DEFECT NUMBER	OC37.07	**EQUIPMENT**	KPBN01 - MP Reject Bin	**FACILITY**	Oaky Creek Open Cut
DEFECT CATEGORY	Structural	**COMPONENT**	Steel Beam	**INSPECTED BY**	Eduard Hernandez
DEFECT TYPE	Steel Damage	**LOCATION**	Beam South Side Structure Bin	**DATE**	08-11-2025

Description of Structural Integrity Issue	Permanent deformation was observed in the south beam of the MP Reject Bin structure, with the affected member displaying a noticeable lateral bend without signs of impact or collision. There is no visible tearing or section loss; however, the deflection may affect the structural alignment and induce secondary stresses in adjacent connections or support frames.					
Structural Risk Assessment:	**Potential Incident:**	**Structural Failure Mechanism:**		**Consequence:**	**Likelihood**	**Risk Rating**
	If not fixed, the bent beam may lead to structural misalignment, risking failure of the bin. This could cause operational downtime and potential injuries to workers.	The beam is experiencing bending due to excessive load or residual stress, which may lead to buckling if not addressed.	**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	D - Unlikely - Could occur about once during a lifetime or life of plant.	Medium [9]
			Required Action:	Preventive Action		
Previous Audit Result for Defect:	No previous report available.				**Severity Level:**	Moderate
Corrective Action:	1. Install temporary supports for the affected beam and any connected elements. 2. Remove the deformed beam and replace it in accordance with the design characteristics. 3. Re-install all previously connected elements.				**Estimated Corrective Action Cost:**	10,000 - 20,000 AUD

Photos: