

From: Hart, Derek (Aberdeen)
Sent: Tuesday, November 23, 2010 5:04 PM
To: Ritter, Bjoern (Houston)
Cc: Crain, Chad (Houston); Hart, Derek (Aberdeen)
Subject: Release Logic
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Bjoern,

As discussed following our meeting with Stress Engineering last Thursday my thinking is now that the Diverter was staring to fail (leak) before we had significant amounts of gas on the rig.

Going back over statements of those working with the Bucking machine and on deck my thoughts on sequence are as follows:-

1. Fluid flowing from Drill Floor (probably through the rotary)
2. Diverter is closed
3. Fluid flow reduces/stops on Drill Floor, then after approx 30 seconds (this is roughly how long Stress thinks it would take to fill the MGS + pipework up)
4. Fluid Flow starts from MGS orifices, then also after a short time
5. Fluid flow resumes from Drill Floor; gradually increasing (by this time it would be a fluid/gas mix)
6. Gas is released as agreed for scenario 1 for the P.C, with the addition of through the diverter seals onto the Frill Floor
7. 1st explosion (initiated possibly in area of MGS/Motor House roof and flame travels into under deck spaces through ventilation ducting e.g. into #3 engine room causing an explosion in that space with subsequent impact on the ECR + the injured person @ the Bucking Machine hit by the door blowing open
8. Fire on top of motor house roof & area of MGS, Stbd Crane and Stbd aft deck
9. 2nd explosion (partly blows out fire on motor house and other areas mentioned in 8 above; this allows the mud logger to escape; starts fire in centre of Drill Floor which spreads onto the Stbd main deck (people could not get back to the C Op on the main Deck)

Two things I've yet to get a "feeling" for is when did the fire in the Moonpool start, but I don't think that matters/impacts things significantly and where/what was the initiator for the 2nd explosion?

Any thoughts/inputs welcome.

Regards
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