

Step Change Safety Alert Template



Alert Title

Hydrocarbon Releases Found From well Slot Flow Transmitter Pipework

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

Incident Date

23/07/2013

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

Location Type

Fixed Production

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

Specific Equipment Involved

Pipework & Fittings, Valve, Wellhead

Give as much detail as possible about the equipment involved

Description of What Happened

During maintenance on wellhead, the SSSV hydraulic master and wing valves were opened. The choke was opened to 25% (the 6" production block valve downstream of the venturi was closed), pressurising the system to a CITHP of 233bar.

During a local inspection of the plant, a gas leak was noticed coming out of 1 leg of the 3/8" 'T' piece fitting to the DP cell and pressure gauge. There was also a separate gas leak at the seal point of the isolation valve integral to the manifold block. The local gas detection did not activate.



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

Cause of Incident

Defective equipment – fractured T piece fitting, perpendicular crack identified– potential stress corrosion cracking

Build from OIR/12 checklist

Incident Consequences

Gas release Contained Onboard or Negligible

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

Lessons Learned

Metallurgical analysis discussion stated that austenitic stainless steels are particularly susceptible to stress corrosion cracking in the presence of aqueous chlorides at elevated temperatures.

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

Recommendations/Actions

- Confirm all other fittings in the same service are gas tight and show no signs of deterioration

- Take further samples of the population of fittings to gauge whether a system issue – completed and found to be isolated case

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