

June 2024 ACS Rail Updates

Welcome to the **June 2024** edition of ACS Rail updates.

The following pages contain summaries of updates which may be relevant to you. Please brief and distribute this information to the relevant people as per your internal procedures.

The ACS Team

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BRIEFING REQUIREMENTS:

NOTE: Contractors are responsible for arranging and undertaking and recording their own Safety and Awareness Briefings in accordance with their own processes and procedures.



Free Access to Network Rail Standards

Free access

to Network Rail's extensive catalogue of standards and controls documentation is now available via the Network Rail Standards Portal

<https://standardse-networkrail.msapproxy.net/>

New users, please register for access to the Network Rail Standards Portal by [completing this registration form](#), so that your new log in account can be set up.

Please ensure that you use your individual company email address, and not a generic email address.

If you have any queries re the registration form or the Network Rail Standards portal, please email: STSupplierSupport@networkrail.co.uk

Important Notice: As a consequence of Network Rail's IT security policy, users accounts will be automatically deleted following 90 days of inactivity. In this instance you will be required to re-register for a new account.

Changes to Network Rail Standards

Issue 132: 01st June 2024 – 07th September 2024

Standards Change Overview – June 2024

Note: Entries in **RED** denote a standalone standard withdrawal.

Reference	Title	Issue	Compliance Date
NR/GN/CIV/006	Structures Examination Guidance for Asset Engineers and Examining Engineers	1	N/a
NR/GN/CIV/100	Strategic Design Manual	7	N/a
NR/GN/CIV/200	Station Design Manual	9	N/a
NR/GN/CIV/300	Compliance Design Manual	7	N/a
NR/L2/CIV/071	Design of Geotechnical Structures	1	01/04/2028
NR/L2/CIV/086	Management of Earthworks	12	01/10/2024
NR/L2/CIV/1000	Competence Management for Buildings and Civils Infrastructure	4	01/06/2024
NR/L3/CIV/006	Structures, Tunnels and Operational Property Examinations Manual	12	07/09/2024
NR/L3/CIV/0063	Piling, Drilling, Crane, MEWP, SPMT and similar plant operations, on or adjacent to the Railway	2	07/09/2024
NR/L3/ELP/27115	Planning DC Conductor Rail Isolations	5	07/12/2024
NR/L3/ELP/SAI25	Working On or About Overhead Line Equipment (SAI) – (For Early Deployment in North-West and Anglia Routes)	3	01/09/2025
NR/L2/MTC/001	Maintenance and Works Delivery Management Manual	1	07/12/2024
NR/L2/MTC/PL0175	Infrastructure Maintenance Planning Handbook	10	01/06/2024
NR/L3/MTC/II0219	Intelligent Infrastructure Remote Condition Monitoring Manual	5	01/06/2024
NR/L3/MTC/MG0213	Index of Standard Maintenance Forms	22	01/06/2024
NR/L2/OHS/CP0036	The provision of welfare facilities for temporary and transient work activities (formerly NR/L3/INI/CP0036)	5	28/02/2025
NR/L2/OPS/036	Management of Changes to National Operating Instructions – Signaller's Appendix	1	07/09/2024
NR/L3/OPS/045	National Operating Procedures Index	32	07/09/2024
NR/L2/P3M/224	Project Acceleration in a Controlled Environment (PACE) – Manage Risk	3	01/06/2024
NR/L2/RSE/100	Network Rail Assurance Panel Processes	8	07/09/2024
NR/L3/SCO/313	On-Track Machines (OTMs) Driver and Operations Standards Manual	14	07/09/2024
NR/L2/SIG/10027	Surveillance of Signal Maintenance Activities	6	07/09/2024
NR/L2/SIG/11201	Signalling Design Handbook	19	07/09/2024
NR/L3/SIG/10661	Signalling Maintenance Task Intervals	26	07/09/2024
NR/L3/TEL/30181	Telecoms Maintenance Work Instructions Handbook	11	07/09/2024
NR/L3/TRK/003	Index of Track Engineering Forms	47	07/09/2024
NR/L3/XNG/003	Level Crossing Risk Assessment Handbook	1	07/09/2024
NR/L3/XNG/30049	Ingegneria Dei Sistemi LXOD Handbook	2	07/09/2024
NR/L2/ELP/CTM033	Competence and Training in OLE Electrical Safety	1	Withdrawal date: 01/06/2024
NR/GN/ELP/27243	Specification for Signalling Power Supplies	1	Withdrawal date: 01/06/2024
NR/GN/ELP/27244	Guidance for Signalling Power Supplies	1	Withdrawal date: 01/06/2024
NR/GN/ELP/27310	Management of Signalling Power Supplies	1	Withdrawal date: 01/06/2024
NR/L3/RMVP/1006	Technical Audit Procedure for Plant and Traction and Rolling Stock	2	Withdrawal date: 01/06/2024
NR/L2/TEL/30087	Specification for the Maintenance of UHF Spot Scheme and Marine Radio Systems	2	Withdrawal date: 07/09/2024

Standards Updates

Current Emergency Changes

To access any active Emergency Change you need to refer to its associated Network Rail Standard. **The front page of the standard will provide details of the relevant change.** When using the online service there will be an active link to each relevant change.

Reference	Title	Issue	Date
NR/BS/LI/502	Standard/control document affected: NR/L2/TEL/30072 (Issue 3), Specification for the maintenance of DOO(P) CCTV, guard-assisted CCTV and DOO mirror systems	1	21/11/2023
NR/BS/LI/500	Standard/control document affected: NR/L2/CTM/014 (Issue 2), Competence & Training in Overhead Line Engineering	1	13/12/2023
NR/BS/LI/499	Standard/control document affected: NR/L2/CIV/196 (Issue 1), Standard Specification for New and Upgraded Escalators	1	01/06/2023
NR/BS/LI/498	Standard/control document affected: NR/L1/RMVP/0001 (Issue 5), Plant and Traction & Rolling Stock Policy	1	02/05/2023
NR/BS/LI/496	Standard/control document affected: NR/L2/OHS/003 (Issue 9), Fatigue Risk Management and associated Modules	1	03/02/2023
NR/BS/LI/490	Standard/control document affected: NR/L3/ELP/27720 Test Before Touch for Overhead Line Equipment	1	30/09/2022
NR/BS/LI/472	Standard/control document affected: NR/L2/CIV/196 (Issue 1), Standard Specification for New and Upgraded Escalators	1	28/07/2021
NR/BS/LI/440	Standard/control document affected: NR/L2/TRK/001 (Issue 15), Inspection and Maintenance of Permanent Way — Historic 07/02/2024	4	25/03/2020
NR/BS/LI/383	Standard affected: NR/L2/CTM/021 (Issue 4). Competence and Training	2	08/12/2016
NR/BS/LI/371	Standard affected: NR/L2/CIV/162 (Issue 2). Platform Extensions. Location of metal structures on Third Rail area Station Platforms	1	02/03/2016
NR/BS/LI/292	NR/L3/TRK/1010 (Issue 2). Management of responses to extreme weather conditions at structures. earthworks and other key locations	1	18/07/2013
NR/BS/LI/256	Standard affected: NR/SP/ELP/27243 (Issue 1). Specification for Signalling Power Supplies	2	24/10/2016
NR/BS/LI/163	Standard affected: RT/CE/S/130 (Issue 1). Flash-Welded Rails: Site Welded Strings	2	01/10/2010
NR/BS/LI/154	Use Of The Geismar THR542 Lightweight Stressing Equipment In Tandem. Standard affected: NR/L2/TRK/3011 (Issue 6)	1	18/01/2010
NR/BS/LI/101	Standard affected: RT/CE/S/077 Storage. Installation & Testing of TSR & ESR AWS	1	08/09/2008
NR/BS/LI/060	Traction electrical distribution sites with compromised earthing due to theft of cables - affected standard NR/SP/ELP/21032	1	23/11/2006
NR/BS/LI/047 - E&P	Bimold Connections on Rectifier Transformers at DC Traction Substations	1	05/05/2006
NR/BS/LI/032	Labelling of Track Isolating Switches (T.I.S)	1	17/10/2005
NR/BS/LI/028	Segregation of D.C. Track Feed Cables	1	22/08/2005

