



Macaé, May 05th 2016

**MINUTES OF THE IADC-BRAZIL OPERATIONAL & TECHNICAL COMMITTEE MEETING
HELD ON MAY 05th, 2016 FROM 1:30 p.m. TO 4:00 p.m. AT OOG'S OFFICE IN MACAE.**

Present at this meeting were the following

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| - Jason Kovarik – OOG | - Eduardo Hamaguchi – Etesco |
| - Thaísa Aleixo – IADC-BRAZIL | - Carlos Gandolpho – Schahin |
| - Bruno Manfredini – Transocean | - Tatiana Fonseca – Brasdrill |
| - Carlos Alberto Magalhães - QGOG | - Mateus Tondo – Etesco |
| - Leandro Diniz Brandão – OOG | - Paulo Sérgio G. Pinto – Petrobras |
| - Marcos Sampaio – OOG | - ThiagoAmato – QGOG |
| - Fabbio Leito – Cameron | - Paulo Cury – QGOG |
| - Karine Alves – QGOG | - Marcio S. Santos – QGOG |
| - Eugênio Campos – OOG | - Diligio Nascimento – QGOG |
| - Fabiano Guimarães – Brasdril | - Cid Augusto Costa – OOG |
| - Henrique Nogueira – Brasdril | - Paula Salles – Paragon |
| - Anderson Buzzo – Brasdril | - Gustavo Nobre - Paragon |
| - Antonio Lameira – Transocean | - Dejair Ramos – Pacific Drilling |
| - Bruno Lodetti –Etesco | |

The agenda for this meeting was to set the Operational & Technical Committee's Goals for 2016. The focus was to achieve results and meet the Operational and Technical purposes. The topics of discussion were as follows:

- Critical Equipment - ANP definitions
- GM presentations (please bring new ideas)
- Barrier management
- Identify a new leader
- PB/IMCA/WSOG.

The following items were agreed upon

- The new leader for the Tech/Ops committee will be Marcos Sampaio as Jason Kovarik won't be able to carry on as a leader however he will provide support for Marcos Sampaio.

- There was discussion on a few topics for the next General Meeting and some of the suggested topics are as follows:
 - OES Big Data;
 - Normam 27 Helideck;
 - MPD
- MPD was suggested as a topic due to the necessity of training personal to operate MPD. The DCs companies need an approved course by IADC, if possible. It is necessary to check if Well Sharp has MPD training.
- There was discussion on some topics where the DCs need further explanation from Petrobras. They will propose a meeting with José Roberto from Petrobras to see their point of view in regards to the following items:
 - Choke Manifold – Test pressure required;
 - Target Flange;
- As one of the goals for 2016, the committee will work on a minimum list of critical equipment linking with risk analysis. Petrobras already has a list made together with Transocean, OOG and QGOG thus the committee will check if Petrobras will allow IADC to use this previous list. If so the committee will start working with it to share with the other DCs aiming to make a new list including the other companies.
- Once the final critical equipment list is finalized the committee plans to do the same for critical systems and critical procedures.
- Another goal for 2016 is preservation and conditioning. This topic will be the target once the critical equipment list is finalized.
- In regards to Petrobras DP status, they will not include a 5th stage. However they are working to change the focus of advisory, aiming to have time to make a decision before a yellow sign. Once they finalize their plan, it will be presented to IMCA for consideration of changing the advisory worldwide.
- In regards to barriers management the idea is to present SGIP concepts and to share the best practice among DCs.
- IMCA is analyzing a list of WSOG from many DCs in Brazil and once they give feedback a new meeting will be booked with the DCs to share the comments.

The following items were discussed yet they remain open

- There was presentation of some extra topics for further discussion in the forthcoming meetings. The topics are as follows:
 - BOP NXT Pod water ingress;
 - NOV new technologies;
 - Petrobras integrity inspections & Maintenance assistance;
 - Challenges on rig projects in Brazil;
 - Preservation and decommissioning – Lay up;
 - COC
 - BOP Acoustic Standard;
 - BOP GE 5k Flowmeter;



- Annular Rubber;

Actions

- Bruno Manfredini is to check with Guilherme Vanni from Petrobras to see how they have been training their personal and is to check with the IADC MPD committee their progress as well.
- Paulo Sérgio is to check with Petrobras the possibility of putting the critical equipment list available.
- Bruno is to check with José Roberto from Petrobras a date to have a meeting to discuss about choke manifold and target flange.

Next Meeting

The next meeting for the Operational/Technical committee will be upon confirmation. The committee will open a forum prior to the meeting and make sure enough people will be willing to attend the meeting.