

International Association of Drilling Contractors



ART DCS Subcommittee Meeting

25 January 2018

9 – 11 am

IADC

10370 Richmond Ave, Suite 760
Houston, TX 77042

Minutes

Attendees:

Nathan Moralez, BP, Chair
Iqbal Ahemed, Saudi Aramco
Ernesto Espinoza, MH Wirth
Robin Macmillan, NOV, ART Chair
Trent Martin, Art Vice Chair, Transocean
Assaad Mohama, NOV
Victor Rasnow, Parker Hannifin (phone)
Mike Killalea, IADC

Minutes:

Chairman Nathan Moralez opened the meeting and welcomed the participants, who introduced themselves. Mike Killalea provided a brief facility update and briefing on IADC antitrust policy.

The first item was discussion of the IADC Daily Drilling Report update (“DDR Plus”). Mr Killalea reported that the Executive Committee has provided a budget for this project. Mr Moralez provided a overview of the project he envisioned, including updating the form, including new terminology, and creating a new electronic format.

He proposed organizing a task force for this purpose. DCS SC Co-chair Robert Van Kuillenberg, who had sent apologies for the meeting, had provided some examples of existing electronic daily drilling reports from elsewhere that the SC might wish to build upon.

Mr Martin noted that it is important that data being included on the form be precise, and Mr Moralez noted that it would be wise for sensors to feed into the DDR. The suggestion was to create a matrix of which sensors can be automated, and explore how to maintain sensor integrity – calibration requirements from OEMs, etc, with the objective of creating a holistic guide for rigs as a service to the drilling-contractor industry. One advantage would be an enhanced capability to move away from prescriptive maintenance to condition-based maintenance.

The group agreed that the effort would include no contractual implications.

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Sensors would be mapped to high-priority drilling states and to IADC codes on the DDR. New, more granular subcodes might be introduced, as well. For example, not only having a Code 6 to indicate tripping, but subcodes for tripping in, tripping out, etc.

Mr Macmillan noted that, in addition to sensors identifying drilling states, additional sensors would track the "state of the state", i.e., the precise operation. Downhole specialists should also be invited to discuss their sensors and calibrations.

To move forward, the group decided to establish a mission statement and three study groups. Committee members were named to these groups, and others will be added later:

- Stage Gate 1 (SG1): Content and Format, to cover:
 - Rig states needed to enhance existing IADC DDR
 - Digitization
 - Purpose
 - Messrs Mohama and Van Kuillenberg were assigned to this group.
- Stage Gate 2 (SG2): Rig Sensor Mapping to States
 - State automation identification
 - State performance
 - Messrs Moralez and Espinoza
- Stage Gate 3 (SG3): Rig Sensor Stewardship
 - Maintenance:
 - Condition-based/usage
 - Schedule
 - Specification: Sensor signal requirements, framework
 - Messrs Martin and Ahmed

The participants suggested individuals in their companies/networks they could approach to assist.

Mr Killalea was asked to secure a list of DCS participants from 2017. That list is available [here](#).

It was proposed to develop a presentation on the project for the 2018 ART Conference in Austin (11-12 September), as well as a formal paper for the 2019 SPE/IADC Drilling Conference, being held in The Hague that March. The deadline for abstracts for the ART Conference is 9 March, and that for the SPE/IADC event will be during June.

The next DCS SC meeting is scheduled for 0900 on Thursday, 22 March. However, given the scope of the work, it was suggested that intermediate meetings be convened, even if by phone.

There being no further business, Mr Moralez adjourned the meeting.