

Gloucestershire Warwickshire Steam Railway Plc Risk Assessment for 1675 - Safety Review - Carriage and Wagon

Risk Assessment - 1675 - Safety Review Reference No: CAR-45862-60

Version No: 1

Assessment Approver: Kevin Jarvis

The Management of Change assessment for the refurbishment of this vehicle identified that an RA was required to look at the H&S aspects of the project. A lot of the detail of the control measures is listed in the MoC but this RA compliments that.

Department: Carriage and Wagon Date Of Assessment: 24 July 2025 Review Due Before: 24 July 2030 Lead Assessor: Kevin Jarvis

Team: Ian Stroud, Richard Budd, Richard Bates, Alan

Nicholls, Neil Carr & Stuart Tyles.

Operation of battery powered and fully refurbished RBR 1675

| Туре | Hazard Cause | Persons Affected | Control Measures | L S T Overall | Additional Control Measures | L S T Overall | Owner/Action |
|----------------------|--|---------------------|---|---|-----------------------------|------------------|--------------|
| Health and Safety | Project impact on physical properties and components of the existing carraige Project design error or misunderstanding | Everyone | 1) CRITICAL - Engineering: Ride height adjusted for new weight distribution - Effective 2) CRITICAL - Engineering: suspension checked with tolerance - Effective 3) CRITICAL - Engineering: Crash pillars replaced - Effective 4) CRITICAL - Engineering: Door locks removed, replaced and checked - Effective 5) CRITICAL - Engineering: Generator set will require oil change every 100 hours - Effective 6) CRITICAL - Administrative: Maintenance Exams completed - Effective | 1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | n n n | n/a |
| Health and Safety | Gas leaks Incorrect or poor installation of existing and new equipment | Everyone | 1) CRITICAL - Engineering: Gas systems professionally fitted - Effective 2) CRITICAL - Engineering: All of the gas system, except the bottle changeover valve, is located outside of the vehicle - Effective 3) CRITICAL - Administrative: Annual inspection carried out in line with gas regulations - Effective 4) CRITICAL - Administrative: Bottle changing arrangements unchanged but should be less frequent - Effective | 1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | n n n | n/a |
| Health and Safety | Battery fire, explosion or malfunction Wrong specification, poor installation, unsuitable equipment | Everyone | 1) CRITICAL - Engineering: Batteries tested and conform to European Rail mounted lithium batteries standard - Effective 2) CRITICAL - Engineering: Charging carried out overnight in a very similar fashion to what happens now Effective 3) CRITICAL - Engineering: Batteries located outside of the carriage in a ventilated box with explosion mitigation - Effective 4) CRITICAL - Engineering: Battery enclosure is force ventilated and thermostatically controlled - Effective | 1 x 3 = 3 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | n n n | n/a |
| Health and Safety | Injury or incident caused by new kitchen equipment Poor specification, unsuitable equipment | Everyone | CRITICAL - Engineering: Professionally designed and installed equipment Effective CRITICAL - Engineering: Restrained in position - Effective CRITICAL - Engineering: Suitably labelled throughout - Effective CRITICAL - Administrative: Training guides to be prepared for operating equipment and practice sessions held - Effective | 1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | n n n | n/a |
| Health and Safety | Impacted Operations Lack of awareness, training or knowledge | Everyone | CRITICAL - Engineering: Fire extinguishers present - Effective CRITICAL - Administrative: Guards and RCS staff to be suitably trained - Effective | 1 x 2 = 2 Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level. | None | n n n | n/a |



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| Health and Safety | Electrical issues Por specification, commissioning, design and function of new systems | Everyone | CRITICAL - Engineering: Systems diagrams, operating instructiog guides to be issued Effective CRITICAL - Administrative: Bespoke electrical control system design, installed, commissioned by electrical professionals using standard industry components Effective CRITICAL - Administrative: System to be EICR tested by a competent contractor - Effective | Low - Risk to | to | n n n n/a |

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