



**Risk Assessment - Steam locomotive preparation**

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 Assessment Approver: Ian Butler

Department: Steam Loco  
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**Steam loco preparation**

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Personal Injury Slips, trips, falls, strains, burns, crush, manual handling, falls from height etc.	Volunteers & Staff	1) CRITICAL - Elimination: All those involved must have undertaken the GWSR Working at Height training. - Effective 2) CRITICAL - Elimination: Before the loco is moved for the first time the footplate crew must check and satisfy themselves that nobody is under the loco or in a position to become trapped, crushed or entangled. - Effective 3) Elimination: Not to be moved sign to be displayed when preparing locomotive - Effective 4) CRITICAL - Elimination: All those involved must have undertaken the GWSR Confined Spaces training. - Effective 5) CRITICAL - Engineering: Lighting must be provided in hours of darkness. - Effective 6) CRITICAL - Engineering: Walkways and work areas must be gritted during freezing conditions. - Effective 7) CRITICAL - Engineering: Staging or ladders must be used for accessing the top of locos and three points of contact must be maintained when working at height. - Effective 8) CRITICAL - Engineering: When the boiler is under pressure the water level gauge glass is to have the safety frame in position in case of tube breakage. The safety frame can be removed once pressure is removed from it or the gauge glass is isolated. - Effective 9) CRITICAL - Engineering: The loco must be stopped and secured by means of hand brakes, scotches or other means with the regulator closed, mid gear selected and cylinder cocks open. - Effective 10) CRITICAL - Administrative: Those undertaking the task must be trained and competent - Effective 11) CRITICAL - Administrative: Lone Working is not allowed if Working at Height or Confined Space tasks are to be carried out. - Effective 12) CRITICAL - Administrative: Any loco movements must be carried out by trained, competent staff in accordance with the GWSR Rule Book. - Effective 13) CRITICAL - Administrative: Be aware of the risk of falling when working around an open loco inspection pit. - Effective 14) CRITICAL - Administrative: The area must first be cleaned and tidied of any items that would cause a slip or trip hazard. - Effective 15) CRITICAL - Administrative: If using ladders, steps, scaffold or other working at height equipment it must be checked, inspected and 'in-ticket' before use. - Effective 16) CRITICAL - Administrative: Be aware of own physical limitations and the weight of components such as the smoke box door. - Effective 17) CRITICAL - Administrative: Be aware of hot surfaces and the potential for burns as the locomotive is brought into steam. - Effective 18) CRITICAL - Administrative: Footplate crew must be trained in how to isolate the gauge frame in case of a gauge glass breakage. - Effective 19) CRITICAL - Administrative: Un-trained and non-competent staff are not to operate any valves or other controls unsupervised. - Effective 20) CRITICAL - Administrative: Use correct posture and good lifting techniques. - Effective CONTINUES ON NEXT PAGE	2 x 5 = 10 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) PPE: Consider wearing a bump hat to avoid injury. - Effective 2) PPE: Consider wearing eye protection. - Effective 3) PPE: Consider using Barrier cream before starting the task. - Effective	2 x 5 = 10 Medium - Risk to be minimised and controlled so far as is reasonably practical.	n/a



**Gloucestershire Warwickshire Steam Railway Plc**  
**Risk Assessment for Steam locomotive preparation - Steam Loco**

Type	Hazard Cause	Persons Affected	Control Measures	L Overall	S	T	Additional Control Measures	L Overall	S	T	Owner/Action
			21) CRITICAL - Administrative: Be aware of the COSHH implications of lubricants. - Effective 22) CRITICAL - Administrative: Avoid skin or eye contact with oils and greases. - Effective 23) CRITICAL - Administrative: Other drivers and crews must only move their locos in the vicinity of this preparation task when it is confirmed that all personnel working on the same track's locos have suspended their work and are clear during the period of movement. - Effective 24) CRITICAL - PPE: Safety footwear, overalls and gloves must be worn as appropriate - Effective 25) CRITICAL - PPE: A first aid kit must be available locally. - Effective								

**Score and Control Measure Notes.**

Risk is medium due to the potential for a serious injury or fatality if an incident was to occur.  
Risk remains medium.

**COSHH Assessments**

The following COSHH assessments are applicable to this risk assessment:

- COSHH-43998-83 - Kerosene
- COSHH-43963-75 - WD-40
- COSHH-44209-7 - CS 201 Car Shampoo
- COSHH-44635-72 - Coal (Sized) - Miller Argent
- COSHH-44656-95 - Columbian Steam Coal 50x100mm
- COSHH-44958-11 - Turtle Wax - Zip Wax

**Reference Documents**

- Use of Smokebox Access Platform - Guide on the safe use and movement of Smokebox Access Platforms.

Ends