




DEFECT NUMBER	OC47.06 (Prev. 89)	EQUIPMENT	KPCV10 - MP Reject Conveyor 10M	FACILITY	Oaky Creek Open Cut
DEFECT CATEGORY	Structural	COMPONENT	Steel Beam	INSPECTED BY	Eduard Hernandez
DEFECT TYPE	Steel Corrosion	LOCATION	Crossbeam near Idler 161	DATE	08-11-2025
Description of Structural Integrity Issue	Severe through-section corrosion has occurred on the crossbeam near Idler 161 on MP Reject Conveyor 10M. The defect presents as advanced material loss with multiple perforations, compromising both the web and flange of the structural member.				
Structural Risk Assessment:	Potential Incident:	Structural Failure Mechanism:		Consequence:	Likelihood
	If not fixed, the crossbeam may fail, leading to a failure of the conveyor system. This could cause injuries to workers and disrupt operations significantly.	The corrosion weakens the beam, increasing the risk of bending and shear failure under load.	Risk Assessment:	3-Moderate. This rating is based on Financial impact: \$5M to \$50M operating profit \$1M to \$5M property damage \$5M to \$25M asset devaluation	B - Likely - May occur about once per year.
			Required Action:	Planned Corrective Action	
Previous Audit Result for Defect:	Significant material build up on beams and contacting return idler which may present a fire hazard. Minor corrosion on cross beam.				Severity Level:
Corrective Action:	1. Remove all debris and coal buildup from the crossbeam. 2. Sandblast the affected area to remove corrosion. 3. Weld a reinforcement plate over the damaged section. 4. Replace any severely damaged sections of the beam if necessary. 5. Apply a protective coating to the repaired area to prevent future corrosion.				Estimated Corrective Action Cost:
Photos:	<div><div><div><div>DIRECTION 182 deg(T)</div><div>23.07094°S 148.48753°E</div><div>ACCURACY 6 m DATUM WGS84</div></div><div>MP Reject Conv. 10M Crossbeam Idler 161</div><div>89 - Steel Corrosion</div><div>2025-11-08 07:50:15+10:00</div></div><div><div><div>DIRECTION 215 deg(T)</div><div>23.07090°S 148.48753°E</div><div>ACCURACY 4 m DATUM WGS84</div></div><div>MP Reject Conv. 10M Crossbeam Idler 161</div><div>89 - Steel Corrosion</div><div>2025-11-08 07:50:25+10:00</div></div><div><div><div>DIRECTION 222 deg(T)</div><div>23.07093°S 148.48750°E</div><div>ACCURACY 4 m DATUM WGS84</div></div><div>MP Reject Conv. 10M Crossbeam Idler 161</div><div>89 - Steel Corrosion</div><div>2025-11-08 07:51:33+10:00</div></div></div>				