

Kennedy, Mac M

From: Kennedy, Mac M
Sent: Sunday, May 30, 2010 9:29 AM
To: Whitby, Mel; Coonrod, Don; McWhorter, David J.
Cc: Mangan, John; Corkhill, John; Berthaud, Pascal; Womble, Lee; Gaude, Edward C.; Cooper, Nathan; Coronado, Richard
Subject: RE: New Gov't regs....comment on Recommendation #6 - Privileged

David,

I have reviewed the new interim recommendations, and the most significant changes are:

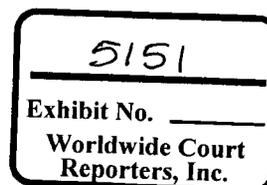
1. Requires redundant blind shear rams spaced at least four feet apart (to avoid tool joints....BTW what is the spacing of a standard double?)
2. Requires that the blind shear rams be verified by third party testing to be capable of shearing all pipe in use on the rig. (it does not specify whether this includes casing, but in places the report uses both the terms, "pipe" and "casing")
3. Requires the emergency back-up be "powered by a separate and independent accumulator bank with sufficient capacity to open and close one annular-type preventer and all ram-type preventers, including the blind shear ram" (this requirement also mentions lists autoshear, deadman, EDS, and/or acoustic....not sure what to make of the "and/or" part of that, are they requiring an acoustic system?)
4. Requires ROV intervention of all shear and pipe, close the choke and kill valves, and open the choke/kill valves on the lowest ram.
5. Requires that all ROV standardize on intervention ports to ensure compatibility with any available ROV.
6. Within 15 days of the date of this report, requires that all operators report to the Interior department the BOP and well control system configuration.
7. "The electronic log from the BOP control system must be transmitted online to a secure location onshore and made available for inspection by the Department."
8. Prior to deploying the BOP, operators must verify that any modifications or upgrades to the BOP are approved by the Interior Department and "that documentation showing that the BOP has been maintained and inspected according to the requirements....."

Based on all of this we need to plan on an onslaught of inquiries for:

1. Blind shear rams, and possibly tandem bonnets, I can even see inquiries for blind casing shear rams
2. Loaner models of various BOP's to be used in third party shear tests
3. ROV stabs (although which one I am not quite certain, it would seem they should specify which one BEFORE the GOM fleet adds a bunch of them, needs to be a dual port, I would prefer API 17H, which is what we used on all this build cycle)
4. Additional accumulators (or at least a new round of accumulator calculations, with a revised shallower water depth rating for what is already installed on the stack, seems a bit unfair to include opening volumes or annular volumes, due to the fact that these would not be used in EDS, autoshear, deadman, or acoustic function lists)
5. Updates to EDS and deadman sequences, and modification of autoshear circuits
6. Acoustic systems

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7. Additional shuttle valves, as well as conversion kits to pressure-biased shuttles
8. Position indicators of some kind on at least all ram BOP's and possibly on any ROV capable functions (some may even want both a visual indication and electronic, regardless, either should be ROV readable)
9. Upgrade of the event logger to transmit onshore (I believe that the event logger report would be much more valuable if the position indicators were electronic and captured it.)
10. Updates to documentation, reflecting all of the above changes as well as bringing the documents up to the state of the BOP and controls before the aforementioned mod's

Regards,
Mac K.

From: Whitby, Mel
Sent: Sat 5/29/2010 1:31 PM
To: Coonrod, Don; McWhorter, David J.
Cc: Mangan, John; Corkhill, John; Berthaud, Pascal; Womble, Lee; Gaude, Edward C.; Kennedy, Mac M
Subject: Re: New Gov't regs....comment on Recommendation #6 - Privileged

Guys.
Let's try not to complicate the simple solutions shall we. You don't need a sensor to tell you your chute didn't open.....the sudden stop is all the data you need.

Mel Whitby
Director of Engineering Technology.
Cameron Drilling Systems

From: Coonrod, Don
To: McWhorter, David J.
Cc: Mangan, John; Corkhill, John; Berthaud, Pascal; Whitby, Mel; Womble, Lee; Eastman, Brad; Gaude, Edward C.; Kennedy, Mac M
Sent: Sat May 29 14:15:43 2010
Subject: Re: New Gov't regs....comment on Recommendation #6 - Privileged

David,
Are the anticipated regulatory reqs applying only to Ram BOPs, or do you think they will cover Annulars, Gate Valves, or Diverters as well? Are you looking for solutions for these as well?
With regards to KISS mechanical indicators, do you foresee the need to incorporate sensors on these for realtime reporting?
Don

Sent from my iPad

On May 29, 2010, at 11:59 AM, "McWhorter, David J." <David.McWhorter@c-a-m.com> wrote:

John,

I want you and Corkhill to present your options to me and Mel next week. Tell us when.

David

From: Mangan, John
Sent: Saturday, May 29, 2010 11:23 AM
To: Corkhill, John; McWhorter, David J.
Cc: Berthaud, Pascal; Whitby, Mel; Womble, Lee; Eastman, Brad; Gaude, Edward C.; Coonrod, Don; Kennedy, Mac M
Subject: Re: New Gov'mt regs....comment on Recommendation #6 - Privileged

David,
I believe we can put indicators on all of the current designs with very little work. In the past we have used indicators on both the "st" and the ram lock bonnets but I have found a way to put one on the EVO to. It is quite simple and will take very little work. I spoke with John and Nic on Friday about it.
Let me know if you want to talk about it. I have plans to go to Berwick on Tuesday to complete the final testing on the motors that were repaired.
Regards
John

From: Corkhill, John
To: McWhorter, David J.
Cc: Berthaud, Pascal; Whitby, Mel; Womble, Lee; Eastman, Brad; Gaude, Edward C.; Coonrod, Don; Kennedy, Mac M; Mangan, John
Sent: Sat May 29 12:08:31 2010
Subject: RE: New Gov'mt regs....comment on Recommendation #6 - Privileged

David,

John and I had a meeting on Friday regarding this. We need a couple of days to sketch up the proposals and shall have them to you on Thursday.

John

From: McWhorter, David J.
Sent: Saturday, May 29, 2010 11:02 AM
To: Corkhill, John
Cc: Berthaud, Pascal; Whitby, Mel; Womble, Lee; Eastman, Brad; Gaude, Edward C.; Coonrod, Don; Kennedy, Mac M
Subject: New Gov'mt regs....comment on Recommendation #6 - Privileged

John,

The new government regs are going to require, it looks like, visible mechanical indicators or "redundant telemetry channels" for BOP rams. Don and Mac are working on a high tech solution, but I need your proposal for the KISS mechanical solution we discussed this next week. Are you ready?

David