

## Significant Incident Alert

<b>Type of Incident</b>	Near Miss - Equipment Damage
<b>Key Issues</b>	Hook Block Uncontrolled Movement
<b>INX ID</b>	79117
<b>Date &amp; Time</b>	13 <sup>th</sup> January 2022
<b>Location</b>	Nurumi Primary Crusher
<b>Injury</b>	No Injuries



### DESCRIPTION

After completing a planned unloading task, the operator of the 25T Franna Crane (CR70) retracted the boom and then hoisted up the hook block to position in readiness to travel. Whilst putting the crane into travel mode, the winch rope broke and the hook block fall to the ground from a height of ~1.6 m. No one was within the vicinity of boom slew area. No injuries incurred.

### FINDINGS AND KEY LEARNING

Identified Causal and Potential Contributing Factor(s).

- Winch rope fatigue and service life in region block/sheeves due number load cycles.
- Use of the Anti 2 Block override system in readiness to travel (standard operating procedure) with potential to over load/damage the winch rope (single/cumulative effects).
- Potential incorrect crane block reeving resulting in winch rope damage/fatigue.

#### Key Learning

- The serviceable life of a winch rope requires to consider the operating conditions, operating hours, the number of load cycles and the reeve design, with regard to the winch rope schedule replacement. The investigation results also reinforce the importance of daily prestart and scheduled maintenance inspections to identify potential indications of winch rope fatigue or damage.

### ACTIONS

- All cranes immediately stood down sitewide and winch ropes inspected prior to returning to service.
- Progressively replace all existing Franna Crane winch ropes with certified new OEM ropes (prioritise highest to lowest machine hours).
- Scheduled maintenance (PM02) for Franna Cranes to include wire rope change out every 12 to 18 months or 2,500 to 3,000 hours and review change out frequency for other cranes.
- Sitewide crane daily prestart's and scheduled maintenance to include specific winch rope inspections in the region of the hook block, including rope lubrication and correct reeving.
- Review and update the crane operator and maintenance training materials, SWP's etc, to include key learnings and actions.
- Review availability and potential benefits of installing OEM after market devices to reduce the potential to overload/damage the winch rope when overriding the Anti 2 Block prior to travel or when using the telescopic boom 3 mode.

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