



Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Tower Scaffolding System - Carriage and Wagon

Risk Assessment - Tower Scaffolding System

Reference No: CAR-45140-80

Version No: 1

Assessment Approver: Kevin 'Kev' Jarvis

Use of tower scaffolding

Department: Carriage and Wagon

Date Of Assessment: 02 August 2023

Review Due Before: 05 October 2028

Lead Assessor: Roger Exton

Team:

Incorrect methods of erection or dismantling

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|---|--------------------|---|--------------|---|------|-----------------------------|--------------|---|-----|--------------|
| Health and Safety | Dangerous scaffolding Staff or volunteers not trained | Volunteers & Staff | 1) CRITICAL - Administrative: All tower scaffolding is to be erected and dismantled as per the manufacturer's instructions using a safe method of work, either using the Advance guard rail system or the Through The Trap door (3T). A copy of the manufacturer's instructions must be available. At least one member of a scaffolding team must be appropriately qualified. All components should be checked for any faults - Effective 2) CRITICAL - Administrative: See also working from Height - Effective | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | n/a | |

Tower scaffolding defects

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|--|--------------------|---|--------------|---|------|-----------------------------|--------------|---|-----|--------------|
| Health and Safety | Faulty parts Improper use of or failure of equipment | Volunteers & Staff | 1) CRITICAL - Engineering: All towers must be inspected by a competent person at regular intervals. If used for construction or a person could fall 2 metres or more from the working platform, it should be inspected every 7 days using a visible tag system. - Effective | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | n/a | |

Moving a Tower

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|--|--------------------|---|--------------|---|------|-----------------------------|--------------|---|-----|--------------|
| Health and Safety | Tower relocation Moving a tower on soft, slippery or uneven ground | Volunteers & Staff | 1) Engineering: Always reduce the tower height to below 4m, temporarily raise the outriggers, check for overhead powerlines and other obstructions, check the ground is firm with no potholes or obstacles. Push or pull using manual effort at the base. - Effective | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | n/a | |

Scaffold Quality



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|-------------------|---|--------------------|---|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Damaged components faulty or damaged components | Volunteers & Staff | 1) CRITICAL - Engineering: All towers must be inspected by a competent person at regular intervals. If used for construction or a person could fall 2 metres or more from the working platform, it should be inspected every 7 days using a visible tag system. - Effective | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | None | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | n/a |

Scaffold Collapse

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|--|--------------------|---|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Falling from scaffold Scaffold on uneven, sloping or slippery ground | Volunteers & Staff | 1) CRITICAL - Engineering: Ensure the tower is fitted with guard rails and toe boards or other barriers. Cordon off the work area if required. Think about good house keeping and the effect the wind could have on large materials - Effective | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 2 | None | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 2 | n/a |

Overloading

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|---|--------------------|---|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Workers and or materials exceeding the tower load rating Not understanding the load weight | Volunteers & Staff | 1) CRITICAL - Engineering: Do not exceed the specific rated loading weight for the tower. Tower must have suitable guard rails and toe boards. Consider barriers to make a safe work area around the tower if required. - Effective | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 2 | None | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | n/a |

Falling objects



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|-------------------|---|--------------------|---|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Injury from falling objects No toe boards fitted | Volunteers & Staff | 1) CRITICAL - Engineering: Check the working height is as per the tower instructions. Falls should be prevented where there is a risk that a fall could result in a personal injury. Edge protection, toe boards must be provided on at least 3 sides - Effective | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | None | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | n/a |

Miss use of the Tower

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|---|--------------------|---|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Incorrect use of the tower Making the tower unstable | Volunteers & Staff | 1) Engineering: The stability of the tower can be easily affected, never use sheeting or use the tower in strong winds, load with heavy equipment, use the tower to hoist loads or support rubbish chutes, support ladders or other access equipment. - Effective | 1 x 1 = 1 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 1 | None | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 2 | n/a |

Working from Height

| Type | Hazard Cause | Persons Affected | Control Measures | L Overall | S | T | Additional Control Measures | L Overall | S | T | Owner/Action |
|-------------------|--|--------------------|--|--------------|---|---|-----------------------------|--------------|---|---|--------------|
| Health and Safety | Slips/Trips/Falls using the tower scaffold without guard rails or toe boards | Volunteers & Staff | 1) CRITICAL - Engineering: Check the working height is as per the tower instructions. Falls should be prevented where there is a risk that a fall could result in a personal injury. Edge protection, toe boards must be provided. Guard rails on three sides should be provided. Do not overreach when working. Work only within a safe reaching distance. Consider the use of harnesses. - Effective | 1 x 3 = 3 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 3 | None | 1 x 2 = 2 | Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | 2 | n/a |

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.
Ends