

# International Association of Drilling Contractors

## UBO & MPD Committee Meeting 18-20 September 2018 Minutes

### Maersk Training Aberdeen, Scotland - Sponsors: Maersk Training & Weatherford

<b>Agenda 18 September 2018</b>	
8:00 – 8:30	<b>Welcome Coffee – Sponsored by Weatherford</b>
8:30 – 8:45	<p><b>Call Meeting to Order; Andre Alonso Fernandes</b></p> <ul style="list-style-type: none"> <li>• Facility Orientation &amp; Introductions, Maersk Training, no expected drills;</li> <li>• Assigned Minute Taker: Adebowale Solarin;</li> <li>• IADC Anti-Trust Guidelines; IADC Representative mentioned;</li> <li>• Safety Moment Oscar Gabaldon volunteered.</li> </ul>
8:45 - 9:00	<p><b>Brief recap of Q2 / 2018 Meeting; Andre Alonso Fernandes</b></p> <ul style="list-style-type: none"> <li>• Review / discussion of 2018-Q2 Meeting minutes</li> </ul> <p>Andre thanked Weatherford/Maersk Training for sponsoring He followed with a recap of the last committee meeting: Sub-committee reports Categorization matrix Feedback from the MPD conference discussed. The committee approved the minutes, as there was no contest to its content. BSEE NTL Subsea BOP Group – Sara Shayegi latter confirmed that BSEE received the material; BSEE replied that they would like to add more information to the document.</p>
9:00 - 9:30	<p><b>Discuss 2018 - 2019 meeting schedule</b></p> <p><b>Q4 2018:</b> December 4 – 6, Houston. Proposed Sponsor: Nabors, J. Pinzon to confirmed.</p> <p><b>Q1 2019:</b> April 11-12, Amsterdam. Sponsor and venue TBD Sponsors and Venue needed. Venue latter indicated that could be at Shell's office in Amsterdam. <b>Sponsor needed.</b></p> <p><b>Q2 2019:</b> June TBD, Houston. Sponsor: AFGlobal. Confirmed by Brian Picollo. At their facility June 4-6.</p> <p><b>Q3 2019:</b> September TBD, Houston. Sponsor: Chevron to confirm (Calvin Holt) Sent email to Calvin asking for confirmation. Dates To be discussed.</p> <p><b>Q4 2019:</b> December 3-5, Houston. IADC can host (venue already reserved). <b>Sponsor needed.</b></p> <p><b>2020 MPD</b> conference Location Denver To coincide with the first meeting of the year btw mid march to mid April.</p> <p><b>Q2 2020:</b> Second meeting of the year suggested to be early June. A non-USA venue suggested. Rio. Copenhagen, Norway or Aberdeen. Volunteers and sponsors needed. Roland suggested API can host at a Washington DC venue.</p>
9:30 – 10:00	<p><b>Subcommittee Reports</b></p> <ul style="list-style-type: none"> <li>• Current initiatives being worked / Document Status</li> <li>• Industry inquiries</li> <li>• New work suggested / planned</li> <li>• Next plans of action</li> </ul> <p>1. <b>UBO Subcommittee</b> –Leiro Medina Reviewing API 92U. Aim to slim down the document and make it more specific. Collating review comments and feedback</p> <p>2. <b>MPD Subcommittee</b> –Martyn Parker : Working on the Influx Management annex. Some procedures pending but the document is near completion. Aim is to have a draft ready for circulation this year. Roland - 92S to be published this year. The 92S document was published in October.</p> <p>3. <b>Riser Gas Subcommittee</b> – André Fernandes: Sara sent out a draft terms of reference but only a few contributed. LSU university wanted to perform experiments relevant to the industry but awaiting feedback. To organize a webex meeting.</p> <p>4. <b>DGD Subcommittee</b> – Dave Smith: Working on CML document 92C. Investigating how the benign shallow intermediate hole section can be extended without compromising WC.</p>