Current Technical Instructions

Reference	Title	Issue	Date
TI 000	Index of Technical Instructions Contained in NR/L2/SIG/11120	36	03/09/2022
TI 022	Robust Train Protection: Replacement OSS positioning rules	4	07/04/2019
TI 059	Low Voltage DC Track Circuits & Electric Point Heating	1	03/03/2007
TI 062	DC Track Circuits: Abutting Low-&Medium-Voltage Types	1	01/04/2007
TI 101	Signalling Circuits Carried Over Telecom Transmission Systems - Impact on Train Describer Specifications	2	10/12/2008
TI 149	Intelligent Infrastructure Data Logger – Design, Install and Commission	2	09/06/2011
TI 157	SSP 50 – Remote Control Standby Arrangements GK/RT0025 (GK/GN0525) - Signalling Control Centres	1	24/02/2011
TI 178	Standard/Control document affected: NR/L2/CTM/012 (Issue 3), [Competence and Training in Signal Engineering & NR/L2/CTM/012/044 (Issue 1), [Competence and Training in Signal Engineering SMTH]	2	15/03/2022
TI 181 & TI 181 Appendix	Standard/control document affected: NR/L3/SIG/11231 (Issue 18), Signal Maintenance Testing Handbook, NR/SMTH/Part05, Part08 and Part09; NR/L3/SIG/10663 (Issue 16), Signal Maintenance Specifications, NR/SMS/Part/Z/Z01	1	09/03/2023
TI 182	Standard/control document affected: NR/L3/SIG/10663 (Issue 16), Signal Maintenance Specifications NR/SMS/Part C NR/L2/SIG/30014 (Issue 21), Signal Works Testing Handbook NR/L2/SIG/30014/D115, NR/GN/SIG/19047 (Issue 3), SIGTAN047 - Points (General)	3	16/11/2023
TI 184	Standard/control document affected: NR/L2/SIG/11201 Module X39 (Issue 2); NR/L3/SIG/10661 (Issue 23); NR/L3/SIG/10663 (Issue 16); NR/SMS/PARTC/LC71 (Issue 4)	1	04/09/2023

Current Special Inspection Notices

Reference	Title	Issue	Date
NR/SIN/218	Collis Point Machine Fixing Plates	2	22/03/2024
NR/SIN/217	Inspection of Signal Overrun Protection Effectiveness at Level Crossings	1	24/11/2023
NR/SIN/217/APPENDIX A	Inspection of Signal Overrun Protection Effectiveness at Level Crossings – Appendix A	1	24/11/2023
NR/SIN/216	Replacement of Frauscher IMC040 Boards with IMC040A Boards in Vamos Crossing Systems	1	11/03/2024
NR/SIN/215	Escalator Step Vinyl Graphics	1	01/07/2023
NR/SIN/214	Survey of Morris Line Engineering (MLE) 1250Amp Disconnectors High Level Position "micro" switches Indication Assemblies	1	28/06/2023
NR/SIN/213	Survey of Morris Line Engineering (MLE) 1250Amp Disconnectors	1	28/06/2023
NR/SIN/212	Application of Nord-Lock washers with Frauscher wheel sensors associated with Vamos level crossings	1	27/04/2023
NR/SIN/210	Investigation into the Diversity for Critical Signalling Services provided over FTN and FTNx	1	13/07/2022
NR/SIN/207	Duvine DD920 Battery Chargers	2	18/04/2024
NR/SIN/206	Managing wheel strike risk at cast obtuse crossings	2.2	12/01/2022
NR/SIN/206/RECORD	Managing wheel strike risk at cast obtuse crossings - Workbook	1	24/12/2021
NR/SIN/204	Special Inspection Notice of Operational Property Buildings for inspection of pitched roofs gable walls	1	17/06/2021
NR/SIN/202	Safety of DTS CCTV Polecat System	1	30/07/2021
NR/SIN/199	Safety of Machinery in Network Rail Owned and Operated Depots and Facilities	1	21/01/2021
NR/SIN/196	Risk Assessment and Inspection of Longitudinal Bearer Systems	1	29/07/2020
NR/SIN/188	Removal of Howells BR985 (Mk2) Re-Engineered Hydraulic Level Crossing Barrier Packs	1	11/03/2019
NR/SIN/184	Control and Documentation of Maintenance Boundaries (track)	1	22/01/2019
NR/SIN/180	Level Crossing Train Detection Configuration	1	12/03/2018
NR/SIN/180 Appendix B	Level Crossing Train Detection Configuration – Appendix B	1	12/03/2018
NR/SIN/173	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs)	1	26/04/2018
NR/SIN/173/Appendix F	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs) - Appendix F	1	26/04/2018
NR/SIN/173/Appendix E	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs) - Appendix E	1	26/04/2018
NR/SIN/173/Appendix D	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs) - Appendix D	1	26/04/2018
NR/SIN/173/Appendix C	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs) - Appendix C	1	26/04/2018
NR/SIN/173/Appendix B	Management of risk at User Worked Level Crossings equipped with Power Operated Gate Openers (POGOs) or with both Barriers and Miniature Stop Lights (MSLs) - Appendix B	1	26/04/2018
NR/SIN/170	Manage risk of extended closure times at automatic level crossings	2	01/02/2019
NR/SIN/169	VT1 Type Relays Inspection	3	26/06/2020
NR/SIN/166	Inspection of Howells Re-Engineered Level Crossing Power Packs	1	22/05/2017
NR/SIN/162	Inspection of Dorman Classic and CLS LITE LED Signals	2	08/11/2018
NR/SIN/160	Covtec Supplementary Audible Warning Device (SAWD)	2	20/04/2020
NR/SIN/158/Appendix C	Trunnion Bolt Replacement SINAC Form	1	18/11/2016
NR/SIN/158	Level crossing pedestal trunnion bolts	1	18/11/2016
NR/SIN/143	Special Inspection of Architectural Features attached to Station Building Assets	3	24/04/2015
NR/SIN/105	Inspection of Vossloh Type Baseplate Screws in RT60 & NR60 S&C	2	25/03/2022

RSSB - Standards and the rail industry

Access all current (and many withdrawn) Railway Group Standards, Rail Industry Approved Codes of Practice (RACOPs), Guidance Notes (GNs) and Rail Industry Standards (RISs).

<http://www.rssb.co.uk/railway-group-standards>

Useful links:

- [Catalogues](#)
- [Latest Updates to Standards](#)
- [Using Standards](#)
- [Finding and staying up-to-date with standards](#)

Railway Group Standards (RGSs)

Mandatory requirements for the GB mainline railway system are defined in Railway Group Standards (RGSs). They facilitate the management and operation of the mainline railway as a shared system. RGSs set out technical requirements applicable to vehicles or the infrastructure, or processes applicable to transport operators.

