

From: Florence, Ewen (DWH Proj)
Sent: Wednesday, October 27, 2010 9:10 PM
To: 'Ally Murray'; Tolleson, Chris (DWH Proj)
Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)
Subject: RE: Cameron system

Attachments: image001.png

Hi Ally,

We never got back with you again concerning the testing we are in process of doing. We have continued to run tests of the AMF system on the Spare Deep water Nautilus SEM and it has revealed some very interesting stuff to us where if we did not have the SEM in and conducted these test onboard we may have missed the results.

We are still looking for help if and when would you be available to come over to help us run some of these test we are also looking for a header file sysdeefsw.h to help write onto the Eproms.

Regards,

Ewen Florence II

(DWH Proj)

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From: Florence, Ewen (DWH Proj)
Sent: Tuesday, October 05, 2010 3:17 PM
To: Ally Murray; Tolleson, Chris (DWH Proj)
Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)
Subject: RE: Cameron system

Thanks Ally,

Just to clarify the card is not installed into any SEM we are doing a standalone bench testing. This Card came from the CR luigs. Concerning the statement within under SEM reboot (Having satisfied these conditions, the SEM initiates its pre-programmed shutdown sequence). The AMF sequence is supposed to occur once and only once. How does the AMF sequence run once? Does it disarm? Is this done in the SEM software or the AMF Card? If it is in the SEM software, where in the SEM software? Can you name the subroutine section? If it is in the AMF card can you tell me where/how?

Regards,

Ewen Florence II



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From: Ally Murray [<mailto:allymurray@akss.com>]
Sent: Tuesday, October 05, 2010 2:15 PM
To: Florence, Ewen (DWH Proj); Tolleson, Chris (DWH Proj)
Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)
Subject: RE: Cameron system

Ewan,

The symptoms you are seeing with the card cycling has been seen by us in the past, this was being caused by different revisions of the AMF software being installed on AMF cards in the same SEM. When we installed the same AMF versions to each card the issue stopped. 

Cameron have different revs of the AMF software. One rev was done specifically for Transocean to accommodate the acoustic activation of the AMF on the Express Class rigs. We had this wrongly installed on another system after Cameron sent the cards programmed with the wrong file.

I'm sure you have loads of info on the design philosophy of the AMF but I've attached a document I did for the Energy recently just in case it gives you any additional info.

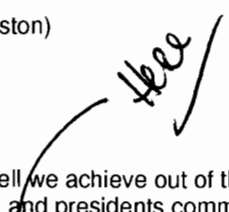
Regards Ally Murray

Control Systems Engineer

Mobile: +44 (0)7841 749979

From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]
Sent: 05 October 2010 20:00
To: Ally Murray; Tolleson, Chris (DWH Proj)
Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)
Subject: RE: Cameron system

Thanks Ally,


Your are correct in questioning what well we achieve out of this testing. At the moment we are being asked to put forward for the joint investigation commission and presidents commission hearing's an understanding of the functionality of the AMF system and there Battery life. Before we are confident to forward this details we need to understand how the system truly functions. ~~By~~ ~~Placing~~ the DWN pod we can run the AMF system firstly to see if it repeats and itself (does not de-activate) as we know by bench testing CRL rig AMF card only it does shut itself off after 3 minutes and 30 seconds and if the conditions are meet it will restart again repeating itself and will continue. Again by testing the AMF function on this Pod we will also be able to find out the actual current being drawing in a passive mod and active mod.

Regards,

Ewen Florence II

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From: Ally Murray [<mailto:allymurray@akss.com>]

Sent: Tuesday, October 05, 2010 12:27 PM

To: Florence, Ewen (DWH Proj); Tolleson, Chris (DWH Proj)

Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)

Subject: RE: Cameron system

Ewan,

Just to help you clarify just what you can achieve with a pod onshore, How do you intend to function the Pod? I would have thought the most accurate test would be using the isagraf application via control panels. If you are just functioning a pod onshore using the PETU, it's not going to tell you anything really. I may be wrong here if that's not what you plan.

Let me know how you plan to proceed and what you want to achieve we will endeavour to give you the best plan to get this done.

Regards Ally Murray

Control Systems Engineer

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From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]

Sent: 05 October 2010 18:16

To: Ally Murray; Tolleson, Chris (DWH Proj)

Cc: Walsh, Bob (Houston); McIntosh, Ryan (Houston)

Subject: RE: Cameron system

Ally,

Rest assured we do not want to cause any problems with your commitment to your well established client base. I cannot answer how long for the work to be carried out as this will depend on what's need to achieve and run the system. Which I am sure Chris can help with. We are arranging for a Pod to be transported into shore and should be with us within the next few days maximum by the end of the week

As you can appreciate this is a very delicate situation where we need to establish the answers to the system functionality under certain conditions, and we believe with your help and input to the questions raised can be achieved with certainty, we will work around your schedule to insure this does not disrupt your plans and commitment.

Chris,

Can you please forward through the isagraf files.

Regards,

Ewen Florence II

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From: Ally Murray [<mailto:allymurray@akss.com>]

Sent: Tuesday, October 05, 2010 11:56 AM

To: Florence, Ewen (DWH Proj)

Subject: RE: Cameron system

Chris,

Before we make any plans for Kim to go anywhere, you need to outline your schedule. I've contacted Kim and will be talking with her shortly. If as you said you need a week to get up and running with this then she won't be available. We are both committed from the 20th in Ghana. This is for a client who have been using us for the past 6 years and we won't be letting them down. If you can let me know your intentions then I'll get back to you after I've talked with her.

