

HiPo LTI – HP water jetting incident 17 November 2018

Brief description of Event:

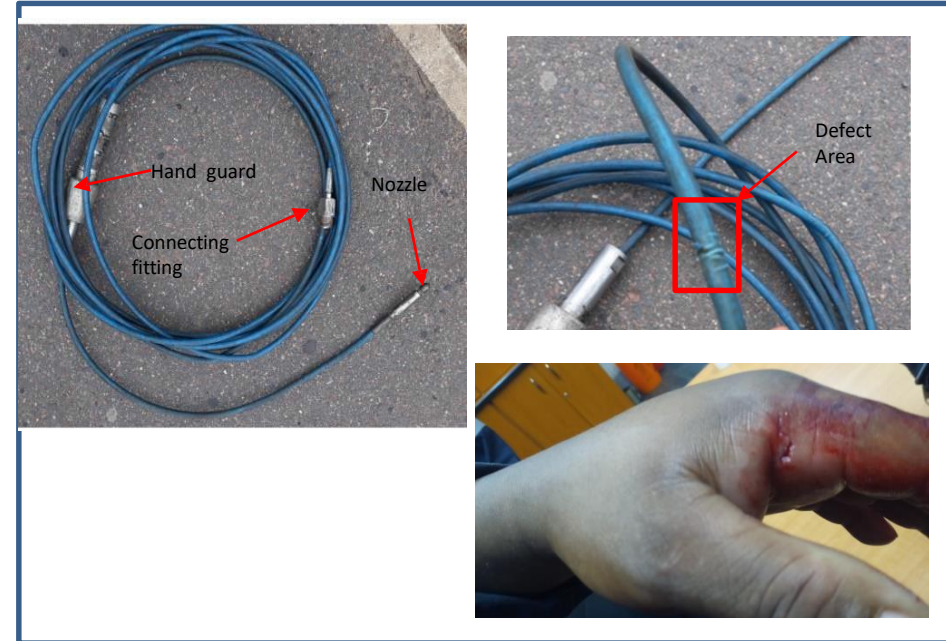
On 17/11/2018 at about 05h00, a service provider employee sustained an injury to his hand during hand lancing of a blocked n-butane sample point line in the HFA unit. The lance had developed a hole and the high pressure water at about 1000 bar hit the left hand pointing finger of the operator resulting in tissue damage. The injured person received first aid treatment at the SAPREF clinic and was then sent to a local hospital for further treatment. He required minor surgery to clean the wound and drain out the water. He was hospitalized for a few days to ensure that the wound is not infected. The injury was classified as a High Potential Lost Time Injury. The injured person is expected to make a full recovery.

Summary of main findings:

1. A flexible lance was used for the HP jetting task, and is susceptible to friction damage in this application.
2. The work requester did not fully understand the way the work was being conducted or the risks involved, and hence did not intervene
3. SAPREF Front Line Supervision was limited, as this is a specialized Service Provider task
4. HP Hydro-jetting is classified as a high risk activity, however the field assurance was inadequate
5. The HFA maintenance activity was not managed with an HSSE plan, although the duration increased from 5 days (limit for activities requiring a plan) to a month.
6. The injured person was in "C-class" suit. It is not possible to wear normal HP water jetting PPE (Turtle suit and HP jetting gloves) when in "C-class" suit.

Actions taken following the incident:

1. No hand flexi lancing is allowed when in "C-class" suit
2. A special meeting was held with all service providers site managers to discuss the incident and learnings
3. A subsequent special meeting was held with service providers site managers and the CEOs to get feedback on corrective and preventative actions



Picture

Corrective & Preventative actions taken:

1. Review and update the procedure for conducting HP Jetting safely.
Alan Chetty 30.4.2019
2. Make Work method statements review mandatory for the work requester to engage the person conducting work, to understand how work is being done. Embed the practice with the Area Engineers and maintenance team. *Prishaun Reddy 30.4.2109*
3. Work with the Maintenance Front line supervision to change the mindset regarding their oversight role of specialist service providers. *Prishaun Reddy & Saras Moodley 30/4/2019*
4. Develop and Roll-out with Maintenance, Turnaround and Projects Department the "What Good Looks Like" standard for HSSE plans.
Mbulelo Yokwe 30.6.2019
5. Review and rollout the expectation regarding the requirement for HSSE plans for unplanned activities with the potential for work scope to grow.
Mbulelo Yokwe 30.6.2019