

Incident Learning: LOPC @ K4701 FRESH H2 RELEASE

An LOPC Incident took place on 17 October 2020 at about 17H20 at U4700 plot on the K4701 fresh recycle hydrogen gas

- An operator was in the area, doing last round checks on K4701, when the incident occurred.
- Alarm was raised, and containment was started by commissioning the fire hydrant on the west side of the unit.
- The compressor was stopped, and the unit emergency shutdown procedure was followed, depressurizing the unit.
- Compressor suction and discharge valve were manually isolated, by Fire crew members Using bunker gear and SCBA (Self Containing Breathing Apparatus).

Incident Learning: Fire and smouldering on U7700 HVU



What are the learnings for implementation?

1. Findings and Learning's:

Positive:

- The incident was handled well with no injuries & no escalation.
- Prompt response by emergency responders.
 - Staging of FCP upwind in a safe area done.
 - Initial containment and vapor dispersing done well.
- Good initial discussion of action plan at FCP (SM, Zone TL, Fire officer, Fire crew TL) resulted in good execution.
- Water management was good and no sewers lifted.

Concerns:

- Are we doing Vibration monitoring on all critical small bore piping including instrument tubing?
- Emergency responders to always be cognizant of Covid-19 protocols when attending to emergencies.
- Need more high volume hydrant connections at North zone. We had to use pig tails to ensure enough water for dispersing the flammable cloud.
- SCBA trailer needs to be accessible at any time. Took long to get to the scene since it had to be picked up from the pollution shed behind stuff.