Standards Catalogue <http://www.rssb.co.uk/railway-group-standards>

Rule Book (GE/RT8000)

The Rule Book (GE/RT8000) and other National Operations Publications are documents that contain direct instructions for railway staff.

The Rule Book is held in printed copy by over 100,000 people, and as such is probably the best known and most widely distributed in the entire RSSB catalogue. Even greater numbers of people are known to use it as a reference and information document both from the United Kingdom and abroad using the online version.

You can still order hard copies of individual standards and Rule Book modules or handbooks from Willsons External link (Tel: 01636 702334) or download them from the Railway Group Standards section of this site.

Rule Book App

Get 24/7 access to the Rule Book via your phone, tablet, desktop or laptop with the Rule Book App. It's easy to use, search, personalise and update, and you can acknowledge amendments with one touch. Find out more on our dedicated [Rule Book App page](#).

Rule Book Briefing Leaflet

[GERT8000-RBBL Iss 39.1](#)

Each issue of the Rule Book Briefing Leaflet contains a summary of the changes being introduced to GERT8000.

GE/RM8000 Master Module Manual

RSSB has produced this manual to provide end-users with access to the content of GE/RT8000 (The Rule Book) that is relevant to all roles as defined in the Rule Book Matrix published by RSSB:

Rule Book Module Matrix: <https://www.rssb.co.uk/-/media/Project/RSSB/RssbWebsite/Documents/Public/Public-content/Using-Standards/Rule-Book-Module-Matrix.xls>

[GERM8000-master-module Iss 8.1](#)

Controlled Document List 01 June 2024

Key

StdNo	Current standard
Stdno	New Standard
StdNo	Live standard pending withdrawal
StdNo	Superseded/Withdrawn

RAIL MANAGEMENT SYSTEM		
Ref. / Title	Issue No	Issue Date
Rail Management System		

GROUP STANDARDS Website: http://www.rssb.co.uk/railway-group-standards		
Ref. / Title	Issue No	Issue Date
Modular Rulebook GE/RT8000/ (See separate page for listed modules and issue dates)	-----	-----
GERM8000 Possession Workers Manual	9	11/2023
GERM8000 Track Workers Manual	12	09/2023
GERM8000-master-module Master Manual	13.1	11/2023
GEEN8575 Guidance Note on the Management of Electrical Risk Related to Operational Tasks on Electrified Lines	1	12/2021
GEEN8613 Application of human factors within safety management systems	1	03/2021
GLRT1210 AC Energy Subsystem and Interfaces to Rolling Stock Subsystem	3	12/2022
GLRT1212 DC Conductor Rail Energy Subsystem and Interfaces to Rolling Stock Subsystem	1	09/2015
GOGN3655 Guidance on Medical Fitness for Railway Safety Critical Workers	2	06/2014
GOGN3616 Guidance on Operational Railway Safety Awareness	1	06/2023
RIS-1530-PLT Rail Industry Standard - On-Track Plant, Trolleys and Associated Equipment	7.1	03/2024
RIS-2750-RST Supplier Assurance	1.1	12/2021
RIS-3118-TOM Incident Response Planning & Management	2	12/2019
RIS-3119-TOM Accident and Incident Investigation	3	03/2022
RIS-3279-TOM High Visibility Clothing	2	09/2019
RIS-3701-TOM Confidential Reporting System for Rail Staff	2.1	12/2019
RIS-8046-TOM Spoken Safety Critical Communications	2	12/2016
RIS-8047-TOM Reporting of Safety Related Information	2	03/2018
RIS-8070-TOM Drugs and alcohol testing for safety-critical workers	2	03/2022

LONDON UNDERGROUND (LU) STANDARDS		
Ref. / Title	Issue No	Issue Date
LUL G1163 Stations DLO - Failure Reporting Analysis & Corrective Action System (FRACAS)	A2	11/2015
LUL G1164 Making a Referral to the Drug and Alcohol Advisory and Treatment Service DAATS	A3	09/2019
LUL G1234 Incident recording, investigation and reporting	A5	05/2021
LUL G1241 Alcohol and Drugs at Work Guidelines and Information For Managers	6	07/2009
LUL G1242 Alcohol and Drugs at Work – Managers For Cause and Post Incident Check List	A4	04/2020
LUL G1249 Environmental Incident Categories	A5	07/2018
LUL G2020 Wuhan novel coronavirus	A1	01/2020
LUL G557 Electronic Incident Reporting Form (eIRF)	A5	03/2014
LUL LF29 Incident investigation & reporting or recording What you need to remember	01	n/a
LUL R0350 Guidance and advice for the use of personal protective equipment	A1	01/2014
LUL R0403 Personal Protective Equipment (PPE) catalogue	1.1	01/2014
LUL S1053 Civil Engineering – Building and Station Structures	A15	01/2023
LUL S1061 Civil Engineering – Bridges and Structures Assessment	A7	01/2023

LONDON UNDERGROUND (LU) STANDARDS		
Ref. / Title	Issue No	Issue Date
LUL S1251 Alcohol and Work; includes Written Notice 12/24/2014, 6/16/2015	A2	11/2011
LUL S1257 Drugs and Work; Includes Written Notice 01317: 12/24/2014	A2	11/2011
LUL S1538 Assurance	A17	08/2022
LUL S1548 Safety Critical Work	A7	09/2021
LUL S1552 Contract QUENSH Conditions Incorporating written notice: 05/10/2017, 05/02/2019, 16/03/2022	A18	11/2016
LUL S1601 Management Arrangements to Assure Medical Fitness	A6	12/2022
LUL S1602 Corporate Medical Standard for Personnel Requiring Safety on the Track Certification	A12	11/2022
LUL S1603 Audiometric standard for personnel requiring safety on the track certification	A8	10/2022
LUL S1604 Vision standard for personnel requiring safety on the Track Certification	A10	12/2022
LUL S1605 Providers of Medical Assessment for Track Certification and other Safety Critical Certification Purposes	A5	10/2022
LUL S1801 Competence requirements for undertaking Civil Engineering Safety Critical Work	A2	03/2022

