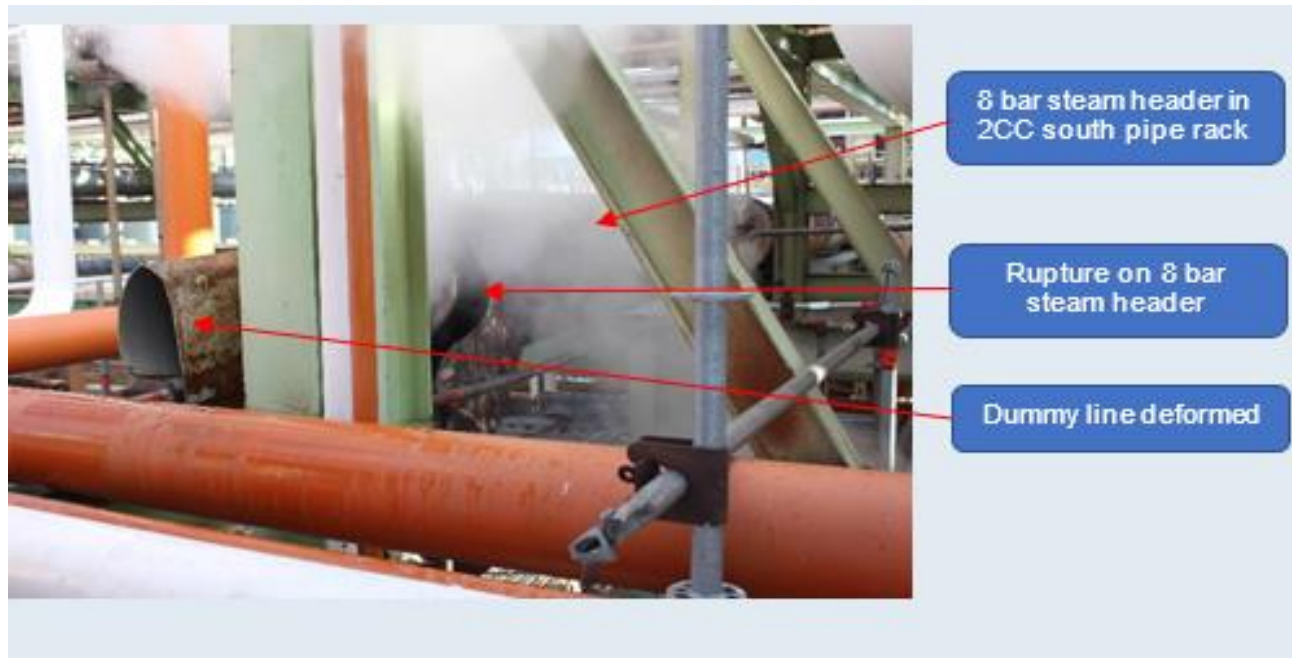


What happened?

Event:

8 bar steam line ruptured due to water hammer due to malfunctioning of the steam trap. Injuries were sustained during evacuation while running away from the incident area.



Learnings

Key findings:

- Steam trap on the decommissioned phase was not functioning. This created a dead leg.
- The current philosophy on steam traps regarding reporting of defects, maintenance strategy and operating philosophies is inadequate
- There is no management system or philosophy in place to collate information on steam traps from different sources (e.g. trends bad actors, heat maps etc.)

Learnings:

- Ensure that the impact of “dead legs” is well understood and the impact this can have in steam systems during decommissioning is well mitigated
- Understand the importance of steam traps and the subsequent maintenance and inspection regime adopted
- Collation of information from different sources and analysis of this information for trends bad actors, heat maps etc. is critical to ensure that the correct decisions are taken