

12 February 2009

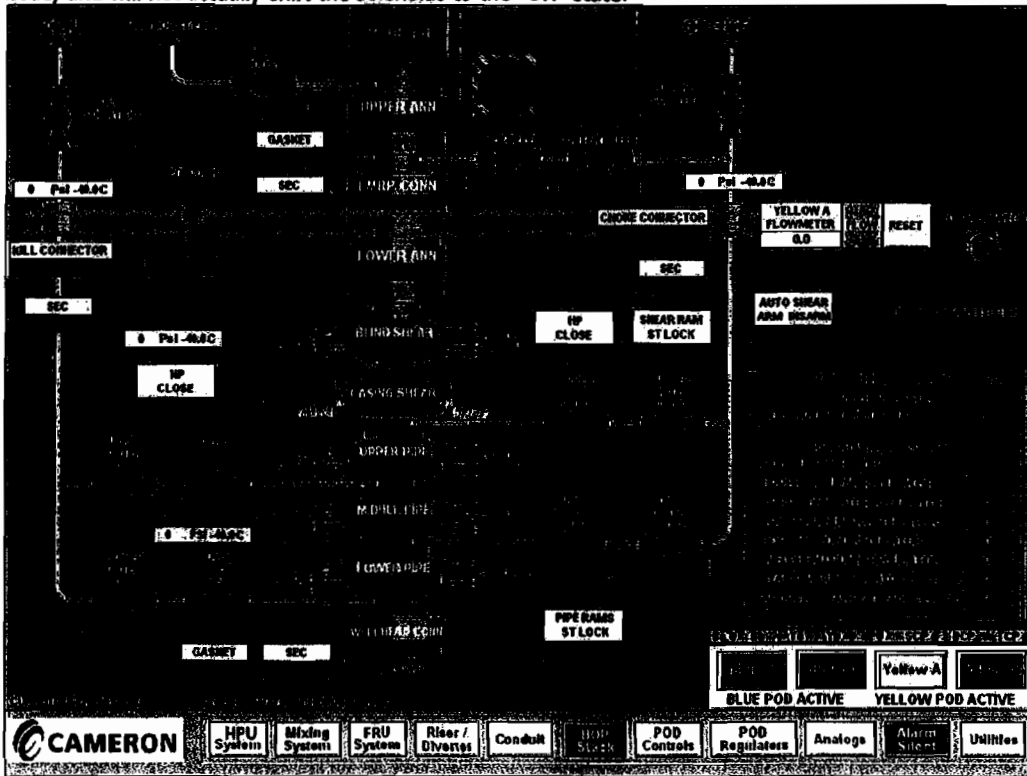
Safety Alert # 4058

Mark III Modular Drilling Control Pod SEM (Subsea Electronics Module) Indication Faults

We have recently been advised from the field of several instances where two types of "Indication faults" associated with the Mark III SEM (Subsea electronics module) have been experienced. The two indication faults are as described below:

Indication Fault #1

The active SEM indicates going to a "both Diagnostic points on" condition. The HMI BOP screen will show the valve position tag on the screen turning "black" which indicates that the active SEM is reporting back that all solenoids are in the "ON" state (see below screen capture). We have not experienced more than one SEM (Blue A, Blue B, Yellow A, Yellow B) going to this state. This solenoid "ON" position state is an indication issue, and will not actually shift the solenoids to the "ON" state.