	<p>5. <b>HSE / Training Subcommittee</b> –Leiro: Training curriculum document has been reviewed and sent out to IADC for comments. Awaiting feedback.</p>
10:00 - 10:30	<p><b>Coffee Break – Sponsored by Weatherford</b></p>
10:30 – 12:00	<p><b>Subcommittee Reports (continued)</b>  <b>MPD Influx Control workgroup report</b> – Andre Alonso Fernandes:  Working on the document. Contributions from Harish Patel to be reviewed. To review the overview of the document to check for items/topics that might have been left out (while keeping in mind it is an annex to an existing document)  <b>Liaison Reports</b>  1. <b>Regulatory Liaison</b> – Konstantin – The list was sent out and populated but we need to discuss next actions. Approach to the different authorities and the value/Objectives of this exercise to be discussed.  2. <b>Well Control Liaison</b> – Shut down. At the most recent API meeting, they discussed about training and confirmed agreement with this committee’s work on influx management.  3. <b>Certifying Authority Liaison</b> –Harish Patel - No update   <b>API Task Group Reports</b>  1. <b>API 16RCD</b> – Martin Culen No update. Martin sent the material afterwards.  2. <b>SBP, subsea stack (92S)</b> –Roland API - 92S to be published by year end  3. <b>PMCD, subsea stack (92P)</b> – André Alonso Fernandes Not yet submitted for publication. It was circulated for comments and feedback has been received. Aim for publishing Q1 2019.</p>
12:00 – 13:00	<p><b>Lunch – Sponsored by Weatherford</b></p>
13:00 – 13:15	<p><b>New Business to be Discussed</b></p> <ul style="list-style-type: none"> <li>• Issues from the floor <ul style="list-style-type: none"> <li>• Martyn: some land based systems deploy RCDs without PRVs in non-MPD applications. Requesting data to prove that the RCD elements can be blown earlier than their rating on sudden closure or sudden pressure spikes or plugged choke situations where there is no PRV.</li> <li>• Andre: BOP /riser negative pressure imbalance especially in Mud Cap scenarios in ultra-Deepwater. Eg in Brazil 1200m wd, the mud cap may be below the BOP during drilling of depleted reservoirs.</li> <li>• Vanni: The above is API 16A territory and we should contact them. Doubt about the need of a floating mudcap document? Roland sent the contact of the API 16A responsible person</li> <li>• Borre F: Top Hole Drilling with returns to seabed. Insufficient guidance standards or recommended practice for tophole drilling in deepwater with RMR or MPCementing. What should the next step be if this is considered a major problem in the industry? Make an agenda item for the next meeting. Borre to make a short presentation. We discuss the future and best avenue where it would be treated. To consider making a recommended practice. Relevant to API 96 and 65. Note: API 65 was recently released, so it will not change in a near future.</li> <li>• O.Gabaldon/Vanni: Discussion with the API 16Q and 16F groups regarding riser analyses with applied back pressure, negative pressure effects discussed above, recoil and emergency disconnect sequences under pressure. An annex to the recommend practice can be developed</li> <li>• Identified that it is necessary to add an agenda item on interfaces with other committees and standards.</li> </ul> </li> </ul>
13:15 – 16:00	<p><b>Working Sessions</b>  <b>MPD:</b> Continue work on Influx Management Document – Concluded work on the training and drills. Continued with detection and control (management).  <b>DGD:</b> TBD review to the barrier diagram schematics will include separate barrier diagrams for case with and without riser margin in addition to the case with a surface annular (RGH) installed.</p>

16:00 - 16:15	<b>Reconvened Committee and adjourn for the day</b>
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<b>19 September 2018</b>					
8:00 – 8:30	<b>Welcome Coffee – Sponsored by Weatherford</b>				
8:30 – 8:45	<b>Welcome for Day 2 &amp; open discussion as required; Andre Alonso Fernandes</b> The group initiated a discussion on opening times for the riser annular device. The group did not see the need to define a more restrictive time for the riser annular device operation.				
8:45 – 10:00	<b>Review volunteer work done for rig categorization</b> Andre recapped Stena's 6x4 matrix Konstantin presented Maersk's 3x3 matrix. Brian Picollo presented AFG 2x4 matrix. It doesn't categorize non-MPD rigs.				
10:00 – 10:30	<b>Coffee Break - Sponsored by Weatherford</b>				
10:30 – 12:00	<b>Development of new proposed rig categorization system</b> The participants developed a new updated matrix during the meeting. Last category regarding documentation/Procedures to be fine-tuned next meeting.				
	<b>IADC MPD Readiness Levels</b>		<b>Rig A</b>	<b>Rig B</b>	<b>Rig C</b>
	<b>MPD Riser Equipment</b>	• X-Over • DSIT • FS	<b>Y</b>	<b>Y</b>	<b>N</b>
		• RCD and adaptor	<b>Y</b>	<b>N</b>	<b>N</b>
	<b>MPD Topside Equipment</b>	• Pipework inc BM, MM • Interfaces • BM	<b>Y</b>	<b>Y</b>	<b>Y</b>
		• MPD Manifold &Control	<b>Y</b>	<b>Y</b>	<b>N</b>
	<b>MPD Procedures</b>	• Xxxxx • Xxxx	<b>Y</b>	<b>Y</b>	<b>N</b>
12:00 – 13:00	<b>Lunch – Sponsored by Weatherford</b>				
13:00 – 14:00	<b>Workgroups open discussions</b> <b>DGD:</b> Borre Fosli went through the barrier diagrams for CML. He described how CML can be utilized for safe influx management up the riser. <b>UBO:</b> Leiro gave an overview of RMD, its application and characteristics. The aim is to eventually accommodate guidelines for RMD in API 92U Roland: It can be included as an appendix/annex in API 92U  Discussed venue for Q2 2020. Narrowed down to Rio (venue & sponsor confirmed) or Aberdeen (venue not confirmed, sponsor confirmed-AFG) or Stavanger (venue and sponsor not confirmed). AFG volunteered to sponsor food for any venue – to provide cost estimate. Standards Development: Roland offered to do a presentation at the next meeting.				
14:00 - 14:30	<b>Coffee Break - Sponsored by Weatherford</b>				
14:30 – 15:45	<b>Break-out into workgroups</b>				