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/CAT/STP/001 Catalogue of Network Rail Standards	132	06/2024
PTS Handbook RT 3170	10	11/2020
NR/L2/AMG/1030 Working Safely in the Vicinity of Buried Services	1	12/2008
NR/GN/CIV/003 Guidance on Engineering and Architectural Assurance of Building and Civil Engineering Works	2	12/2023
NR/GN/CIV/065 Examination of Earthworks Guidance Manual	2	09/2022
NR/GN/CIV/208 Ground Investigation	1	12/2018
NR/L1/CIV/601 Managing the Highways Interface	1	12/2021
NR/L2/CIV/003 Engineering and Architectural Assurance of Building and Civil Engineering Works	8	12/2023
NR/L2/CIV/032 The Management of Structures Manual	1	12/2021
NR/L2/CIV/035 Management of Structures	2	06/2019
NR/L2/CIV/039 Assessment and Certification of Protective Coatings Replaces: NR/L3/CIV/039 Issue 5	1	06/2023
NR/L2/CIV/076 Management of Bridge Strikes Replaces NR/L3/CIV/076 Issue 4 and NR/L3/CIV/176 Issue 4	1	03/2023
NR/L2/CIV/086 Management of Earthworks	11	12/2021
NR/L2/CIV/086 Management of Earthworks	12	06/2024
NR/L2/CIV/1000 Competence Management for Buildings and Civils Infrastructure	3	03/2024
NR/L2/CIV/1000 Competence Management for Buildings and Civils Infrastructure	4	06/2024
NR/L2/CIV/171 Examinations, Inspections and Assessments of Buildings & Architecture Assets: Structures and Fabric	3	09/2022
NR/L2/CIV/250 Landlord's Consent	1	03/2020
NR/L2/CIV/295 Scour Assessment of Bridges, Culverts and Retaining Walls	3	09/2023
NR/L2/CIV/602 Highways Interface Planning Process	1	12/2021
NR/L2/CIV/1000 Competence Management for Buildings and Civils Infrastructure	3	03/2023
NR/L2/CIV/1000 Competence Management for Buildings and Civils Infrastructure	4	06/2024
NR/L3/CIV/0001 Management of Road Vehicle Incursions (RVI)	3	12/2022
NR/L3/CIV/006 Structures, Tunnels and Occupational Property Examinations	11	03/2023
NR/L3/CIV/006 Structures, Tunnels and Occupational Property Examinations	12	06/2024
NR/L3/CIV/0063 Pilling, Drilling, Crane, MEWP and SMPT operations adjacent to the Railway	1	12/2021

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/L3/CIV/0063 Pilling, Drilling, Crane, MEWP and SMPT operations adjacent to the Railway	2	06/2024
NR/L3/CIV/040 Work Instruction for the use of Protective Coating Systems	3	06/2023
NR/L3/CIV/170 Assessment of Tunnels	2	12/2021
NR/L3/CIV/185 Reporting and Investigation of Geotechnical Incidents	5	12/2023
NR/L3/CIV/190 Developing Extreme Weather Plans	1	12/2017
NR/L3/CIV/603 Working at the Highways Interface	1	12/2021
NR/L3/CIV/604 Highways Interface Manual	1	12/2021
NR/GN/CPR/401 Guidance on Contractual Health and Safety Requirements	1	12/2008
NR/L2/CPR/201 Supplier Qualification	2	12/2011
NR/L2/CPR/302 Supplier Qualification - Core Requirements (For PCL / POL Holders)	2	09/2011
NR/L2/CSG/STP001 Standards and Controls Management Manual	8	06/2020
NR/CS/CTM/001 Competence Management	1	12/2006
NR/L2/CTM/017 Competence and Training in Civil Engineering	1	06/2006
NR/L2/CTM/021 Competence & Training in Track Safety	4	12/2010
NR/L2/CTM/025 Competence & Training in On-Track Plant Operation & Activities	2	03/2021
NR/L2/CTM/201 Competence Management	2	03/2012
NR/L2/CTM/202 Quality Assurance in Training & Assessment	3	12/2019
NR/L2/CTM/209 Competence & Training in Safe System of Work Planner	1	12/2010
NR/L2/CTM/220 Competence & Training in Portable, Transportable & Mobile Plant (PTMP) Operation & Activities	2	06/2021
NR/L2/CTM/223 Competence & Training in Managing Site Safety	1	06/2011
NR/L3/CTM/306 Skills Assessment Scheme	3	12/2023
NR/L2/ELP/21085 Earthing and Bonding on A.C. Electrified Railways	7	03/2024
NR/L2/ELP/21087 Specification of Maintenance Frequency and Defect Prioritisation of Overhead Line Electrification Equipment	11	12/2023
NR/L2/ELP/21088 General Maintenance Parameters for Overhead Line Electrification Equipment	4	06/2021
NR/L2/ELP/21090 OLE Seasonal Preparation Response for Extreme Weather	1	12/2020
NR/L2/ELP/21131 Warning and Other Signs for A.C. and D.C. Electrified Lines	4	03/2023
NR/L2/ELP/23002 Specification for High Voltage AC Cables, AC Traction Earthing and Bonding Cables DC Traction Cables, Pilot Cables and Associated Accessories	1	12/2020
NR/L2/ELP/27009 Overhead Line Equipment Campaign Changes	3	03/2017
NR/L2/ELP/27023 Conductor Rail Heating Standard	2	03/2024
NR/L2/ELP/27172 Conductor Rail Guard Boarding	1	06/2021
NR/L2/ELP/27307 Management of M&EE Safety Related Event Reports	4	12/2017
NR/L2/ELP/27402 Specification for protection and control devices for electrical systems	1	12/2009
NR/L2/ELP/27715 Overhead Contact System Design Specification	4	12/2023
NR/L2/ELP/27716 Electrical and Mechanical Clearances On Overhead Electrified Railways	1	12/2023
NR/L2/ELP/27717 Bridge Parapet Electrical Risk Assessment	1	03/2023
NR/L2/ELP/27722 Protection Principles for A.C. Electrified Railways	1	03/2023
NR/L2/ELP/27800 Specification for 25 kV a.c. Earthing Pantographs and Interface with Vehicle (On Track Plant or Road Rail Vehicles)	1	12/2020
NR/L2/ELP/CTM033 Competence and Training in OLE Electrical Safety	2	03/2024
NR/L3/ELP/21067 Instructions for making out, issuing and cancelling high voltage Permits to Work, Sanctions for Test and Circuit State Certificates	7	12/2023

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/L3/ELP/22001 Procedures and Competence Requirements for Persons Undertaking Works Near High Voltage Cables and Cable Routes	2	06/2022
NR/L3/ELP/27051 Working Instructions for d.c. Electrified Lines in the Liverpool Area	6	09/2019
NR/L3/ELP/27052 Working Instructions for D.C. Electrified Lines on the Northern City Line	8	03/2023
NR/L3/ELP/27115 Arrangements for Isolation of the Conductor Rail for Pre-Planned Possessions of the Line	4	09/2018
NR/L3/ELP/27115 Planning DC Conductor Rail Isolations	5	06/2024
NR/L3/ELP/27140 Application of Short Circuits for Conductor Rail Isolations	4	03/2019
NR/L3/ELP/27171 Electrical Insulating Gloves - Replaces NR/WI/ELP/27171	3	06/2021
NR/L3/ELP/27237 Overhead Line Work Instructions	25	12/2023
NR/L3/ELP/27250 Conductor Rail Equipment – Design and Maintenance Working Instructions	8	03/2024
NR/L3/ELP/27720 Test Before Touch for Overhead Line Equipment	1	09/2022
NR/L3/ELP/29987 Working on or About 25 KV AC Electrified Lines	9	06/2023
NR/L3/ELP/3091 DC Electrified Lines Working Instructions	5	09/2019
NR/L3/ELP/SAI25 Working On or About Overhead Line Equipment (SAI) (For Early Deployment in North West and Anglia Routes)	2	06/2023
NR/L3/ELP/SAI25 Working On or About Overhead Line Equipment (SAI) (For Early Deployment in North West and Anglia Routes)	3	06/2024
NR/L2/ENV/015 Environment and Social Minimum Requirements for Projects – Design and Construction	9	06/2021
NR/L2/ENV/115 Environment and Social Management System Requirements	1	03/2018
NR/L2/ENV/120 Waste Management	2	06/2023
NR/L2/ENV/121 Managing Environmental and Social Impact of Noise and Vibration	1	12/2019
NR/L2/ENV/122 Biodiversity	2	03/2023
NR/L2/ENV/123 Prevention of Pollution to Land and Water	1	12/2019
NR/L2/INF/02202 Records Management of Health and Safety Files	7	06/2023
NR/L3/INF/02226 Corporate Records Retention Schedule	3	12/2017
NR/GN/INI/001 Guidance on the Management of Door to Door Work & Travel Time	1	12/2008
NR/L2/INI/EDT/CP0091 Specification for Computer Aided Design	4	12/2018
NR/L3/INI/CP0028 Contract Requirements - Quality	3	06/2012
NR/L3/INI/CP0036 Provision of Welfare Facilities (see NR/L2/OHS/CP0036 June 2024)	4	08/2008
NR/L3/INV/3001 Reporting and Investigation Manual	7	09/2021
NR/L2/MTC/089 Arrangements for the exchange of asset data and the continuing maintenance of assets undergoing change	3	12/2023
NR/L3/MTC/CP009 COVID-19 Contingency Plan: Safe Working Practices	11	03/2022
NR/L3/MTC/EN0100 Waste Management	3	06/2012
NR/L3/MTC/EN0101 Management of Discharges to Sewers & Controlled Waters	3	06/2012
NR/L3/MTC/EN0225 Environ Management System for Infrastructure Maintenance	1	06/2012
NR/L3/MTC/EP0152 Working on or Adjacent to Conductor Rail	5	12/2011
NR/L3/MTC/MG0173 Monitoring of Spoken Safety Communications	4	09/2022
NR/L3/MTC/MG0210 Management of Maintenance Work within a Worksite to Prevent a Possession Overrun	3	06/2019
NR/L3/MTC/MG0213 Index of Standard Maintenance Forms	21	03/2024
NR/L3/MTC/MG0213 Index of Standard Maintenance Forms	22	06/2024
NR/L3/MTC/RCS0216 Task Risk Control Manual	28	12/2023

