

Macaé, July 18th 2017

MINUTES OF IADC-BRAZIL HSE COMMITTEE MEETING HELD ON JULY 18th 2017 FROM 3:00 p.m. TO 5:00 p.m. AT QGOG'S OFFICE IN MACAE

Present at this meeting were the following:

- Leandro Duarte – QGOG
- Jalile Bartole Pereira – IADC-Brazil
- Márcio Pastori – QGOG
- Marcus Bides – Falck Safety
- Rafael Xavier – Ocean Rig
- Alessandro Sias – Schahin
- Artur Barboza – Seadrill
- Guilherme Veiga – Ventura

The agenda for this meeting was to review the HSE committee goals to achieve results and meet the HSE purposes. The topics of discussion were as follows:

- Feedback about Audit
- H2S Work Group
- IAP
- NR 12

The following items were agreed upon

- Leandro commented on the audits that QGOG has undergone in the last months. The Ministry of Labor considers H2S to be an occupational exposure, therefore an emergency plan should be drawn up. Ministry of Labor interdicted some sectors by ergonomics, such as canisters and manual materials handling.
- According to Rafael, FIRJAN prepares PPRA reports for Ocean Rig, which already includes analysis of H2S, CO2 and CO.
- Leandro will be a focal point of a working group to create a guide for emergency and contingency with H2S and CO2 in the IADC format. It is necessary to confirm the members that can join this group. Artur reported that Felipe Lopes may not continue as a volunteer in the group. Marcus Bides volunteered to replace him. Leandro will share the H2S work standard of Petrobras.
- The committee decided to return with the IAP working group. The purpose of this group is to create a guide to define IAP. It is necessary to confirm the group members. Ocean Rig will try to designate someone to join the group. The group should provide a feedback at the next meeting.
- Rafael commented on the existence of a link on the ANP website to directly access the updated legislation - ANP Legislation - and will share with the committee.
- Diogo Ogata, from Ocean Rig, had suggested discussing NR 12. According to Rafael, this request is due to the difficulty in defining the list of minimum critical equipment. Rafael will share the critical equipment list from Etesco for discussion.



- According to Alessandro, Schahin understands that equipment that falls under NR 10 or NR 13 does not fit into NR 12. In other words, the specific standard overlaps with the generic one. He emphasized the importance of proving that the employee is trained to use the equipment.
- Leandro suggested that the list of Etesco be discussed at the next meeting. Leandro and Rômulo will present the methodology of the risk analysis used by QGOG in this case.

Actions

- Rafael will send Jalile the ANP Legislation link and the critical equipments list from Etesco and it will be sent to all later.
- Leandro will send the revised standard about H2S - N2351 (Revision C) to Jalile share with this committee.
- Reactivate IAP work group and start H2S group.
- Jalile will send previous work about IAP.

Next Meetings

The next meeting for the HSE committee was agreed to be held on September 12th at 2:00pm.