



Learning Event



OPERATING PROCESS EQUIPMENT

HAZARD
Chemical
(Flammable)

**Loss of
Containment**

CONSEQUENCES

Actual: No harm to persons
Potential: This could have caused multiple fatalities

WHAT ARE YOU DOING TO PREVENT LEAKS FROM ANTI SURGE VALVES (ASVS)?

What Happened?

During operator rounds a gas leak was identified from the gland packing of an Anti Surge Valve (ASV). The leak was audible and heard by the operator. A reading of 53% at 150mm was reported on the operator's personal gas detector.

Why did it Happen?

- The stuffing box was corroded to the bonnet. This stopped the packing receiving any tension and created the leak path.
- To stop the corrosion from occurring the stuffing box should be greased externally when installed. Additional silicon grease should be used to fill any gap at periodic stages to prevent water from entering it.
- The valve is situated on the top platform at a facility that is usually unmanned. It is unlikely that an operator will go up on the platform, minimising the detection of any ASV leak.
- A periodic maintenance program was not in place for ASVs to prevent ingress of water into the valve body.

What did they Learn?

Carry out periodic maintenance of ASVs to check for water ingress into the valve body.

IOGP Process Safety Fundamentals

- ✓ We improve our understanding of process safety hazards at our location and our roles in controlling them.
- ✓ We are vigilant about the potential impacts of uncontrolled process safety hazards.
- ✓ We use operating and maintenance procedures, even if we are familiar with the task.



Ask yourself or your Crew:

Does your site have ASVs? Do you check them to see if they are leaking? Do you know what to do if you detect a leak? Are they subject to periodic maintenance to check for water ingress in the valve body?

Further Information:



SCAN ME

Safer Together - Maintain It video (Process Safety Awareness)



SCAN ME

Safer Together - We all have a part to play (Process Safety Awareness)



SCAN ME

Safer Together - Contain It (Major Accident Event Awareness Training)

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