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/L3/MTC/RCS0216/OLE02 Risk Control Manual: Working on Red Bonds/Impedance Bonds	2	03/2012
NR/L3/MTC/SE0115 Confined Spaces Working & Entry Procedure	2	06/2008
NR/L3/MTC/SE0117 Planned Assurance Inspections and Site Surveillance	5	12/2023
NR/L3/MTC/SE0220 Planning and Delivering Safe Working at Height	2	09/2020
NR/CS/OHS/002 Policy on Working Safely	1	02/2007
NR/GN/OHS/00155 Short-term Changes in the Creation and Application of Safe Work Packs and Briefing Arrangements COVID-19 Contingency Plan (Guidance for Regions on NR/L2/OHS/019)	1	06/2020
NR/L1/OHS/052 Traumatic Incident Management	1	06/2016
NR/L2/OHS/00102 Work Activity Risk Assessments	6	12/2023
NR/L2/OHS/00110 First Aid at Work	6	09/2017
NR/L2/OHS/00112 Worksafe Procedure	3	09/2020
NR/L2/OHS/00113 Health surveillance and management of diagnoses for Hand-arm Vibration Syndrome (HAV)	5	03/2016
NR/L2/OHS/00120 Drugs, Alcohol and Substance Misuse in the Workplace	7	03/2023
NR/L2/OHS/00124 Competence Specific Medical Fitness Requirements and Occupational Health Provider Requirements for Medical Assessments	3	12/2016
NR/L2/OHS/00130 Creating a Site of Work Segregated from the Railway	2	06/2023
NR/L2/OHS/003 Fatigue Risk Management	9	12/2019
NR/L2/OHS/0044 Planning and Managing Construction Work replaces NR/L3/INI/CP0044 Work Package Planning	5	12/2016
NR/L2/OHS/0047 Managing Health and Safety in Construction (Application of the Construction (Design and Management) Regulations to Network Rail)	7	06/2019
NR/L2/OHS/019 Safety of People working on or near the Line	12	06/2023
NR/L2/OHS/020 Track Visitor Permits	5	08/2008
NR/L2/OHS/021 Personal Protective Equipment (PPE)	5	06/2023
NR/L2/OHS/022 Working Safely at Height	2	03/2020
NR/L2/OHS/032 Training, Competence and Assessment in Accident and Incident Investigation	3	09/2021
NR/L2/OHS/050 Application of the Sentinel Scheme Rules	5	09/2023
NR/L2/OHS/053 Assessing Risk of Stress in the Workplace	3	03/2022
NR/L2/OHS/157 Health surveillance for silica and asbestos and the management of diagnosed occupational respiratory conditions	1	03/2017
NR/L2/OHS/501 Trackworker Protection and Warning Systems	7	03/2023
NR/L2/OHS/CP0036 The provision of welfare facilities for temporary and transient work activities (formerly NR/L3/INI/CP0036)	5	06/2024
NR/L2/OHS/CP0070 Principal Contractor Licensing Assurance (aka NR/L2/INI/CP0070)	6	12/2022
NR/L3/OHS/0046 The Reporting, Investigation and Recording of Safety and Sustainable Development Events and Close Calls within Infrastructure Projects	3	06/2018
NR/L3/OHS/005 Design and Construction Management in a High Street Environment	4	09/2023
NR/L2/OPS/033 Recording Spoken Safety Critical Communications between Possession Management and Engineering Trains / On-Track Plant Drivers when Working in Possessions and Worksites.	3	06/2019
NR/L2/OPS/207 Training and Competence in Engineering Access Planning (formerly NR/L2/CTM/207 – Competence and Training in Planning)	1	03/2023
NR/L2/OPS/291 Railway Crime Risk Management	1	12/2019
NR/L3/OPS/0064 Delivering Work within Possessions – Replaces NR/L3/INI/CP0064	6	06/2021
NR/L3/OPS/084 Line Clear Arrangements Following Engineering Works in Axle Counter Areas – Line Clear Verification Process	6	12/2021
NR/L3/OPS/251 Unmanned Aircraft System (Drone/UAS) Operations	4	09/2021
NR/OPS/DEV/009 Network Rail: Good Practice Guide for Working at Operational Locations (Signal Boxes, Electrical Control Rooms, Controls) During COVID 19	2	06/2020

