DEFECT NUMBER	OC47.15	**EQUIPMENT**	KPCV10 - MP Reject Conveyor 10M	**FACILITY**	Oaky Creek Open Cut		
DEFECT CATEGORY	Structural	**COMPONENT**	Steel Plate	**INSPECTED BY**	Eduard Hernandez		
DEFECT TYPE	Steel Corrosion	**LOCATION**	Discharge from Reject Screen No.4	**DATE**	08-11-2025		
Description of Structural Integrity Issue	Advanced corrosion is present on the surfaces of the discharge chute from Reject Screen No.4. The degradation is widespread, with material loss evident along the chute walls and at key structural transition points.						
Structural Risk Assessment:	**Potential Incident:**	**Structural Failure Mechanism:**		**Consequence:**	**Likelihood**	**Risk Rating**	
	If not fixed, the chute may failure, causing material spillage and operational downtime. This could also lead to injuries to personnel working nearby.	The chute is at risk of buckling and shear failure due to advanced corrosion weakening its structural integrity.	**Risk Assessment:**	2-Minor. This rating is based on Financial impact: $1M to $5M operating profit $300k to $1M property damage $1M to $5M asset devaluation	C - Possible - Could occur more than once during a lifetime or life of plant.	Medium [8]	
			Required Action:	Preventive Action			
Previous Audit Result for Defect:	No previous report available.				**Severity Level:**	Moderate	
Corrective Action:	1. Remove all debris and loose material from the chute. 2. Sandblast all corroded areas to bare metal. 3. Weld reinforcement plates to areas of significant corrosion. 4. Replace any severely damaged sections of the chute. 5. Apply a protective coating to all repaired surfaces.				**Estimated Corrective Action Cost:**	5,000 - 10,000 AUD	

Photos: