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| Ref:             | NR/L2/RVE/0134 |
| Issue:           | 1              |
| Date:            | 01 Dec2008     |
| Compliance date: | 01 March 2009  |

## Level 2

# Shunting Vehicles for Use at Underfloor Wheel Lathes

### Endorsement and Authorisation

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## Issue record

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## Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 1<sup>st</sup> March 2009.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 4 to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Stage 4 was reached and not to comply with requirements contained herein, unless the designated Standard Owner has stipulated otherwise in the accompanying Briefing Note.

## Reference documentation

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| GM/GN2690           | Guidance Note: Traction and Rolling Stock – Mechanical Coupling Systems |
| GE/GN8573           | Guidance on Gauging                                                     |
| NR/L2/RVE/0133      | Design and Installation of Underfloor Wheel Lathes                      |
| BS EN 60254-1       | Lead Acid Traction Batteries – general requirements and Methods of Test |
| BS EN ISO/IEC 17050 | Conformity Assessment. Suppliers Declaration of Conformity              |
| 89/336/EEC          | Electro-Magnetic Compatibility Directive                                |
| SI 1998/2306        | The Provision and Use of Work Equipment Regulations 1998                |

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## 1 Purpose

This specification defines the technical requirements for rail borne shunting vehicles to be utilised for the haulage/positioning of rolling stock over underfloor wheel re-profiling facilities at Light Maintenance Depots (LMD's).

## 2 Scope

This specification covers shunting vehicles used solely for the purpose of hauling and accurately positioning rolling stock requiring tyre turning over underfloor wheel re-profiling machines Underfloor Wheel Lathes are detailed in Company Standard NR/L2/RVE/0133.

This specification does not apply to any shunting vehicle used for any other purposes anywhere within LMD's or on the Network Rail Infrastructure.

## 3 Definitions

**Flange Height** - The difference between the radius of the wheel at the tip of the flange, and the radius of the wheel at the tread datum position.

**Flange Thickness** - The thickness of the flange at a point 13mm above the tread datum position.

## 4 Requirements

### 4.1 General

The shunting vehicle(s) shall be battery powered utilising suitably rated traction batteries.

The shunting vehicle(s) shall be capable of being controlled manually from the vehicle cab and/or by radio remote control.

The vehicle(s) shall be capable of hauling and accurately positioning the rolling stock detailed in the contract documentation.

### 4.2 Construction

The vehicle(s) shall be of robust construction and designed with a low centre of gravity, to provide vehicle stability and effective tractive effort.

The overall dimensions of the vehicle(s) shall be such that it does not encroach on the W6A Vehicle Gauge shown in Figure 1.