Step Change Safety Alert Template

Alert Title

Gas Detection in Combustion Air Intake

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

Incident Date

06/03/2012

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

Fuel gas air intake system

Give as much detail as possible about the equipment involved

Description of What Happened

During static commissioning of the fuel gas system, the combustion air intake gas detectors indicated a high level of gas. This caused an automatic general platform alarm and a shutdown of the process. The commissioning process requires the engine fuel gas supply to be on so that the sensitive pressure regulators that meter fuel to the carburettors can be set up correctly. During this activity it appears that gas migrated from the carburettors through the engine inlet manifolds and out into the air intake ducting. The weather at the time was exceptionally calm with little or no turbulence at the air intake to dilute any gas migrating along the intake ducting.

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

Cause of Incident

OPERATION/OTHER (Specify): Recommissioning generator engine fuel gas system.

Build from OIR/12 checklist

Incident Consequences

0.08 KG gas released

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

Lessons Learned

One of the low pressure regulators was found to have been assembled incorrectly.
Gas had leaked back into the air intake ducting from the engine carburettors. (normal occurrence during commissioning – minimal wind speeds present).

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

Recommendations/Actions

Rectify regulator
Inhibit gas detectors during commissioning operations;
Alert workforce to the potential of gas accumulating in the air intake ducting during commissioning;
Prevent hot work around inlet to combustion air intake

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