

From: Watson, Neil (Brazil)
Sent: Saturday, May 29, 2010 1:53 AM
To: Florence, Ewen (DWH Proj)
Subject: RE: AMF Deadman
Ewen,

Did you read the email I attached earlier, see below regarding testing. I am looking to find a procedure and also to make sure I answer your questions 150 %

Thanks

Gary,

The answer to your question regarding the number of 60 sec actuations you can get out of the Lithium batteries is indeed 27 actuations. After that the batteries may begin to deteriorate. I said "may" because of the large safety factor used in the calculations. The batteries will most likely continue to operate for quite a while after that.

The answer to your other question regarding drain on the batteries when the DeadMan System is "armed" is this:
"Arming" the DeadMan System applies 9V battery power to the DeadMan Controller card and puts it in a mode of operation in which the conditions triggering an Emergency Shutdown are continuously monitored. This drains the 9V battery at a rate of 1.75 mA continuously! Although this is a very small current, over a period of one year (24 hours a day) this reduces the capacity of the 9 V battery by about 15 Ah which is more than half the total capacity of the battery. And by the way, the 27 actuations we discussed earlier were calculated after one year of operation in the Monitoring Mode (DeadMan armed).

Determining the condition of the 9V battery remotely is difficult. The MarkII SEMs have test points brought out to some of the spare connectors pins that allow monitoring of the 9V and 27V batteries. But without a load, just measuring the voltages will not tell you very much regarding the condition of the batteries.

Hoping this answers some of your questions, please let us know if we can be of further help.

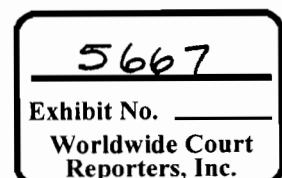
Sincerely,

Jean Bertholon

----- Original Message -----

From: "Cameron Express Account" <cameron@express.rig.sedco-forex.com>
To: "Jean Bertholon" <bertholonj@camerondiv.com>
Cc: "Werner Menz" <menzw@camerondiv.com>
Sent: Tuesday, December 05, 2000 9:34 AM
Subject: FW: AMF Batteries.

> Jean,
>
> Below this email can you answer the questions/queries on the AMF Batteries
> please.
>
> with thanks,
> Gary Birnie
> Field Service Engineer,



> Cameron Controls, ABERDEEN.

> Mobile +44 (0)410 576 577

>

> -----Original Message-----

> From: Cameron Express Account

> [mailto:cameron@express.rig.sedco-forex.com]

> Sent: Tuesday, December 05, 2000 7:55 AM

> To: Sabine Bartholomew

> Cc: Werner Menz

> Subject: RE: AMF Batteries.

>

>

> Sabine,

>

> Thank you for sending me document regarding the Deadman Batteries.

>

> Can you tell me:

>

> If my deadman sequence duration is 60 seconds and the total amount of

> executions is (55 see diagram 5) a safety factor = $55/2 = 27.5$.

> Does this mean I can function the Deadman sequence 27 times before the

> Batteries are presumed dead?

>

> When the Deadman system is ARMED on the Control Panels but not

> executed/operated are the batteries used while ARMED? Both SEM's monitor

> each others power supply does this consume battery power?

>

> What I was told was Cameron Controls recommended a maximum of 10 Deadman

> Executions before replacing the batteries, is this so?

>

> Thanks for you're assistance.

> regards,

> Gary Birnie

> Field Service Engineer,

> Cameron Controls, ABERDEEN.

> Mobile +44 (0)410 576 577

>

Neil Watson ♦ ♦ Bryan Keeton ♦ ♦

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From: Florence, Ewen (DWH Proj)

Sent: Friday, May 28, 2010 11:19 PM

To: Watson, Neil (Brazil)

Subject: AMF Deadman

Neil,

If at all possible can you red line the system, firstly where/what gives the signal to **starts** the sequence of the AMF/Dead Man. Also does these Solenoids on the D/M get monitor same as the normal **system** every 4 seconds is that right the rest of the system solenoids get monitored every 4 second?

Do you have the way to test the batteries while installed and does Cameron have a test procedure? Do you

remember how AMF is armed? Do you remember every function testing the D/M AMF on the Sedco Express?

Regards,

Sven Florence ●●

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