



Macaé, October 22nd 2015

**MINUTES OF IADC-BRAZIL OPERATIONAL TECHNICAL COMMITTEE MEETING
HELD ON OCTOBER 22nd 2015 10:00 a.m. TO 12:00 p.m. AT GE'S OFFICE IN MACAE AND
VIDEO CONFERENCE WITH SEADRILL'S OFFICE IN RIO DE JANEIRO.**

Present at this meeting were the following

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| - Geovanny Soares – GE (Macaé) | - Victor Lerdeira – GE (Macaé) |
| - Thaísa Aleixo – IADC-BRAZIL (Macaé) | - Douglas Souza – GE (Macaé) |
| - Tony Cox – IADC (Macaé) | - João Batista – Cameron/Onesubsea (macaé) |
| - John Guy – JSH Drilling Tools (Macaé) | - Fabio Leite – Cameron (Macaé) |
| - Bruno Muniz – GE (Macaé) | - Mauricio Aguiar - Seadrill (Rio) |
| - Ricardo Neves – GE (Macaé) | - Guilherme Vanni – Petrobras (Rio) |
| - Wendrell Cardoso – GE (Macaé) | |

The agenda for this meeting was displayed on the screen. The focus was to review the Operational Technical Committee Goals set for 2015. The topics of discussion were as follows:

- Review of the actions of the last meeting minutes
- Review Goals set for 2015
 1. Managed Pressure Drilling
 2. Standard Equipment List for ANP
 3. Well Control Equipment
- Discuss Technical Presentations for the upcoming IADC meetings
- Corporate Committees – Status
- Presentation to the navy - Opportunity for the Chapter to have closer relations with the local naval personnel
- Schedule the Committee's next meeting
- Open Forum
- Close out

The following items were agreed upon

- Guilherme Vanni and Mauricio Aguiar presented updates from the MPD meeting in Houston. The presentation will be sent to everyone in the meeting.
- The OIM companies are interested to know what Petrobras's plans are in relation to MPD. So that, they have enough time to align their company to comply with the new requirements.



- There is a necessity to adapt to a non-conventional use of risers, operating with an empty riser. The API 16S will cover it on its next cycle.
- It was agreed to open a special forum to discuss the main points related to the riser to be taken to the IADC International committee. Items such as acceptability, analyses, MPD interference in the riser will be included. The Forum will be booked for the second week in December.
- In regards to the list of equipment for ANP, it was agreed that the best way of moving forward would be getting the equipment list from the DC and making a standard list to send to IADC corporate for approval and then to ANP as a suggestion.
- The Navy wants a simple presentation about drilling as every 3 years they change their personnel, and they need to do the inspections without knowing enough about the topic.
- IADC will have a booth at the OTC if anyone wants to visit.

The following items were discussed yet they remain open

- IADC corporate is compiling a database for Well Integrity. However, in Brazil Tony has not received any reply from the DCs with comments/suggestions for the Well Integrity document sent by him.
- According to the OIM companies, they have not been involved in inspections and repairs of their equipment. They are worried about the liability in the event of an accident as 3rd party companies are carrying out inspection of their equipment.
- In regards to the general meeting presentations, Komsberg Oil & Gas Technology, Franks International and Caterpillar are interested in presenting. However, the presentations weren't closed yet.

Actions

- Thaísa will send the MPD presentation to the attendees of this meeting.
- Geovanny to send to Thaísa the available dates for the Riser Forum on the second week of December.
- Geovanny is to request the equipment list from the DC companies (with a deadline for replies) and book a meeting to discuss the results.
- Guilherme Vanni is to take the OIM topic about inspection and repair of equipment to further discussion in a meeting in Macaé. In addition, he will verify if API 16F covers something about it in the appendix.
- Guilherme Vanni is to check if API 16AR (that covers about well control) is already available on the website. However, it is unlikely to be as API 16AR is still on its second ballot until November 13th.
- Tony it to send the contact information from Komsberg and Franks International to Geovanny. So that, Geovanny can contact them to have more information about their possible presentation for the GM in November.



- Geovanny is to invite David Bird (expert in dynamic positioning) to Transocean and Seadrill's Forum about degraded status on November 13th from 9am to 12pm at Transocean and Seadrill's office.
- Tony is to start making the drilling presentation for Navy after the OTC. The presentation will be sent for the Tech/OPS committee for comments/suggestions.

Next Meeting

The next meeting for the Operational/Technical committee was agreed to be held on December 01st at 10:00am. The meeting will be at GE's office with video link to Seadrill's Rio office.