

Natref SHE Learning

Learning number		FY20-010										
Operating Entity		Natref										
Date of incident		26 March 2020										
Incident type	Occupational Safety	Process Safety	Environment	Product Transportation	Health	Security	Equipment Damage	PSF				
	X											
Relevant Life Saving Rules												
	X											
Relevant Process Safety Fundamentals												
Key Undesirable Event		Falling from elevated position										
Description of the incident		During isolation of the fire water system at FBV/B/2, the plant operator used a valve spanner to close the valve with both feet positioned on the solid cover located on top of the pit. As he was trying to close the valve, the cover started to tilt in and he reacted by placing his left foot onto the ground. In the process, the operator sustained an injury on his right leg.										
Underlying and root causes		Cause: Broken support underneath the solid cover plate. Underlying cause: No inspection or maintenance strategy on grating / plates which cover pits										

Key learning and control improvement recommendations

An inspection and maintenance strategy should be developed for all solid cover plates on Fire water and Cooling water pits to confirm their mechanical integrity.

Identification of standard or good practice related to the incident

- Valve hand wheels should be ergonomically accessible
- Mesh grating offers improved visibility for inspection and risk identification when compare to solid plates



Figure 1. Shows the Fire water pit where the incident took place

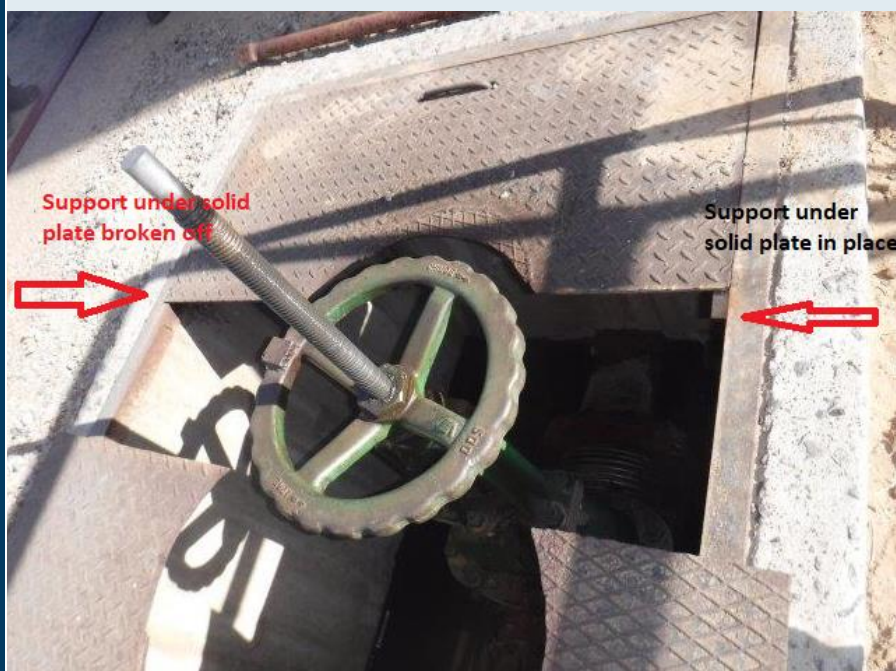


Figure 2.

Indicates that the support under the solid plate was broken off which allow the plate to tilt.

To prevent future incidents, it is recommended that this incident learning is appropriately shared and implemented by relevant persons in your Operating Model Entity, where applicable.

Together towards ZERO HARM and SUSTAINABILITY