



LTI - HiPo - Burns on the face and hands due to spillage of hot hazardous substance

Number	2023-15	Date	24/07/2023
---------------	---------	-------------	------------

Summary:

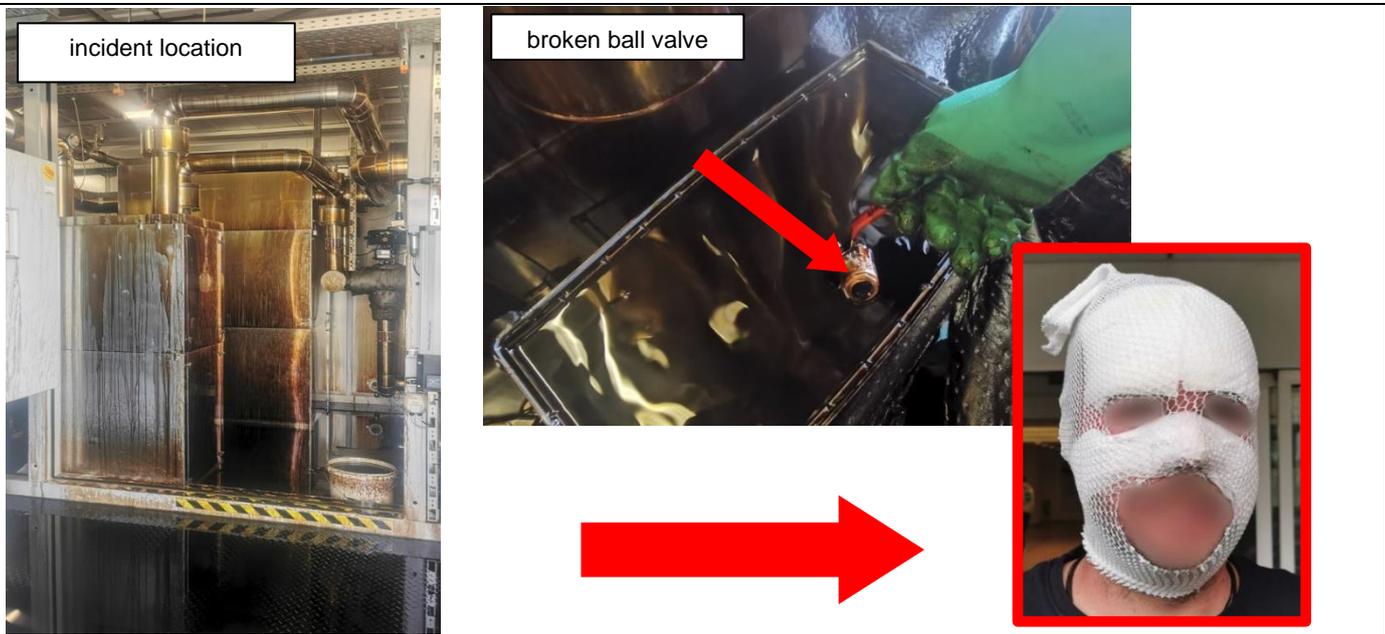
The injured person (IP) wanted to check a ball valve that appeared to be leaking inside a container with a Biogas upgrading plant.

The system where the valve was mounted contained an amine solution at about 4 bars and at a temperature of about 100 Celsius degrees.

As soon as the IP touched the valve, it broke and the amine solution spayed out and came into contact with the worker. A second service technician immediately shut down the plant via the emergency stop and provided first aid to the IP, then an ambulance arrived at Site and gave additional medical assistance. The injured person was taken to the hospital for further medical care.

Outcome: The IP suffered second-degree burns on his face, forearms and right hand

Incident Classification: LTI – Level 2 – HiPo



Root Causes and Contributory Factors

- Lack of quality control on the installed valve
- Missing RAMS and Pre-job tool box talk (Take 5). No clear instruction on what kind of tasks could have been conducted with a system in operation or when a shutdown was necessary
- Insufficient training
- The IP started working without informing his leader
- Carrying out work during the operation of the plant.
- Missing eye protection.

Lesson Learned

- Initially, only carry out a visual inspection of running systems if safe to do so and approved by your manager.
- Before conducting any task, ensure there is an approved RAMS and a pre-job toolbox talk is conducted by the leader at the working place.
- Always keep in mind that a running system can be a source of danger. Before conducting an activity or an inspection in or nearby a system in operation, ensure you are wearing the right PPE and it is safe to conduct the task.
- **Always check whether the system needs to be switched off. If so, carry out the activity when the system is switched off and LOTO is applied by your team leader.**
- Ensure you get all the required HZI training before starting.
- Verify if a suitable QA/QC control was conducted for the involved system.
- Ensure your leader is informed before starting any task

Every Lesson Learned is an opportunity to avoid recurrences.
What have you done to avoid a similar incident on your project?