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/GN/OTK/5000 Index of Off-Track Drawings	3	12/2021
NR/L2/OTK/5201 Lineside Vegetation Management Manual	5	12/2020
NR/GN/RMVP/0200 Infrastructure Plant Manual Guidance	2	06/2022
NR/L2/RMVP/0200 Infrastructure Plant Manual	13	03/2024
NR/L3/RMVP/0201 Calibration Work Instruction Manual Replaces NR/L3/MTC/ME0201 This standard provides the index and version control of Calibration Work Instructions for the internal calibration and comparison checking of Inspection, Measuring and Test Equipment (IMTE).	2	09/2011
NR/L3/RMVP/27702 Plant Product Acceptance Process	1	12/2023
NR/L2/RSE/0005 Product Design for Reliability	5	12/2020
NR/L2/RSE/02009 Engineering Management for Projects	8	03/2023
NR/L2/RSE/070 Engineering Verification	3	03/2022
NR/L2/RSE/100 Network Rail Acceptance Panel processes	7	12/2021
NR/L2/RSE/100 Network Rail Assurance Panel processes	8	06/2024
NR/L2/RSE/CONM/001 Construction Management for Projects	2	12/2023
NR/L1/RSK/001 Network Rail Risk Policy	3	09/2019
NR/L2/SCO/302 Supplier Qualification Requirements	1	06/2020
NR/L2/SCO/310 Control of Movements in Depots, Yards and Associated Depot Sidings (Methods of Work)	1	12/2022
NR/L3/SCO/313 On-Track Machines (OTMs) Driver and Operations Standards Manual	13	09/2023
NR/L3/SCO/313 On-Track Machines (OTMs) Driver and Operations Standards Manual	14	06/2024
NR/L3/SCO/314 Engineering Assurance for T&RS, OTM and OTP Projects	3	06/2023
NR/L3/SCO/320 Supplier Quality Assurance (SQA)	2	09/2020
NR/L1/SCT/001 Security Management System (SeMS)	1	09/2023
NR/L1/SCT/002 Cyber Security and Resilience for Digital Systems Replaces NR/L1/INF/02232 Issue 2	1	03/2023
NR/SIN/185 Identification and Inspection of Plain-Lined S&C	1	06/2019
NR/L2/SIG/10160 Specification for Application of the IRSE Licensing Scheme	3	12/2020
NR/L2/SIG/11201 Signalling Design Handbook	18	12/2023
NR/L2/SIG/11201 Signalling Design Handbook	18	12/2023
NR/L2/SIG/14201 Signalling Risk Assessment Handbook	5	12/2020
NR/L2/SIG/30009 Signalling Principles Handbook	28	03/2024
NR/L2/SIG/30014 Signalling Works Testing Handbook	22	06/2023
NR/L2/SIG/50035 Competence Standard - Competence and Training in Signal and Level Crossing Engineering	7	12/2023
NR/L2/SIG/50040 Temporary Speed Restrictions replaces NR/L3/SIG/MG0110	1	12/2021
NR/L2/SIG/50050 Topographic, engineering, land and measured building surveying – Signalling	1	09/2023
NR/L3/SIG/10064 General Instructions to Staff Working on S&T Equipment	11	06/2022
NR/L3/SIG/10661 Signal Maintenance Task Intervals	25	12/2023
NR/L3/SIG/10661 Signal Maintenance Task Intervals	26	06/2024
NR/L3/SIG/10663 Signal Maintenance Specifications	17	12/2023

NETWORK RAIL STANDARDS		
Ref. / Title	Issue No	Issue Date
NR/L3/SIG/10665 Reliability Centred Maintenance of Signalling Equipment	23	06/2023
NR/L3/SIG/11231 Signal Maintenance Testing Handbook	19	12/2023
NR/L3/SIG/11235 Signal Intermediate Testing Handbook	2	03/2023
NR/L3/SIGELP/50000 Safe Working and Maintenance on or near Signalling Power Distribution Equipment above 175 V AC	5	12/2023
NR/L3/SIGELP/50001 Work Instruction: Signalling Power Distribution Equipment above 175 V AC	6	12/2023
NR/L3/SIGELP/50002 Safe Working Practices When Working on or Near Signalling Power Distribution Equipment Above 175 Volts	1	12/2016
NR/L3/SIGELP/50003 Safe Working Practices When Working on or Near Signalling Equipment	1	03/2018
NR/L2/TEL/30067 The Transmission of Safety Related Information	2	12/2011
NR/L2/TEL/30156 Functional Requirements for Safety Related Communications Equipment for On Track Plant Working	1	12/2011
NR/L3/TEL/30181 Telecoms Maintenance Work Instructions Handbook	10	12/2023
NR/L3/TEL/30181 Telecoms Maintenance Work Instructions Handbook	11	06/2024
NR/GN/TRK/7001 Index of Track Work Information Sheets (TWI)	20	03/2024
NR/L1/TRK/100 Management of Track Assets	1	03/2020
NR/L2/TRK/001 Inspection and Maintenance of Permanent Way	24	03/2024
NR/L2/TRK/1054 Inspection and Maintenance Procedures for Crossings in Track	6	09/2022
NR/L2/TRK/3038 Longitudinal Bearer Systems Inspection, Maintenance and Design	8	12/2023
NR/L2/TRK/3415 Refurbishment of Switches and Crossings	3	03/2023
NR/L2/TRK/4239 Track Bed Investigation, Design and Installation	3	12/2023
NR/L2/TRK/6100 The Installation and Maintenance of Stretcher Bars	6	06/2023
NR/L2/TRK/7014 Standardised Risk Based Maintenance Regime (RBM) for the Inspection and Maintenance of the Permanent Way	2	03/2022
NR/L3/TRK/003 Index of Track Engineering Forms	46	03/2024
NR/L3/TRK/003 Index of Track Engineering Forms	47	06/2024
NR/L3/TRK/1015 Management of Basic Visual Inspection	8	03/2023
NR/L3/TRK/1020 Track Hand Back for Projects: Confirming Track Is Safe for Opening at the Selected Line Speed After Projects Engineering Work – Replaces <ul style="list-style-type: none"> NR/L3/TRK/1017 Issue 1 	1	12/2022
NR/L3/TRK/3230 Control of On-Track Machines (OTM)	4	03/2024
NR/L3/TRK/3530 Track Lubricants	1	06/2012
NR/L3/TRK/7006 Creation and Application of an Emergency Speed Restriction (ESR) Design	3	09/2022
NR/L3/TRK/7013 Planning and Installation of Temporary Rail Joints	1	09/2021
NR/SP/TRK/1110 Qualification and Certification of Non-Destructive Testing Personnel	2	06/2023

OTHER STANDARDS & GUIDANCE	
Ref. / Title	Reference
BS EN ISO 14001:2015	2015
BS EN ISO 9001:2015	2015
BS EN ISO 45001:2018	2018
Investigating Accidents and Incidents – HS(G)245	ISBN 9780717628278
Management of Health and Safety at Work Regulations 1999 Approved Code of Practice and guidance	ISBN 9780717624881
Managing health and safety in construction Construction (Design and Management) Regulations 2015. Guidance on Regulations	ISBN 9780717666263
Successful Health and Safety Management – HS(G)65	ISBN 9780717612765
Sentinel Scheme Rules https://info.railsentinel.co.uk/about/rules/	V4 26 March 2020 Compliance Date 26 March 2020
RTAS Rules QA Reference – National Skills Academy for Rail (nsar.co.uk)	V2.1 Effective 1 August 2022

LEGISLATION	
Ref. / Title	Reference
Bribery Act 2010	2010 c. 23
Control of Asbestos at Work Regulations 2002	2002 No. 2675
Control of Pollution (Amendment) Act 1989	1989 c. 14
Control of Pollution Act 1974	1974 c. 40
Corporate Manslaughter and Corporate Homicide Act 2007	2007 c. 19
Data Protection Act 2018	2018 c. 12
Environmental Protection Act 1990	1990 c. 43
European Union (Future Relationship) Act 2020	2020 c. 29
Health & Safety at Work etc. Act 1974	1974 c. 37
Modern Slavery Act 2015	2015 c. 30
Pollution Prevention and Control Act 1999	1999 c. 24
The Confined Spaces Regulations 1997	1997 No. 1713
The Construction (Design and Management) Regulations 2015	2015 No. 51
The Control of Asbestos at Work (Amendment) Regulations 1992	1992 No. 3068
The Control of Asbestos at Work (Amendment) Regulations 1998	1998 No. 3235
The Control of Asbestos at Work Regulations 1987	1987 No. 2115
The Control of Asbestos in the Air Regulations 1990	1990 No. 556
The Control of Asbestos Regulations 2006	2006 No. 2739
The Control of Asbestos Regulations 2012	2012 No. 632
The Control of Lead at Work Regulations 1980	1980 No. 1248
The Control of Lead at Work Regulations 1998	1998 No. 543
The Control of Lead at Work Regulations 2002	2002 No. 2676
The Control of Noise at Work Regulations 2005	2005 No. 1643
The Control of Pesticides Regulations 1986	1986 No. 1510
The Control of Substances Hazardous to Health (Amendment) Regulations 2004	2004 No. 3386
The Control of Substances Hazardous to Health Regulations 2002	2002 No. 2677

