**

Oscar Gabaldon welcomed the UBO & MPD Committee and thanked IADC for hosting the event and AFGlobal for sponsoring the meeting.

Oscar has informed us that for today we will break out into the various groups to continue with the break out sessions. Estimated finish time for the committee meeting will be 4:00 – 4:30.

(Oscar – all the notes and summary of the Influx management annex group went into the final closing comments.)

**8:30 to 12:00**

The committee separated into the various work groups for rest of the day.

**12:00 to 13:00**

**Lunch** – Sponsored by AFGlobal.

**13:00 to 16:00**

The committee separated into the various work groups for rest of the day.

Day adjourned.

**Day 3 – Thursday, 6 June 2019**

**8:30 to 12:00**

The committee separated into the various work groups for morning sessions.

**12:00**

**Recap from Subcommittees Breakout Sessions**

Committee members reconvened after the breakout sessions for a recap.

**API 16 RCD – Joe Karigan:** Good session. Completed review of all of Edition 2 interpretations, additional language for RCD testing requirements with multiple seal housings, IADC acknowledgement section similar to language in API 92 series. Agreed in principle to incorporate API 16A current (4th) edition and progressed incorporation of Annex B & C.

**MPD/Influx Management Annex – Bob Goodwin:** Lot of progress was made in the last few days. The committee has finished a complete pass on the document. Day 1 was spent on section 4, day 2 on section 5 and day 3 on section 6. All the content was reviewed, and some of the pieces that needed additional work was allocated to new volunteers.

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**Volunteers:**

- IME Calculations (3.4 section) and H<sub>2</sub>S Considerations (Section 3.1.1.1) – Martin Cullen
- Section 6 – Glenn-Ole Kaasa
- Section 4.2 – Bob Goodwin

Additional meeting: A Skype meeting is planned to discuss progress made by the volunteers on the Influx Management Annex.

Action items from volunteers are requested to be sent to Bob Goodwin by July-09, 2019.

Bob to distribute the compiled document for comments by July-12, 2019.

Skype Meeting: on July 16 2019, 0800 hrs CDT.

Stretch Goal: Document to be released to the committee review by December 25, 2019.

**16Q – Oscar:** Need to expand the MPD scope on the API RP16Q. A meeting will be scheduled to start working on this.

**Training – Jon Thain:** Discussed the curriculum and mode progress. It was decided to make the 4hr course first and then refocus on the full course. IADC needs to justify the business case. People who want to contribute to the data file – send email to Jon.

Mike Denkowski IADC will to move forward and work with the group. A small Houston based group was planned to meet with IADC to review the curriculum and instruction etc., for the 4hr training course. Mike Vander Staak and Jon volunteered to be part of this group.

**Gas in the Riser – Oscar:** Continued discussion and review of the document. Otto emailed comments and they were reviewed. Making steady progress.

**Closing Comments:**

Oscar thanked IADC for hosting the event, AF Global for sponsoring the event, and all of the participants for their attendance and participation.


The meeting was called to a close at 12:30 pm June 06, 2019.

Lunch provided by AF Global.

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Appendix 1. Attendance **List**

**Commented [OG1]:** I don't have the attendance list from the meeting. If available, IADC to add here

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Appendix 2. API 16 RCD Workgroup session minutes.

- Attendees:
  - Micah Spahn, Joe Karigan, David Postel, Brian Piccolo, Shawn McClosky, Azfar Mahmood, Tom Askeland, Bas Liezenberg
- It was noticed that the meeting attendees are all RCD Manufacturer's so any conclusions may need vetting by industry.
- Update presented by Micah Spahn from attendance of the API Winter Standards meeting
  - SRRR Form, TG approved for work on Ed. 3
  - API Monogram Program, discussion has begun with monogram program committee, email from API to Micah Spahn will be forwarded to the Distribution Group
- General discussion pertaining to API reference documents 16A & 6A reconfirmed that 6A will be by latest edition but that 16A all OEMs need to review for pertinence.
  - If we utilize the latest edition (4th) it will allow for multi-tiered classification of hardware, including Utility Bolting for non-pressure retaining, controlling or load path assemblies, e.g. assembly hardware for the sealing assemblies.
- Guilherme's review of Annex B & C applicability was received today (4-11) and was visited briefly but not in detail yet.
- Review all of Edition 2 clarification requests for applicability in Ed. 3 task was introduced and agreed upon as necessary to not carry these issues forward into the new edition.
- Discussed marking language for 'dimensionally interchangeable major subcomponents', i.e. bearing or sealing assembly as well as adding these components to the monogram program to match with how industry is utilizing RCDs.
  - Task group is aware that we need to ensure API monogram program requirements are met (Functional, Technical, & Manufacturing Requirements) as well as prevent past issues of marked subcomponents.
- It was decided that additional verbiage is necessary to clarify the testing requirements of RCDs that have multiple seal assembly housings; this verbiage will be similar to an existing note pertaining to the dynamic test procedure.

**Attendance:**

First Name	Last Name	Company Name
Brian	Piccolo	<b>AFGLOBAL CORPORATION</b>
Austin	Johnson	<b>AFGLOBAL CORPORATION</b>
Billy Joseph	Walker	<b>AFGLOBAL CORPORATION</b>
Roland	Goodman	<b>AMERICAN PETROLEUM INSTITUTE</b>
Mike	Vander Staak	<b>BEYOND ENERGY SERVICES &amp; TECHNOLOGY</b>
Oscar R	Gabalton	<b>BLADE ENERGY PARTNERS</b>
Alexa	Gonzalez	<b>BLADE ENERGY PARTNERS</b>
Serkan	Cenberlitas	<b>BLADE ENERGY PARTNERS</b>



**IADC UBO & MPD  
Committee Meeting  
MoM**

**Q1 Meeting**  
4-6 June 2019  
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Houston

Martin	Culen	<b>BLADE ENERGY PARTNERS</b>
Chris G	Scarborough	<b>BP</b>
Jeffrey	Graybeal	<b>DIAMOND OFFSHORE</b>
Ragnar	Fredriksen	<b>EQUINOR</b>
Joseph M	Karigan	<b>HALLIBURTON ENERGY SERVICES</b>
Brian	Grayson	<b>HALLIBURTON ENERGY SERVICES</b>
CJ	Bernard	<b>HALLIBURTON ENERGY SERVICES</b>
Isabel	Poletzky	<b>HALLIBURTON ENERGY SERVICES</b>
Leesa	Teel	<b>IADC</b>
Glenn-Ole	Kaasa	<b>KELDA DRILLING CONTROLS AS</b>
Yuanhang	Chen	<b>LOUISIANA STATE UNIVERSITY</b>
John Edward	Conn	<b>M-I SWACO</b>
Svein	Hovland	<b>NEWTECH SERVICES</b>
Ashish	Jain	<b>NOBLE DRILLING SERVICES INC.</b>
Andre Alonso	Fernandes	<b>PETROBRAS</b>
Guilherme S	Vanni	<b>PETROBRAS</b>
David	Postel	<b>REGIONAL MARINE &amp; ENGINEERING SERVICES</b>
Paul	Sonnemann	<b>SAFEKICK</b>
Zhaoguang	Yuan	<b>SCHLUMBERGER DRILLING GROUP</b>
Sara	Shayegi	<b>SHELL EXPLORATION &amp; PRODUCTION</b>
Gavin	Humphreys	<b>STENA DRILLING LTD</b>
Jonathan	Thain	<b>TRANSOCEAN</b>
Peter Allen	Dugas	<b>WEATHERFORD</b>
Vahidin	Alajbegovic	<b>WEATHERFORD</b>
Robert	Goodwin	<b>WEATHERFORD</b>
Thomas	Gee	<b>WEATHERFORD</b>