



## Risk Assessment - Crane lifts of components, equipment or supplies

Reference No: STE-44322-40

Version No: 4

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Department: Global  
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### Crane and Hi-ab lifts of various items

| Type              | Hazard Cause   | Persons Affected | Control Measures  | L<br>Overall   | S      | T    | Additional Control Measures | L<br>Overall   | S      | T   | Owner/Action  |
|-------------------|--|------------------|---|--|--------|------|-----------------------------|--|--------|-----|---|
| Health and Safety | Damage to surrounding infrastructure<br>Contact between crane, lifted items and surrounding infrastructure | Everyone         | 1) CRITICAL - Engineering: A Lift Plan should be in place and identify any issues prior to the lift starting - Effective<br>2) CRITICAL - Administrative: Lift area to be assessed and cleared of any unnecessary items to reduce the likelihood of any impact - Effective<br>3) CRITICAL - Administrative: A lifting supervisor to be present to control the activity - Effective<br>4) CRITICAL - Administrative: Use a minimum number of assistants to monitor the lift, look for blind spots and alert the crane driver or lift supervisor of any issues - Effective<br>5) CRITICAL - Administrative: The item being lifted must be inspected and cleared of anything likely to become dislodged or fall during the lift. - Effective   | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = 6  | None |                             | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = 6  | n/a | Medium - Risk to be minimised and controlled so far as is reasonably practical. |
| Health and Safety | Failure of Lifting Gear<br>Structural failure of crane, strops, slings etc                                 | Everyone         | 1) CRITICAL - Administrative: Always use a professional, suitably qualified and certified contract company to provide the crane, hi-ab, operatives and lifting gear. - Effective<br>2) CRITICAL - Administrative: Ensure that a suitable lift plan is in place and that all equipment to be used is capable of the requirements - Effective   | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 5 = 10 | None |                             | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 5 = 10 | n/a | Medium - Risk to be minimised and controlled so far as is reasonably practical. |
| Health and Safety | Injury to People<br>Contact with moving equipment  | Everyone         | 1) CRITICAL - Engineering: Use barrier tape or other means to isolate the work area from others - Effective<br>2) CRITICAL - Administrative: Only those involved in the lift directly to be in the work area - Effective<br>3) CRITICAL - Administrative: Stop the lifting operation if anyone enters the lift area - Effective<br>4) CRITICAL - Administrative: Assess all potential pinch points for those involved in the lift - Effective<br>5) CRITICAL - Administrative: Never walk underneath a lifted load - Effective<br>6) Administrative: Consider carrying out lifts on days when volunteer numbers are low. - Effective<br>7) Administrative: If possible, carry out lifts on days when the railway is closed to the public - Effective<br>8) CRITICAL - PPE: All those involved in lifting operations to wear appropriate PPE including but not limited to safety footwear, hard hat, gloves and hi-viz - Effective | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = 6  | None |                             | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = 6  | n/a | Medium - Risk to be minimised and controlled so far as is reasonably practical. |



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Crane lifts of components, equipment or supplies - Global**

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|-------------------|---|------------------|---|--|-----|---|-----------------------------|--|-----|---|--------------|
| Health and Safety | Impact of weather conditions<br>High winds causing issues with unstable lifts   | Everyone         | 1) CRITICAL - Administrative: Wind speeds to be checked before a lift starts and cross referenced to the safe working limits of the equipment in use. - Effective<br>2) CRITICAL - Administrative: For prolonged lifts the wind speed must be measured throughout the job and appropriate action taken if the speed becomes excessive. - Effective<br>3) CRITICAL - Administrative: Particular care to be taken if gusting winds are present. - Effective<br>4) CRITICAL - Administrative: Impact of impairment of vision during periods of heavy rain, snow or fog to be considered. - Effective<br>5) Administrative: Consider checking the weather in advance via the Met Office for any issues. - Effective | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = | 6 | None                        | 2 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 3 = | 6 | n/a          |
| Health and Safety | Distraction or involvement by others<br>Activities of persons not involved in the lifting operation impacting the potential to cause an issue | Everyone         | 1) CRITICAL - Engineering: Barrier tape or other means to be used to safeguard the lift area if there is the possibility of interference. - Effective<br>2) CRITICAL - Administrative: In advance of the lift all persons likely to be in the work area to be informed of the work and instructed not to enter the designated lift area. - Effective  | 3 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 2 = | 6 | None                        | 3 x<br>Medium - Risk to be minimised and controlled so far as is reasonably practical. | 2 = | 6 | n/a          |

### **COSHH Assessments**

There are no COSHH assessments associated with this risk assessment.

### **Reference Documents**

- Previous crane lift risk assessment - Original Word based document used as the basis for this 'new' risk assessment.
- Generic Crane Lift Method Statement -
- Example Lift Plan -

Ends