



Gloucestershire Warwickshire Steam Railway Plc
Risk Assessment for Class 24 Bogie Jacking - Diesel Loco

Risk Assessment - Class 24 Bogie Jacking

Reference No: DIE-44532-91

Version No: 2

Assessment Approver: Kevin 'Kev' Jarvis

Used whilst maintain bogies and their components.

Department: Diesel Loco

Date Of Assessment: 02 December 2021

Review Due Before: 22 June 2026

Lead Assessor: Andy Durham

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Use of hydraulic jacks to lift and lower bogie components

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
Health and Safety	Personal injury and equipment damage Equipment collapse or pinch in injuries.	Volunteers & Staff	1) CRITICAL - Engineering: All 4 jacks must be in place before the lifting begins and must be operated together. - Effective 2) CRITICAL - Engineering: Jacks must be inspected, certified and in-ticket. - Effective 3) CRITICAL - Engineering: Each jack must have a minimum of 10 ton capacity. - Effective 4) CRITICAL - Engineering: The bogie must be scotched and secure so that it can not roll. - Effective 5) CRITICAL - Engineering: Jacking must be a maximum of one sleeper height at a time and then extra packing has to be inserted before jacking recommences. - Effective 6) CRITICAL - Engineering: Packing should be hard wood in good order with no sign of rot, splits or damage. - Effective 7) CRITICAL - Engineering: Packing should be of equal height at all four jacking points. Two on each side of the bogie. - Effective 8) CRITICAL - Engineering: Concurrent levels of packing should be at right-angles to each other to reduce risk of toppling or collapse. - Effective 9) CRITICAL - Engineering: Packing should be to a maximum of 7 sleepers high. - Effective 10) CRITICAL - Administrative: All body parts to be kept well clear of pinch points. - Effective 11) CRITICAL - Administrative: Each jack operator must closely monitor their jack and shout 'Stop Lift' if a gap is noticed between the jacking face and the load or if any other unusual circumstance occurs. - Effective	2 x Medium - Risk to be minimised and controlled so far as is reasonably practical.	4 = 8		1) Administrative: Consider use of contractors to perform this task off site. - Effective	1 x Low - Risk to be monitored to ensure it remains adequately controlled to an acceptable level.	1 = 1		n/a

Score and Control Measure Notes.

Risk is medium due to potential injury from a crush.

No H&S risk if this option taken but large financial and practical implications.

COSHH Assessments

There are no COSHH assessments associated with this risk assessment.

Ends