

From: Florence, Ewen (DWH Proj)
Sent: Wednesday, February 09, 2011 9:33 PM
To: Farr, Dan (Houston)
Cc: McIntosh, Ryan (Houston); Myers, Steve (Houston); Tolleson, Chris (DWH Proj)
Subject: RE: Info for PC ASAP

Attachments: DWH SEM Battery change outs.docx; image001.gif

Dan,

It's within the attachment.

Regards,

Ewen Florence II

Transocean (DWH Proj)

Office 832 587 6474

Mobile 281 546 8307

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Attorney-Client Communication, Document(s) Prepared in Anticipation of Litigation

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From: Farr, Dan (Houston)
Sent: Wednesday, February 09, 2011 3:10 PM
To: Florence, Ewen (DWH Proj)
Cc: McIntosh, Ryan (Houston); Myers, Steve (Houston); Tolleson, Chris (DWH Proj)
Subject: RE: Info for PC ASAP

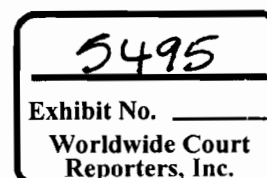
Need copy of the supporting evidence for Pod #1 and #2

Transocean systems date

Looking through RMS, Empac, GRS and other Transocean systems the dates appear to be:

- Pod #1 (blue SEM position on BOP) on 04 Nov 07, RMS Job 1550038097561, GRS DAR Subsea 04/11/10.
- Pod #2 (yellow SEM position on BOP) in September 2009, RMS 1550038097566

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TRN-INV-02853658

TDR087-015234

- Pod #3 (spare SEM) in First quarter 2010 (Was in spare POD on DWH Deck)

Dan

DAN FARR | Director

TRANSOCEAN | 4 GREENWAY PLAZA, HOUSTON, TX 77046 | OFFICE 713 232-7007 | MOBILE 281 844-3971 |
HYPERLINK "<mailto:dan.farr@deepwater.com>"dan.farr@deepwater.com

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ATTORNEY-CLIENT COMMUNICATION

DOCUMENT(S) PREPARED IN ANTICIPATION OF LITIGATION

From: Florence, Ewen (DWH Proj)
Sent: Wednesday, February 09, 2011 2:52 PM
To: Farr, Dan (Houston)
Cc: McIntosh, Ryan (Houston); Myers, Steve (Houston); Tolleson, Chris (DWH Proj)
Subject: RE: Info for PC ASAP

Dan,

See attached.

1/battery information if available, providing the documentation on the battery changes we have to the Chief Counsel's staff to avoid this appearing in the report.

Low battery charges. Here, the report states, "Available records suggest that Transocean did not adequately maintain and replace its BOP pod batteries. An April 2010 Transocean ModuSpec rig condition assessment stated that all three pods had new batteries installed. But internal Transocean records suggest that the crew had not replaced the batteries on one pod for 2 ½ years prior to the Macondo blowout and had not replaced the batteries in another pod for a year." [then adds that this appeared to have been a company pattern, citing Bly Report at page 167 to another rig's pods]. To the extent we can, I suggest providing the documentation on the battery changes we have to the Chief Counsel's staff to avoid this appearing in the report.

-The report also stated that a non-OEM part was used on solenoid 103 (I clarified this with the correct information).

Regards,

Ewen Florence II

Transocean (DWH Proj)

Office 832 587 6474

Mobile 281 546 8307

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From: McIntosh, Ryan (Houston)
Sent: Wednesday, February 09, 2011 2:02 PM
To: Florence, Ewen (DWH Proj)
Subject: RE: Info for PC ASAP

Ewen,

See attached information requested.

Thanks,

Ryan McIntosh,
Operations Engineer
DW Horizon Investigation Team
5 Greenway Plaza, Houston, TX 77046
Office: +1 832-587-6346
Cell: +1 713-492-7515

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Attorney-Client Communication, Document(s) Prepared in Anticipation of Litigation

From: Florence, Ewen (DWH Proj)
Sent: 09 February 2011 12:47
To: McIntosh, Ryan (Houston)
Subject: FW: Info for PC ASAP

Sorry was meant to forward this through.

Regards,

Ewen Florence II

Transocean (DWH Proj)

Office 832 587 6474

Mobile 281 546 8307

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attachments transmitted with it. Thank you

From: Farr, Dan (Houston)
Sent: Wednesday, February 09, 2011 9:51 AM
To: Florence, Ewen (DWH Proj)
Cc: Myers, Steve (Houston); Boughton, Geoff (Houston); Childs, Greg (DWH Proj); Tolleson, Chris (DWH Proj)
Subject: Info for PC ASAP

Ewen,

Would you put this information together for me today? Or sooner..... We need to pass this onto the President's commission ASAP

1/battery information if available, providing the documentation on the battery changes we have to the Chief Counsel's staff to avoid this appearing in the report.

Low battery charges. Here, the report states, "Available records suggest that Transocean did not adequately maintain and replace its BOP pod batteries. An April 2010 Transocean ModuSpec rig condition assessment stated that all three pods had new batteries installed. But internal Transocean records suggest that the crew had not replaced the batteries on one pod for 2 ½ years prior to the Macondo blowout and had not replaced the batteries in another pod for a year." [then adds that this appeared to have been a company pattern, citing Bly Report at page 167 to another rig's pods]. To the extent we can, I suggest providing the documentation on the battery changes we have to the Chief Counsel's staff to avoid this appearing in the report.

-The report also stated that a non-OEM part was used on solenoid 103 (I clarified this with the correct information).

2/that the 103 solenoid was not OEM but rather purchased from the component part manuf that supplies to the OEM, ie what the OEM uses. (Matt, were you able to make the correction?), and

3/possibly information re the slip joint/diverter ratings if that would be helpful.

Dan

Daniel L. Farr | Director – Special Projects
TRANSOCEAN | 4 GREENWAY PLAZA, HOUSTON, TX 77046 | 713 232-7007 office | 281 844-3971 mobile |
HYPERLINK "<mailto:dan.farr@deepwater.com>"dan.farr@deepwater.com

DWH SEM Battery change outs

Email and Workbook Dates

The Deepwater Horizon pod batteries were believed to be changed out the following dates as per an email from DWH Subsea DOC -11861:

- Pod #1(blue pod) on 25 April 2009
- Pod #2 (yellow pod) on 13 October 2009
- Pod #3 (spare pod) in 04 Nov 2007

Transocean systems date

Looking through RMS, Empac, GRS and other Transocean systems the dates appear to be:

- Pod #1(blue SEM position on BOP) on 04 Nov 07, RMS Job 1550038097561, GRS DAR Subsea 04/11/10.
- Pod #2 (yellow SEM position on BOP) in September 2009, RMS 1550038097566
- Pod #3 (spare SEM) in First quarter 2010 (Was in spare POD on DWH Deck)

Additionally, the Moduspec inspection performed on the DWH in April 2010 confirmed that all batteries in the SEM were new (DOC 000026).

Probable reason

EMPAC: 365 day PM described change out AMF battery up until approximately 2007. Between Mid 2007 and the introduction of RMS replacing the AMF batteries was not included in the Subsea 365 Work order plan description. In mid 2007 the 365 day PM was split into Subsea and electrical, see Doc 16035. The Horizon did not then schedule the 365 day electrical work corporate PM (Empac file 99005) to be done which included changing the batteries yearly, WKPROD-94.

**Supporting
docs**

Save
Cancel
Print Summary
Exit

[illegible]

DAR Consolidation Report - 16:47 - Windows Internet Explorer

DAR Consolidation Report

Printed : 09-Feb-2011
16:47 GMT
GRS-Online

Rig Name: Deepwater Horizon
Key Word:

Date From: 04-Nov-2007
Date To: 04-Nov-2007

Department: Sub Sea

| Date | Comments |
|-------------|---|
| 04-Nov-2007 | 1. Removed SEM from blue pod to change batteries. 2. Assisted Cameron Tech with SEM. 3. Going over checklist for riser run. |

Done

Trusted sites

100%

Job description: 365 Day-Mux Pod

Job type: PM

Action Code: Preventative

Accounting Classification: PA

Acct Code: E 0600 5121

Credit: Well Control

Include Corporate Credits: ☐

Save Cancel Print Summary Exit

| Tag Description | Now Tag: Description Number | Not started | Awaiting parts |
|-------------------------|-------------------------------|-------------|----------------|
| Part complete | Part complete | Complete | Complete |
| UP Blue MUX Control Pod | | | |

| Status | Work Log | Labor | Checks & Measurements | Parts | Service & Rentals | Consumables | Out of Service | Attach Document |
|--|------------------------------------|-------|-----------------------|-------|-------------------|-------------|----------------|-----------------|
| <p>EMPAC WORK ORDER NO : 8709-003541-0001 WORK IN PROGRESS] 07/02/2009 17:25:44 THIS POD IN IN THE PROCESS OF BEING OVERHAULED AT THIS TIME. WORK ORDER # 09-429 PROJECT # 10875 COMPLETION EXPECTED 09/09 O.M.C. 07/02/09</p> <p>SEM SENT TO CAMERON FOR BATTERY UPGRADE AND ALL CONNECTORS CHANGED</p> <p>ALL VALVES ON POD REBUILT</p> <p>ALL SOLENOIDS TO BE REBUILT WITH NEW E-CONNECTORS</p> <p>ALL INTERNAL O-RINGS CHANGED</p> <p>ALL PLUMBING CHECKED FOR TIGHTNESS</p> <p>ALL ACCUMULATORS REMOVED FOR BLASTING AND PAINTING. TESTING AND CHANGED BLADDERS AS NEEDED.</p> <p>ALL ANODES CHANGED</p> <p>ALL JUMPER HOSES BETWEEN THE MUX SECTION AND THE HYD. SECTION CHANGED</p> <p>ALL STINGER SEALS CHANGED</p> <p>FRAME SENT TO TOWN FOR BLASTING AND PAINTING WITH MARINE GRADE PAINT TO CAMERON SPECS</p> <p>FLOW METER SENT IN FOR INSPECTION. RETURNED GOOD</p> | <p>View Original Work Required</p> | | | | | | | |