

From: DWN, SubSeaSup (Deepwater Nautilus)
Sent: Saturday, December 18, 2010 9:59 PM
To: Florence, Ewen (DWH Proj)
Subject: RE: Raw value of AMF system on Nautilus
Ewen,

Thanks for your concern, we had new batteries on order for our deadman system well before Robert came to the Rig for the test, which we informed him of the age of the ones being tested, we still haven't changed them as we want to get all the life we can out of the new ones when we go back to work, thanks for the concern it's appreciated.

Thanks,
Mickey Sutton
Sr. Subsea Supervisor
Deepwater Nautilus
713-232-8451 or 8452
Email: subseasup.dwn@deepwater.com

From: Florence, Ewen (DWH Proj)
Sent: Wednesday, December 08, 2010 8:02 AM
To: DWN, SubSeaSup (Deepwater Nautilus)
Subject: FW: Raw value of AMF system on Nautilus

Greg, James,

I am sure you guys know already, and please accept my apologies if I cause any inconvenience. During our testing with the DWN spare SEM, we came across an abnormality concerning the raw values when the AMF deadman is armed and disarmed. The table below is a reference showing what the raw value is at what voltage the batteries are at. The correct values from Cameron and what we have confirmed.

Cameron.
Armed = 0 to 30
Disarmed = 900 + / - 60.

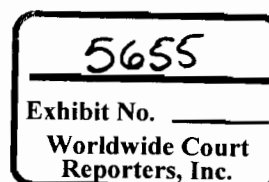
Our findings within Cameron specification.

Armed = 14
Disarmed = 911

When Robert Tiano was onboard running some tests there was a photo taken of the computer screen, within that screen it shows the Deadman Active 0.02 volt and a raw value of 197. This raw value of 197 is an indicator that the 9 volt in Blue SEM A has low battery power.

Volts	Arm	Raw	Disarm	Raw
5-9V	Yes	11,12,13		
4V	Yes	18-20		
3.5V	Yes	66-68		
3.4	Yes	86-90		
3.3	Yes	125-128		
3.2	Yes	190-195		
3.1	Yes	349-358		
3.0	Yes	522-526		
2.9	Yes	660-665		
2.8	Yes	762-765		

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2.7	Yes	827-830		
2.6	Yes	868-870		
2.5	Yes	892-845		
2.3	Yes			
2.2	Yes	913-916		

Regards,
Ewen Florence ●●
Transocean (DWH Proj)
Office 832 587 6474
Mobile 281 546 8307

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From: McIntosh, Ryan (Houston)
Sent: Monday, November 22, 2010 7:07 AM
To: Farr, Dan (Houston)
Cc: Florence, Ewen (DWH Proj); Tolleson, Chris (DWH Proj)
Subject: Raw value of AMF system on Nautilus

Dan,

When I was looking at photos taken back in August 2010 onboard the Nautilus I found that their Raw value for their AMF system was on the high side. From the testing we have done at West this higher raw value of 197 (attached photo) would indicate that the battery is low (3.2v). I'm not sure how and when this photo was taken and even if our testing is representative of the full system the Nautilus has onboard, but I just want to make sure that the Nautilus are not running the BOP with what could be a low battery.

I presume they have changed the batteries out with new but I just want to make sure all is good.

Volts	Arm	Raw	Disarm	Raw
5-9V	Yes	11,12,13		
4V	Yes	18-20		
3.5V	Yes	66-68		
3.4	Yes	86-90		
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3.1	Yes	349-358		
3.0	Yes	522-526		
2.9	Yes	660-665		
2.8	Yes	762-765		
2.7	Yes	827-830		
2.6	Yes	868-870		
2.5	Yes	892-845		
2.3	Yes			
2.2	Yes	913-916		

Thanks and regards,
Ryan McIntosh,



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