

Step Change Safety Alert Template



Alert Title

Gas leak from the main sealine isolation valve ESD XZV-47719.

What leaked and where from? E.g.: "Lube oil leak from compressor system open vent"

Incident Date

28th November 2013

The date on which the incident occurred, not when this form was completed

Location Type

Fixed Platform

E.g. Floating/Fixed Production, Drill Rig, Vessel, etc.

Specific Equipment Involved

Sealine isolation valve

Give as much detail as possible about the equipment involved

Description of What Happened

The platform was completing re-commissioning activities, and conducting ESD validation testing. During the testing the close limit switch associated with sealine ESD XZV-47719 failed to meet its limit. The platform instrument technician then investigated. When removing the cover off the PFP (Passive Fire Protection) enclosure his personal gas detector went into alarm >20% LEL (Lower Explosive Limit).

This was immediately reported to the control room and investigated. Further gas testing indicated that the source of leakage was around the stem seal area where a 100% LEL was recorded. Access was however restricted due to the PFP enclosure, however a hissing sound could be heard. Under instruction by the OIM the platform topsides were blown down by the control room operator and the duty manager informed of events. Further gas monitoring following de-pressurisation of topsides indicated a 0% LEL within the PFP enclosure. As a further pre-caution the area was barrier off and a double block and bleed was applied inboard of the sealine valve.

Be as detailed as possible. Give equipment history and approximate time(s) of actions/occurrences related to the incident

Cause of Incident

Failed elastomer on the primary valve stem seal

Build from OIR/12 checklist

Incident Consequences

Plant shutdown and isolation until an appropriate repair could be affected

Include the release itself and any subsequent emergency actions/dangerous occurrences

Lessons Learned

- The venting arrangements are to be reviewed

Include a few bullet points clarifying what was learned from the incident

Recommendations/Actions

- Failure model analysis to be completed on the valve seals

Include a few bullet points stating any recommendations/actions that will be made/taken as a result of the lessons learned

Contact Details (Optional)

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If you would like your submission to be anonymous, leave this section blank