

Risk Rating

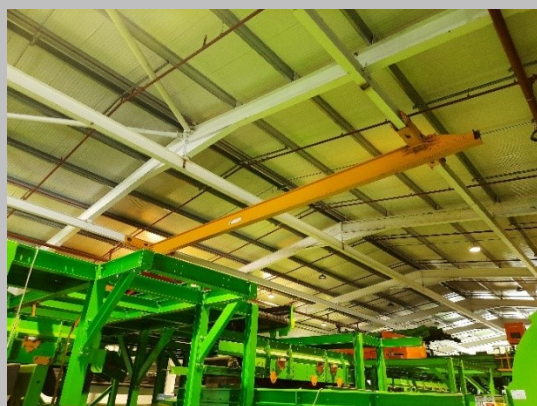


Risk Assessment & Method Statement

Task/ activity: Safe use and operation of the crane gantry system- MDR Extension

Task/ activity description:

Safe lifting operations using the crane gantry system for the installation and maintenance of fixed plant machinery in the MDR extension.



Likely to be effected: Operatives, subcontractors, others

Risk Scoring = multiply severity by probability SxP=R

Severity	Probability	Risk Category
5 Fatality or disaster	5 Highly likely	
4 Major injury, damage or loss	4 Very likely	High = 15-25
3 Reportable injury or occurrence	3 Likely	Medium = 9-14
2 Minor injury, less than 3 days lost time or minimal loss	2 Unlikely	Low = 1-8
1 Minor injury, no lost time or damage	1 Very unlikely	

Hazard	Control measures to be taken to reduce risk	Risk scoring		Risk rating
		S	P	
Falling object/ Lifting operations	- Any load to be lifted is to be assessed and planned by a competent individual. - Loads are not to exceed the safe working load of the crane. Perform test lifts to ensure load stability and security and to confirm centre of balance is maintained. - Never lift any load over a person's head.	5	2	10

	• Inform all individuals working in area. • Ensure proper means of slinging/ attaching the load for lifting. • Always carry out pre-use checks on the crane and lifting equipment and its functions before use. • Identify signs of damage or defects, escalate these items for immediate action and do not use the apparatus. • Transport the load as low to the ground as possible. • Lifting operations are to carry out and supervised by competent and authorised personnel.			
Suspended loads	• Never leave a suspended load unattended. • Never lift a load over a person's head. • Ensure suspended loads are controlled at all times, use guide ropes if necessary to control the lift. • Two-way radio contact must be maintained. • All persons working in the vicinity of the lifting operation to be informed of the lift plan. • Transport loads as low to the ground as possible. • Carry out test lifts to ensure the load is stable and secure. • Ensure lift chains and slings are suitable to hold the weight of the lift. • Hard hats must be worn when working with the gantry crane.	5	2	10
Trapped/ entrapment	• Lifting operations are to be planned by and carried out by a competent person under supervision. • Work area to be kept clear of trip hazards. • All personnel in the area to be informed of the lifting operation and unnecessary persons removed from the area for the duration of the lift. • Ensure the load will not catch anything when being lowered. • Ensure the load is set down securely. • Ensure the load is lifted sufficiently to just clear any obstruction.	5	2	10

Slip / Trips / Falls	- Access to all areas to be maintained, loose material to be removed on a regular basis. - Before starting any lifting operation, clear the work area and remove any slip or trip hazards. - Safety footwear must be worn in the intake areas.	4	2	8
Mechanical failure	- Crane is to be inspected before use, taking care to check for any signs of damage or defects, including slings, chains, hooks, or other means of lifting equipment. - Crane is to be tested by a competent engineer annually. - Ensure the controls of the crane are operation and functioning properly before use.	3	2	6

Approval and review

Assessor:	Signature:	Position:	Date:
Wesley Jameson		Health & Safety Manager	Apr 2024
Approved by:	Signature:	Position:	Date:
Joseph Doherty		Chief Executive Officer	Apr 2024
Reviewed on:	Apr 2024	New version number:	2
Date of next review:	Apr 2025, or as an when required		

PPE Requirements

- Hard hats, Hi-vis, 2-way radios, safety boots

Method statement

PRE-OPERATIONAL SAFETY CHECKS

Ensure operator has required training and current Verification of Competency to use the gantry crane and/or attach lifting gear to the load.

Ensure control pendant, emergency stops, path of travel, guide ropes and hooks are in serviceable condition.

Conduct Pre-operational checklist for Gantry Crane. Report damage or defects to your manager or supervisor immediately.

Ensure gantry crane has a nominated SWL clearly visible on the cross beam.

Ensure load to be lifted is within the SWL of the crane and the available lifting gear (i.e. 2t load using 2t chains) and attached to a gantry of more than 2t rated lifting capacity.

Ensure all lifting gear has been tested and tagged and is in current test certification (chains, shackles, slings, and hooks).

Ensure lifting gear is inspected and showing no signs of damage – rips, tears wear marks or sharp edges and that the SWL is legible.

If damaged, isolate the crane as out of service and report to your supervisor or manager.

Clear area of unauthorised personnel.

Ensure the lifting path is clear of obstructions that will hinder the raising and lowering of the object.

Ensure all lifting points for the load are inspected by a Rigger or Dogger or by appropriately trained person.

OPERATIONAL SAFETY CHECKS

Ensure attaching lifting sling, chain, or load levelling device to the hook of the crane is to be performed by a Rigger or Dogger or by appropriately trained person.

Position the gantry hook centred directly above the load to be lifted.

ALWAYS make sure the load is properly seated in the hook and the safety latch of the hook is engaged.

Take up any slack of the lifting equipment and raise slightly.

Check the balance of the load.

Ensure the slings are secure and load is free.

Check the travel path is clear.

Ensure the load hangs vertically below the hook at all times.

Ensure the load is only lifted sufficiently to clear any obstructions.

Ensure Tag lines are connected to load.

If the load swings move the gantry crane in the direction of the swing if possible.

Ensure the landing area is free of obstruction.

Ensure the load will not catch on anything during the lowering of the load.

Ensure the load is positioned correctly on the ground without the potential to shift.

ENDING OPERATIONS AND CLEANING UP

Unhook lifting devices from load, lift hook assembly into gantry beam and position the gantry in a safe position.

Inspect lifting gear to ensure no damage has occurred.

Store lifting gear in a dry and clean area and avoid leaving any trip hazards.

Isolate the energy source to the Gantry Crane.