	Continued work on Influx Management Document
16:00 – 16:15	<b>Reconvene committee</b> <b>Short recap of break-out sessions, and adjourned meeting</b>

<b>20 September 2018</b>	
8:00 – 8:30	<b>Welcome Coffee – Sponsored by Weatherford</b>
8:30 – 8:45	<b>Welcome for Day 3 &amp; open discussion as required; Andre Alonso Fernandes</b>
8:45 – 12:00	<b>Break-out into workgroups as needed</b> <b>MPD:</b> Continued work on Influx Management Document Stopped at ch 6.1.3 Harshad and Oscar G to continue work
12:00 – 13:00	<b>Meeting adjourned</b>

Annex 1 – Signing list



International Association of Drilling Contractors  
 UBO & MPD Committee Meeting  
 Maersk Training Aberdeen - Aberdeen, UK  
 18-20 September 2018

Clyde

SIGN-IN

Initial if Present	First Name	Last Name	Company Name	Email (Only if new)
[Signature]	Otto Alcantara	Santos	LSU	
[Signature]	Muhamad Harith	Hatta		
[Signature]	Harshad	Patil	WEATHERFORD	
[Signature]	Eng Akram	Nabiyev	AIR DRILLING ASSOCIATE, INC	
[Signature]	Roland	Goodman	AMERICAN PETROLEUM INSTITUTE	
[Signature]	Leiro David	Medina	BEYOND ENERGY SERVICES & TECHNOLOGY CORP	
[Signature]	Charles	Leslie	BLADE ENERGY PARTNERS	
[Signature]	Oscar R	Gabalidon	BLADE ENERGY PARTNERS	
[Signature]	Calvin	Holt	CHEVRON	
[Signature]	Dave	Smith	ENHANCED DRILLING	
[Signature]	Børre	Fossli	ENHANCED DRILLING	
[Signature]	Ragnar Marcelius	Fredriksen	EQUINOR	
[Signature]	Paul	Francis	FENTEN LTD	
[Signature]	Christopher James	Bernard	HALLIBURTON ENERGY SERVICES GROUP	
[Signature]	Konstantin	Puskarskij	MAERSK DRILLING	
[Signature]	Adebowale	Solarin	MAERSK DRILLING	
[Signature]	Kim	Laursen	MAERSK TRAINING, INC	
[Signature]	Jacob	Petz	MAERSK TRAINING, INC	
[Signature]	Dennis	Moore	MARATHON OIL COMPANY	
[Signature]	Juan A	Pinzon	NABORS CORPORATE SERVICES, INC.	
[Signature]	Shantur S	Tapar	NATIONAL OILWELL VARCO WELLBORE TECHNOLOGIES	
[Signature]	Jon	Thain	OCEAN RIG	
[Signature]	Andre Alonso	Fernandes	PETROBRAS	
[Signature]	Roar	Sognnes	PETROLEUM SAFETY AUTHORITY NORWAY	
[Signature]	Mette Elise E.	Vintermyr	PETROLEUM SAFETY AUTHORITY NORWAY	
[Signature]	Siv Adelheid	Adelheid Eeg	PETROLEUM SAFETY AUTHORITY NORWAY	
[Signature]	Martyn	Parker	PRUITT	
[Signature]	Paul	Sonnemann	SAFEKICK	
[Signature]	Sara	Shayegi	SHELL EXPLORATION & PRODUCTION	
[Signature]	Michael	Cadd	SHELL UPSTREAM INTERNATIONAL	
[Signature]	Robert C	Goodwin	SIGNA ENGINEERING CORP TEXAS A&M UNIVERSITY IADC STUDENT CHAPTER	
[Signature]	Jerome J	Schubert	IADC STUDENT CHAPTER	
[Signature]	Steve Lynn	Richert	WILD WELL CONTROL INC.	
[Signature]	Gavin	Humphrey	STENA DRILLING	
[Signature]	Konstantin	Puskarskij	MAERSK DRILLING	
[Signature]	Jan	LESLEE	BLADE ENERGY	
[Signature]	CHRIS	FRENCH	ENHANCED DRILLING	
[Signature]	Brian	Piccolo	AFGlobal	

MS. MICAH SPAIN PRUITT