Regards Ally Murray

Control Systems Engineer

Mobile: +44 (0)7841 749979

From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]

Sent: 05 October 2010 17:48

To: Florence, Ewen (DWH Proj); Ally Murray

Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)

Subject: RE: Cameron system

Ally,

Can you please check if Kim is available within the next few days? If at all possible can you also forward through Kim's contacts.

Regards,

Ewen Florence II

(DWH Proj)

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From: Florence, Ewen (DWH Proj)

Sent: Tuesday, October 05, 2010 9:35 AM

To: Ally Murray

Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)

Subject: RE: Cameron system

Thanks Ally,

Will request Chris to handle the question and answers for the program and software issues lay out and such. But one thing you mentioned we would need the DWH AMF sequence which I am not sure if we will managed to get at this point in time.

I have contact Transocean Director of projects who is in control of the Sedco Express project to get all moving along, should be something back today on the way forward. In the mean time can you please put together a proposal to help with the set up of the DWH on the DWN equipment along with helping to run the simulations. Will forward through our thoughts, test procedures and what our goals are and what we are looking to achieve from these tests.

Thanks again for your time today, it's greatly appreciated.

Regards,

Ewen Florence II

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From: Ally Murray [<mailto:allymurray@akss.com>]
Sent: Tuesday, October 05, 2010 9:21 AM
To: Florence, Ewen (DWH Proj)
Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)
Subject: RE: Cameron system

Gent's

To answer some of your questions. To my knowledge the Nautilus and the Horizon had similar equipment setup.

With this in mind it should be easy enough to replicate the horizon system by just installing the Isagraf applications to the Panels and HPU.

As long as the two applications were cross referenced for the I/O assignments and temporary labels applied to any differences, then you should be able to function as the horizon. This is actually something we did some years ago with the Express and Energy during commissioning in Las Palmas to test software.

So what you are trying to achieve should be easier than you think as with the same pods you don't need to change the OS-9 as the setup is the same. The SEM is just dumb diagnostic points. If it's set up already which the Nautilus is, then you don't need to mess with the pod other than installing the Horizon AMF files. Again easy job. The rest is the same.

The PETU and event logger just need the Horizon ini file. No configuration changes required.

Other than that.

AMF functionality. Not sure what the sequence was but shouldn't be too hard to find, I'm sure some of your subsea people will have a copy of what sequence was installed.

Battery consumption allows for only 5 max solenoids energised at any one time.

On completion of AMF the system powers down again via the AMF card.

The AMF is armed via an internal diagnostic point that's tied to the AMF card.

All solenoids are monitored for miss-match

Cameron have an internal software department and as far as these systems are concerned I don't think there is any development going on.

So to summarise for you, I think that getting the Horizon software setup on the Nautilus should be a fairly quick and easy job.

We can assist with this if you want. Firstly you could send both rigs panel Isagraf files for cross reference and then confirm if you can get hold of the AMF and ini files. I think that's all you'll need.

A copy of the panel layouts would also be good.

Regards Ally Murray

Control Systems Engineer

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From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]
Sent: 05 October 2010 13:56
To: Ally Murray
Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)
Subject: RE: Cameron system

Ally,

This is some question we will be asking during the call.

Regards,

Ewen Florence II

(DWH Proj)

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From: Ally Murray [<mailto:allymurray@akss.com>]
Sent: Tuesday, October 05, 2010 6:49 AM
To: Florence, Ewen (DWH Proj)
Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)
Subject: RE: Cameron system

Ewan,

It won't be a problem, I'll be waiting for your call at 1500 my time.

Regards Ally Murray

Control Systems Engineer

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From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]
Sent: 05 October 2010 12:42
To: Ally Murray

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TRN-MDL-02805029

Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)
Subject: RE: Cameron system

Thanks Ally,

We can call you at 15:00 your time which is 08:00 our time in Houston. Just a matter of interest is there someone else that could also assist us if we do not managed to catch you on the phone?

Regards,

Ewen Florence II

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From: Ally Murray [<mailto:allymurray@akss.com>]
Sent: Tuesday, October 05, 2010 12:44 AM
To: Florence, Ewen (DWH Proj)
Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)
Subject: RE: Cameron system

Ewan,

Yes, Terry is correct, we have been dealing with the Cameron Mux Systems for almost 16 years now and have been involved in numerous installations, commissioning projects and currently still support these systems.

I'm currently on the Sedco Express, which is currently sitting off Malta preparing for a move to Israel.

If you call me on my cell number listed below you may well get me, but if you'd like to be more specific with the time you will call, I will make sure I'm outside on deck and within signal range.

Regards Ally Murray

Controls Engineering Consultant

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From: Florence, Ewen (DWH Proj) [<mailto:Ewen.Florence@deepwater.com>]
Sent: 04 October 2010 23:13
To: allymurray@akss.com
Cc: Tolleson, Chris (DWH Proj); Walsh, Bob (Houston)

Subject: RE: Cameron system

Ally,

I was given your business card from a work colleague Terry Loftis. He indicated your company has vast experience in Cameron control system and would maybe able to assist us.

At the moment we are looking for guidance on running a simulation of the DWH Cameron BOP Control system, where we would want to run this simulation on the DWN control system. If at all possible can we call you tomorrow to discuss further?

Regards,

Ewen Florence II

(DWH Proj)

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