LEGISLATION	
Ref. / Title	Reference
The Environmental Noise, Site Waste Management Plans and Spreadable Fats etc. (Revocations and Amendments) Regulations 2013	2013 No. 2854
The Fire Precautions (Workplace) Regulations 1997	1997 No. 1840
The Fire Safety (England) Regulations 2022	2022 No. 547
The Fire Safety Act 2021 (Commencement) (England) Regulations 2022	2022 No. 544 (C. 26)
The Hazardous Waste (England and Wales) (Amendment) Regulations 2009	2009 No. 507
The Hazardous Waste (England and Wales) Regulations 2005	2005 No. 894
The Health and Safety (Consultation with Employees) Regulations 1996	1996 No. 1513
The Health and Safety (Display Screen Equipment) Regulations 1992	1992 No. 2792
The Health and Safety (First-Aid) Regulations 1981	1981 No. 917
The Health Protection (Coronavirus, Collection of Contact Details etc and Related Requirements) Regulations 2020	2020 No. 1005
The Health Protection (Coronavirus, International Travel) (England) Regulations 2020	2020 No. 568
The Health Protection (Coronavirus, Restrictions) (All Tiers) (England) Regulations 2020	2020 No. 1374
The Health Protection (Coronavirus, Restrictions) (England) (No. 3) Regulations 2020	2020 No. 750
The Health Protection (Coronavirus, Restrictions) (Local Authority Enforcement Powers and Amendment) (England) Regulations 2020	2020 No. 1375
The Health Protection (Coronavirus, Restrictions) (Self-Isolation) (England) Regulations 2020	2020 No. 1045
The Health Protection (Coronavirus, Wearing of Face Coverings in a Relevant Place) (England) Regulations 2020	2020 No. 791
The Health Protection (Notification) (Amendment) Regulations 2022	2022 No. 616
The Lifting Operations and Lifting Equipment Regulations 1998	1998 No. 2307
The Manual Handling Operations Regulations 1992	1992 No. 2793
The Personal Protective Equipment (EC Directive) Regulations 1992	1992 No. 3139
The Personal Protective Equipment at Work Regulations 1992	1992 No. 2966
The Personal Protective Equipment Regulations 2002 (Revoked)	2002 No. 1144
The Personal Protective Equipment at Work (Amendment) Regulations 2022	2022 No. 8
The Provision and Use of Work Equipment Regulations 1992	1992 No. 2932
The Provision and Use of Work Equipment Regulations 1998	1998 No. 2306
The Railways and Other Guided Transport Systems (Safety) Regulations 2006	2006 No. 599
The Regulatory Reform (Fire Safety) Order 2005	2005 No. 1541
The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013	2013 No. 1471
The Safety Representatives and Safety Committees Regulations 1977	1977 No. 500
The Waste Management (England and Wales) Regulations 2006	2006 No. 937
The Work in Compressed Air Regulations 1996	1996 No. 1656
The Workplace (Health, Safety and Welfare) Regulations 1992	1992 No. 3004
Transport and Works Act 1992	1992 c. 42
Water Resources Act 1991	1991 c. 57
Wildlife and Countryside (Amendment) Act 1991	1991 c. 39
Wildlife and Countryside Act 1981	1981 c. 69

Key

StdNo	Current standard
Stdno	New Standard
StdNo	Live standard pending withdrawal
StdNo	Superseded/Withdrawn

Modular Rulebook GE/RT8000

PTS Only

In most cases only PTS handbook is required, unless one of the following applies:

1. Index, amendment module and Module *G1* to be issued to the following:

Supervisors and managers who issue publications
Staff who operate signal post replacement switches
Staff who place protection for Line Blockage or T3
Staff who secure points
Those who use tents on or near the line

2. Index and amendment module to be issued to the following:

Lookouts
People who take charge of cranes and equipment which could foul an open line
People who take charge of work on or near points
People who carry out patrolling/inspecting duties

Other competencies (IWA, COSS, PC, ES, MC, CC)

Rule Book			
Doc No & Issue	Issue Date	Title	Synopsis
GERT8000 Issue Iss 36	Sep 2023	Rule Book Module Issue History	This document contains updates to align with changes to Rule Book module issues (GERT8000).
GERT8000 Issue HB Iss 17	Sep 2023	Rule Book Handbook Issue History	This document contains updates to align with changes to Rule Book Handbook issues (GERT8000).
GERT8000-RBBL Iss 39	Sep 2023	Rule Book Briefing Leaflet	Each issue of the Rule Book Briefing Leaflet contains a summary of the changes being introduced to GERT8000.
GERT8000-Gloss Iss 7	Sep 2022	Glossary of Railway Terminology	You will need this glossary if you are issued with GERT8000.
GERT8000-AC Iss 7	Dec 2021	AC electrified lines	You will need this module if you carry out the duties of a train driver, guard, shunter, designated person (DP), signaller, crossing keeper or person in charge of sidings in AC electrified areas.
GERT8000-DC Iss 5	Dec 2021	DC electrified lines	You will need this module if you carry out the duties of a train driver, guard, shunter, designated person (DP), signaller, crossing keeper in DC electrified areas.
GERT8000-G1 Iss 9.1	Dec 2022	General safety responsibilities and personal track safety for non-trackworkers	You will need this module if you carry out the duties of: <ul style="list-style-type: none"> • a train driver • a guard • a shunter • a designated person (DP) • a signaller • a crossing keeper • platform staff.
GERT8000-HB1 Iss 7	Sep 2021	General duties and track safety for track workers	This handbook is for those personnel who need to go on the operational railway to carry out their duties, with the exception of a train driver, guard, shunter, signaller, crossing keeper or designated person (DP).
GERT8000-HB2 Iss 2	Sep 2015	Instructions for track workers who use emergency protection equipment	This handbook is for those personnel who need to go on the operational railway to carry out their duties and have been trained to carry out emergency protection. It does not apply to: train drivers, guards, shunters, signallers, crossing keepers and those who act as a designated person (DP). This document has been updated as part of the December 2015 Rule Book Programme.

