



Macaé, January 19th 2016

**MINUTES OF THE IADC-BRAZIL OPERATIONAL & TECHNICAL COMMITTEE MEETING
HELD ON JANUARY 19th, 2016 FROM 3:00 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 | - Marcelo Pombo - Seadrill |
| - Thaísa Aleixo – IADC-BRAZIL | - Leandro Lima – Pinheiro Lima E Sargioro |
| - John Guy – JSH Drilling Tools | - Leandro Diniz Brandão – OOG |

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:

- 2016 Goals.
- Align Committee's expectations
- Discuss Technical Presentations for the upcoming IADC-BRAZIL GM
- Establish responsibilities
- Discuss participation of DC and associated companies on the committee meetings
- Presentation to the navy
- Schedule the Committee's next meeting

The following items were agreed upon

- Jason and Bruno are to contact the DC companies and request their participation on the Tech/Ops committee, as the committee needs contribution from the DC members of IADC to achieve the goals for 2016. Only DC and associated members of IADC are allowed to attend this committee's meetings.
- Petrobras employees are still not receiving the IADC emails, as their firewall doesn't allow them to receive the emails sent from the IADC marketing system (Benchmark). As a solution, Jason will forward the IADC technical/operational emails to Petrobras from his OOG email address. The same will be discussed with Bruno Manfredini to forward the emails related to the executive subjects and Leandro Duarte to forward the emails of HSE matters.
- Leandro Lima suggested having an open forum prior to the meeting to make sure enough DC companies are confirmed to attend the meeting. It was suggested to have at least 7 DC confirmed to the meeting.
- With regards to the 2016 goals, the committee will focus on the following topics to start with:



- Critical equipment list.
- Share best practices amongst IADC DC members.
- How to reduce the costs? – Good practice/Maintenance.
- Jason is to find out about the critical equipment list that OOG and QGOG made together. João Cabral from Petrobras would like to have this list to discuss with ANP.
- Marcelo Pombo is to check with Pacific Drilling if they can share, with the IADC committee, their lessons learnt as they have been having great economic results lately. John is to send Fred's email contact to Jason so that Jason also can get in touch with Pacific Drilling.
- Jason is to contact Diamond Offshore as they are doing a best practices presentation in Houston this week. The idea is to see if they would like to present this for the IADC-BRAZIL general meeting.
- John is to contact the Navy's commander to check if they would like a spot for presenting at IADC's GM.
- Marcelo Pombo is to contact the team from Petrobras working on Libra's project to invite them to the IADC tech/ops committee meetings.
- Leandro Brandão is organizing a field trip for UFRJ to their rig at Porto do Açú. This visit might occur in February. John Guy is to come along to see how it works, and then John will be able to apply for other universities to visit the rig.

The following items were discussed yet they remain open

- In regards to the drilling presentation to be made for the Navy. It was suggested to use the Petrobras's basic drilling videos as reference. In addition, Carlos Alberto was willing to help with the presentation in 2015. However, it wasn't decided yet how to move forward. The committee will contact Carlos Alberto to discuss this.
- Marcelo, Marco Tulio and Marcio were working on high potential incidents and Marcelo Pombo suggested creating a guideline for high potential incidents. However, it would be better as a topic for discussion during the HSE committee meetings.
- The committee discussed the Petrobras Sondopolis project and the idea is to invite other DCs to be on the same page of how Sondopolis will work.
- It was suggested to invite FPSO's managers to be part of the committee. However, it would change the focuses of the tech/ops goals, as FPSOs are production vessels and not drilling rigs.

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.