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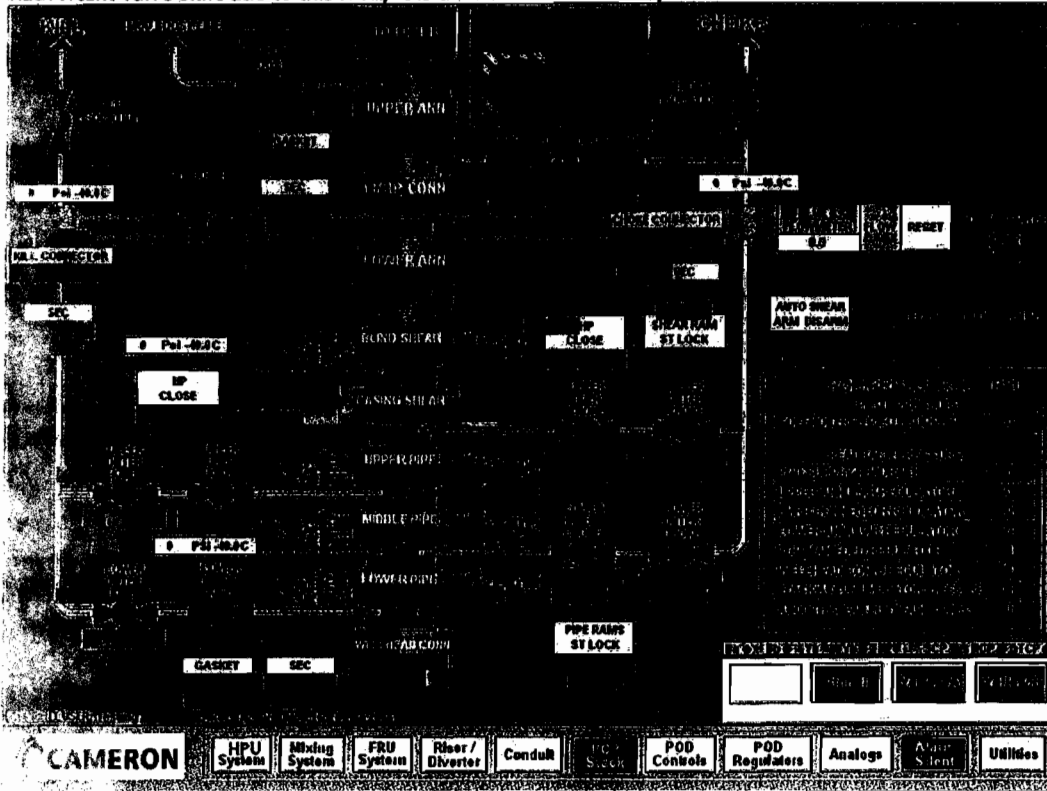
LeNormand
Exhibit No. 3626
Worldwide Court
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 10900 Corporate Centre Drive, Suite 100
 Houston, Texas 77041

Indication Fault #2

Additionally, we have experienced a single SEM going to a "NO" DSDM (Drilling Solenoid Driver Module) state, which is indicated with the HMI valve position Tag names going to a "Black state" with the word "LOCKED" in the place of the valve position (see below screen capture). This is indicating that the "active" SEM is not recognizing the DSDM (Drilling Solenoid Driver Modules). At no time have we experienced an inadvertent valve shift due to this fault, it is an indication issue only.



Corrective Action

The above "Indication Faults" have been traced to the Application Software that is installed on the I/O board within each SEM (there are 2 sets of electronics within each SEM Housing, A and B per Pod). A revised version of the I/O Board Application Software will be required to be downloaded onto each I/O Board and compiled for proper operation. The corrective action can only be accomplished by removing the SEM Cover and gaining access to the individual I/O boards while the system is on the surface. These activities can only be undertaken by authorized Cameron Service Personnel.

Each Cameron customer requiring implementation of the above corrective action will be contacted by our Service Department to arrange a suitable time and location to accomplish these tasks.

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In the event that you experience the above described "Indication Faults" prior to implementation of the corrective action please follow the procedure outlined below:

Procedure to Address "Indication Faults"

1. Select the opposite SEM on the same POD.
2. Reboot the power to the locked SEM at the Communication Cabinet only.

Note: Reboot the locked SEM "ONLY".

3. Verify system is operating in a normal condition and that all SEM's are available.

Discussion

Our testing indicates that, rebooting the locked SEM "ONLY" will reset that SEM. At no time should the operator switch to the opposite POD when they are experiencing either one of these fault conditions.

WARNING: If the opposite POD is selected when the SEM is in a "LOCKED state" there is a possibility that this action could result in an inadvertent shifting of the valves to the "ON" state due to the remaining 3 SEM's attempting to re-align to the LOCKED SEM that is showing all Solenoids in the "ON" position. This could result in the BOP Stack functions moving to an undesirable condition (ie: Accumulator Dump etc.) other than the mode that was set prior to the active SEM "Indication Faults" described above. This could result in failure of the BOP to perform its intended function.

Cameron requests that you immediately contact Cameron Technical Support if these fault conditions are observed for assistance and guidance with resetting the SEM.

Contacts for Technical support:

William LeNormand: 713-204-6249.
William Duncan: 832-319-9487.

Contact for Field Service Supervisor:

James Williamson: 936-346-2108

Contact for Manager, Field Service:

Jason Van Lue: 281-382-1548

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