

Ref:	NR/L1/TRK/002
Issue:	1
Date:	5 th March 2011
Compliance date:	5 th March 2011

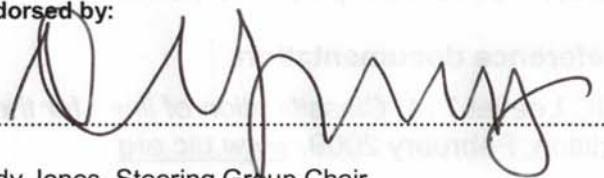
Ref:	NR/L1/TRK/002
Issue:	1
Date:	5 th March 2011
Compliance date:	5 th March 2011

Level 1

Categorisation of track

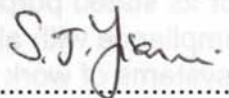
Endorsement and Authorisation

Endorsed by:



Andy Jones, Steering Group Chair

Authorised by:



Steve Yianni, Director, Engineering

Accepted for issue by:



Mick McManus, National Standards Manager

This document is the property of Network Rail. It shall not be reproduced in whole or part nor disclosed to a third party without the written permission of Network Rail.

© Copyright 2011 Network Rail.

Uncontrolled copy once printed from its electronic source.

Published and Issued by Network Rail, Kings Place, 90 York Way, London. N1 9AG.

NetworkRail



Documents

Document Sharing Hub

Ref:	NR/L1/TRK/002
Issue:	1
Date:	05 March 2011
Compliance date:	05 March 2011

Issue record

Issue	Date	Comments
1		Previously issued by Railtrack PLC as Railway Group Standard GC/RT5023, Issue Two. October 1999. Issue One was entitled <i>Track Standards Manual – Section 1: Basic Track Category</i>. September 1995.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 5th March 2011.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 3 (Option Selection) to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Stage 3 was completed and not to comply with requirements contained herein, unless stipulated otherwise in the scope of this standard.

Reference documentation

UIC Leaflet 714. *Classification of lines for the purposes of track maintenance*. 4th edition, February 2009. www.uic.org

Disclaimer

In issuing this document for its stated purpose, Network Rail makes no warranties, express or implied, that compliance with all or any documents it issues is sufficient on its own to ensure safe systems of work or operation. Users are reminded of their own duties under health and safety legislation.

Supply

Copies of documents are available electronically, within Network Rail's organisation. Hard copies of this document may be available to Network Rail people on request to the relevant controlled publication distributor. Other organisations may obtain copies of this document from IHS. Tel: 01344 328039.

Ref:	NR/L1/TRK/002
Issue:	1
Date:	05 March 2011
Compliance date:	05 March 2011

Contents

1 Purpose	4
2 Scope	4
3 Principles	4
4 Definitions	4
5 Categorisation of track	5
6 Tonnage to be used for track categorisation	6
7 Speed to be used for track categorisation	8
8 Determination of track categories	8
Appendix A Track categories	10
Figure A.1 – Track categories	10
Table 1 – Load and wear coefficients for hauled freight vehicles, K_f	7
Table 2 – Load and wear coefficients for passenger and freight tractive units, K_t	7
Table 3 – Speed coefficients	8
Table 4 – Track categories	9

Ref:	NR/L1/TRK/002
Issue:	1
Date:	05 March 2011
Compliance date:	05 March 2011

1 Purpose

This standard specifies the process for categorising track in running lines by usage and speed.

2 Scope

This Network Rail standard specifies the process for categorising track in running lines by usage and speed, so that requirements relating to design, maintenance, renewal and inspection of the track may be specified and applied.

This standard applies to all running lines where Network Rail is the infrastructure manager.

3 Principles

Requirements relating to design, maintenance, renewal and inspection of the track vary according to usage and speed. Sections of track are categorised such that the variations in the requirements may be correctly specified and applied to secure system safety and safety of interworking.

The categories to be used are based on the speed and tonnage of traffic using a running line. The tonnage is expressed as EMGTPA.

The boundaries of the categories are based on historical and experimental data. The boundaries are plotted on a graph which has speed along one axis and EMGTPA along the other axis.

This standard enables other Network Rail standards to specify requirements relating to design, maintenance, renewal and inspection of the track on the basis of a standardised categorisation system.

4 Definitions

For the purposes of this standard, the following term and definitions applies.

Equivalent million gross tonnes per annum

EMGTPA

measure of the annual tonnage carried by a section of track, taking into account variations in track damage caused by normal traffic

NOTE The calculation of EMGTPA is broadly based on that specified in UIC leaflet 714 for "theoretical traffic load".