

# INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS



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**IADC ART Software Interface Subcommittee Meeting**  
**IADC Advanced Rig Technology Committee**  
**2 pm, Tuesday, 15 April, 2009**  
**IADC – Houston, TX**

## **ATTENDING:**

David Reid	National Oilwell Varco
David Cardellini	National Oilwell Varco
Andy Shelton	National Oilwell Varco
John Hoeflich	National Oilwell Varco
Don Shafer	Athens Group
Ken Gardner	Transocean
Allen Prescott	DNV
Zain Master	Caterpillar Inc
Mike Killalea	IADC

## **MINUTES:**

- 1) Zain Master opened the meeting, welcomed everybody to the group. Asked everybody present to introduce themselves, as a couple of new members were present.
- 2) Next meeting set for 19<sup>th</sup> of May 2009 at 8:30am and is being held together with the Controls Interface meeting as both the groups are being merged.
- 3) IADC Antitrust Policy & Guidelines were reviewed with members of the team.
- 4) Issues Discussed at meeting:

### **Rig Technology & Generation List**

- a. List is being compiled by John Hoeflich & David Cardellini for land and offshore.
- b. Zain Master to send list of protocols to John & David.
- c. List to be compiled and reviewed by team by next scheduled meeting.
- d. Most software interface issues present on rigs are due to integration of multiple systems that create a hybrid system.

### **Software Obsolescence**

- e. DC's would like latest critical software updates for equipment that are essential for safety on the Rig.

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- f. Products are tested for FMEA analysis, but never a system. Issues are usually seen when two systems are put together.
- g. Quick fixes are performed to software during commissioning that aren't recorded or communicated back to the vendor/dc/customer. These fixes deviate the software from the original code.
- h. Resolutions discussed:
  - i. Lump software upgrades with inventory management
  - ii. Communication of SW upgrade from product supplier with level of impact & criticality
  - iii. Systems to log and track upgrades performed or need to perform (Note: Apple's upgrade procedure next time).
  - iv. Recommend equipment manufacture to provide a FMEA analysis with the product. Would possibly provide operator with high confidence level on robustness & reliability of product purchased (Still does not resolve issue to have integrated system analyzed for FMEA).

## **Best Practices to enable easier integration of systems:**

- i. Major Interface issue on rig seen between Power Management Systems Interface and Drilling Systems (Draw works, Top drive, Dynamic positioning, Mud pumps, etc).
  - j. Deliverable for Committee is to recommend a list of "Best Practices" that are to be performed to smoothly interfaces those two systems together.
  - k. Need to facilitate a customer and power drive integrators meeting to get this list compiled.
  - l. Include this discussion topic in invitation letter previously worked on by Mike Killalea & Zain Master. (Included)
- 5) Rework invitation letter and have ready for committee review for next meeting.
  - 6) Co-ordinate next meeting invite with Sven Ove. Sven to try to hold meeting at Customer's site so as to facilitate conversation.
  - 7) No other significant issues were discussed.
  - 8) Meeting was adjourned.