# Step Change Safety Alert Template



#### **Alert Title**

## Loss of Production - Hydrocarbon Release

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

#### **Incident Date**

19/03/2013

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**

Threaded connection on reciprocating gas export compressor

Give as much detail as possible about the equipment involved

## **Description of What Happened**

During routine operations a member of the Ops Team smelled hydrocarbons in the vicinity of the Reciprocating Gas Export Compressor K2060. On investigation with other members of the Operations Team it was discovered that a 1" threaded pipe had parted on the compressor inner packing vent line.

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

#### **Cause of Incident**

Integrity of Tools, Plant/Equipment, Materials, Products

- Inadequate design/specification/management of change

Build from OIR/12 checklist

## **Incident Consequences**

The compressor was shut down and depressurised and due to the line venting into the common LP Vent Header a decision was taken to activate a full production shutdown and blow down. Although fully operational no fixed gas detection systems activated during the incident and gas could not be picked up by personal gas detectors at a distance of 1m away from the failed pipe. The failure of the vent connection to the compressor caused a hydrocarbon gas release at 0.005 Bar(g) pressure.

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

#### **Lessons Learned**

• Ensure that piping and connection fatigue is appropriately managed across all Operating assets.

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

#### Recommendations/Actions

- Ensure that a robust strategy for managing vibration anomalies is in place
- Ensure vibration / fatique is considered in any Risk Based Inspection scheme
- Review inspection procedures in place and ensure they include condition assessment of pipe supports, particularly those associated with reciprocating machinery
- Ensure that pipework and equipment contained within vendor packages are included in the RBI database and are risk assessed accordingly
- Ensure close out of anomalies in a timely manner
- Ensure regular vibration surveys are undertaken in identified areas of high vibration and that the results
  of these surveys are fed back into the RBI model

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