

Scenario example

Scenario Description

During a start-up after revision, a gas leak is detected by a line detector (25% LEL) in area 1A. The area responsible reports back to CCR that she or he can hear and see the gas, but due to noise and gas the area responsible is not able to detect the leak source. Since the leakage is located in the outer part of the platform, no more detectors are activated. However, CCR decides to activate the ESD 2 manually. After a while area responsible detects the leak source, and a blowdown of the system is manually activated from CCR. During the day the source of the leakage is repaired, tested and found to be in order. Early evening the same day, the platform is ready for a second attempt of the revision start-up. During this second start-up, a condensation leakage in a flange is detected by a field operator. She or he reports back to CCR about a big leak in area 1B. No gas detectors have been activated and CRO believes the leakage to be located in the same area as the first gas leak detected earlier that morning. Due to this, CRO performs no actions but sends area responsible to area 1B to get a confirmation of the condensate leak. Area responsible confirms the leakage and CCR closes the emergency shutdown valve upstream the leakage and overrides the gas detectors in the area to avoid an emergency shutdown. While the area responsible is isolating the leakage, there is a discussion if the ignition sources should be disconnected, however CCR chooses not to do this since the leakage is under control and decreasing.

Main Steps of the Scenario

1. CRO is busy with a start-up of the plant
2. Gas detector alarms CRO (25% LEL)
3. Area responsible reports back to CCR
4. CRO activates ESD 2 manually
5. Area responsible detects the leak source
6. CRO manually activates a blowdown of the system
7. Shift hand over meeting in the CCR
8. CRO is handling a second start-up of the plant
9. Field operator observes a big leak and reports to CCR
10. CRO believes there must be a misunderstanding and sends area responsible to get a confirmation
11. Area responsible confirms the leak
12. CRO closes the emergency valve upstream of the leak
13. Area responsible isolates the leak
14. CRO chooses not to disconnect ignition sources

1.1.1.1STEP

