

Step Change Safety Alert Template



Alert Title

Minor emission detected on Shutdown valve.

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

Incident Date

07/08/2013

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

Location Type

Fixed Production

Eg.. Floating / Fixed Production, Drill Rig, Vessel, etc.

Specific Equipment Involved

Gas Compression (GC); Gas Lift Compression (GL) shutdown valve

Give as much detail as possible about the equipment involved

Description of What Happened

The platform had been shutdown since 31/07/13 for annual shutdown. At the time of the discovery the platform was still shut down and no process was running, but was being prepared for start up. An operator detected minor emission from the valve in the gas export to gas lift manifold. The valve was on the CLOSED position and gas was detected using personnel meter. Minor emission was from the directional plate on the valve. Gas measured as 40-60% LEL at 10cm. Pressure in line was 13 bar. Line/operating pressure is 145 Bar.

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

Cause of Incident

Equipment - Other – Degradation of o-rings on stem seal, potentially due to age

Build from OIR/12 checklist

Incident Consequences

Minor emission (<0.5kg)

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

Lessons Learned

Wear & tear of the o-rings is the direct cause of this failure. There was a similar failure of these o-rings 2 years previously. The manufacturer of this valve doesn't exist anymore and the current spares are supplied by a different company

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

Recommendations/Actions

- 1 Determine if the stem seals specified for this valve are suitable for its current service.
- 2 Determine if the stem seals for this valve require a preventative maintenance task such as greasing to extend the life of the o-rings and maintain an effective HC containment.

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

Contact Details (Optional)

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