

# Step Change Safety Alert Template



## Alert Title

Gas migration from compressor wash line to water tank

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

## Incident Date

13/10/2012

*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

Non Return Valve/Water wash tank

*Give as much detail as possible about the equipment involved*

## Description of What Happened

After completing a water wash of a compressor, 1.5 hours later a technician reported a smell of gas in the adjacent area. The smell was investigated and traced to the wash storage tank. The line that feeds to the compressor was traced and one of the valves was slightly off the closed seat. The valve was then closed by hand to the fully closed position - approximately 1/3rd turn. The tank was then filled with water to displace the gas.

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

## Cause of Incident

Valve left slightly open.

*Build from OIR/12 checklist*

## Incident Consequences

1.72 KG Natural Gas released

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

## Lessons Learned

Gas had migrated back from the compressor casing into the water wash tank via two block valves, two non return valves and pump. One valve was partially open (a 1/3 of a turn off its seat) the other may have been "passing". The 2 non return valves cannot be guaranteed to be tight shut off and may "pass".

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

## Recommendations/Actions

Replace all NRV's and associated block valves in the compressor wash systems

Conduct a risk assessment to ensure the safe operation / running of both the compressor and compressor wash skid until the NRV's and block valves are replaced.

*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*