Rule Book			
Doc No & Issue	Issue Date	Title	Synopsis
GERT8000-HB3 Iss 3	Sep 2014	Duties of the lookout and site warden	This handbook is for those personnel who have duties of the lookout and site warden. Information on changes to this issue can be found in the Rule Book Briefing Leaflet (GERT8000-RBBL Iss 27).
GERT8000-HB4 Iss 2	Sep 2014	Duties of a points operator and route-setting agent - moving and securing points by hand	This handbook is for those personnel who has duties of a points operator and route-setting agent - moving and securing points by hand. Information on changes to this issue can be found in the Rule Book Briefing Leaflet (GERT8000-RBBL Iss 27).
GERT8000-HB5 Iss 2.1	Dec 2022	Handsignalling duties	This handbook is for those personnel who carry out handsignalling duties The Rule Book has been reviewed to remove cases of gender-specific language which can be taken as an assumption that only males are involved. All references to 'pilotman' in handbook 5 have been changed to 'pilot'.
GERT8000-HB6 Iss 7	Sep 2021	General duties of an individual working alone (IWA)	This handbook is for those personnel with general duties of an individual working alone (IWA).
GERT8000-HB7 Iss 8	Sep 2021	General duties of a controller of site safety (COSS)	This handbook is for those personnel who have the general duties of a controller of site safety (COSS).
GERT8000-HB8 Iss 9	Sep 2022	IWA, COSS or PC blocking a line	You will need this handbook if you carry out the duties of a IWA, COSS or PC blocking a line.
GERT8000-HB9 Iss 8	Sep 2022	IWA or COSS setting up safe systems of work within possessions	You will need this handbook if you carry out the duties of an IWA or COSS setting up safe systems of work within possessions.
GERT8000-HB10 Iss 5	Sep 2023	Duties of the COSS and person in charge when using a hand trolley	You will need this handbook if you are the COSS or SWL and person in charge when using a hand trolley.
GERT8000-HB11 Iss 10	Sep 2022	Duties of the person in charge of the possession (PICOP)	You will need this handbook if you carry out the duties of the PICOP.
GERT8000-HB12 Iss 9	Sep 2022	Duties of the engineering supervisor (ES) or safe work leader (SWL) in a possession	You will need this handbook if you carry out the duties of the ES or SWL in a possession.
GERT8000-HB13 Iss 4	Sep 2023	Duties of the person in charge of the siding possession (PICOS)	You will need this handbook if you carry out the duties of a PICOS.
GERT8000-HB14 Iss 3	Mar 2021	Duties of the person in charge of loading and unloading rail vehicles during engineering work	You will need this handbook if you carry out the duties of the person in charge of loading and unloading rail vehicles during engineering work.
GERT8000-HB15 Iss 6	Sep 2022	Duties of the machine controller (MC) and on-track plant operator	You will need this handbook if you carry out the duties of the machine controller (MC) and on-track plant operator.
GERT8000-HB16 Iss 5	Dec 2021	AC electrified lines	This handbook is for those personnel who need to go on the operational railway in an AC electrified area to carry out their duties.
GERT8000-HB17 Iss 4	Dec 2021	DC electrified lines	This handbook is for those personnel who need to go on the operational railway in an DC electrified area to carry out their duties.
GERT8000-HB18 Iss 4	Sep 2015	Duties of a Level Crossing Attendant	You will need this handbook if you carry out the duties of a level crossing attendant. This document has been updated as part of the December 2015 Rule Book Programme.
GERT8000-HB19 Iss 5	Sep 2023	Work on signalling equipment - duties of the signalling technician	You will need this handbook if you carry out the duties of a signalling technician.
GERT8000-OTM Iss 11	Sep 2023	Working of on-track machines (OTM)	You will need this module if you carry out the duties of a driver of an on-track machine, an operator of an on-track machine, or a signaller.
GERT8000-T3 Iss 11.1	Nov 2023	Possession of a running line for engineering work	You will need this module if you carry out the duties of a driver or signaller.
GERT8000-T10 Iss 6	Sep 2022	Duties of a designated person (DP) and people working on rail vehicles	You will need this module if you carry out the duties of a designated person or person working on a rail vehicle.

Network Rail Safety Central – Information Section

Code of Conduct

The Code of Conduct establishes some minimum standards that Network Rail expects in their supply chain. It has been developed by Network Rail's National Supply Chain, Industry bodies, and the Unions. It will be reviewed and updated by members of these same groups bi-annually. Please email queries to codeofconduct@networkrail.co.uk

[Code of Business Ethics](#) (web page)

[Modern Slavery](#) (web page)

Network Rail Safety Bulletins

In this section you'll find copies of the Network Rail safety bulletins regularly sent out to staff working on the Network Rail infrastructure. These cover a range of different safety issues and are often issued in response to a specific incident.

<https://safety.networkrail.co.uk/tools-resources/safety-bulletins/>

You can refine your search by:

Bulletin type

- Archive - Lessons Learnt
- Archive - Safety Bulletins
- Safety Advice
- Safety Alert
- Safety Bulletin
- Shared Learning

There will also be an archive of past bulletins, so you can download any that you missed, or want to read again. **Please download them for the FULL TEXT OF THE BULLETINS.**

Safety Bulletins

- [Safety Bulletin NRB24-06 – Temporary road rail access panels \(RRAP\) left on an open line](#) May 16, 2024
- [Safety Bulletin NRB24-04 – Trackworker near miss](#) April 30, 2024
- [Safety Bulletin NRB24-03 – Runaway incident at Gravelly Hill](#) April 5, 2024
- [Safety Bulletin NRB24-02 – Serious injury at Clapham Junction](#) April 5, 2024
- [Safety Bulletin NRB24-01 – Train Derailment at Walton-on-Thames](#) March 8, 2024

Safety Advice

- [Safety Advice NRA24-07 – Stressing Equipment Failure – Enerpac RP70AE100](#) April 17, 2024

Other documents

- [Safety Alert NRX24-01 – Serious road traffic collision](#) May 13, 2024

Lessons Learnt / Shared Learning

Network Rail are now producing 'Lessons Learnt' publications following events which have led to Formal investigations or local investigations where significant points of learning have resulted. Network Rail believes that these lessons will be of value for all involved in the industry and not just safety professionals, they are ultimately designed to aid prevention of events of a similar nature happening again elsewhere.

[Safety Bulletins | Safety Central \(networkrail.co.uk\)](#)

Click on "Shared Learning" in the Bulletin type menu on right of screen. Type "NRL24" in the search box for this year's.

Health & Wellbeing

[Health and wellbeing](#) (web page)

Risk Management

[Think RISK](#) (web page)

Resource Library

<https://safety.networkrail.co.uk/tools-resources/resource-library/>

The Resource Library holds a wealth of information.

SCO 24:7 (Supply Chain – Operations) Telephone

SCO 24:7 (formally the NSC247 and NDS24:7): call 01908 723500 or 085 65500 (internal)

SCO 24:7 operates 24 hours a day, 365 days of the year from the Quadrant in Milton Keynes. Our remit is to manage the real-time delivery of SCO products & services to our customers. This includes engineering haulage, materials, on track machines, infrastructure monitoring, seasonal treatment, HSEA reporting, site access services and lone worker monitoring.

Emergency

If there's a safety threat to you or to others such as:

- Animals, objects or people on or near the track
- Damage or fault at a level crossing
- A vehicle has hit a bridge
- A broken fence or open gate allowing access to the track

Please call Network Rail Emergency 24-hour helpline immediately: **03457 11 41 41**

To report a crime

Please contact the British Transport Police: **0800 40 50 40**, **999** or **Text 61016**

HSE Fatigue and Risk Index (FRI) Calculator

The Fatigue Risk Index (FRI) has been withdrawn from the HSE website. The reasons for this are:

- The software platform is an older Excel that can no longer be supported on the HSE website.
- The design of the FRI requires improvement to promote better understanding of its outputs, its limitations and its role in a Fatigue Management System.
- In its current format, there have been case of the FRI being issued in order to justify work patterns that clearly require further action to reduce fatigue-related risk.
- FRI users who have access to the FRI in its current format can continue to use it, provided you have the necessary expertise to use the tool and understand the outputs and limitations.

Following feedback, we are making the tool available, as well as how to documents, to aid with calculations.

[HSE Fatigue and Risk Index \(FRI\) Calculator](#)

Useful Links

The following pages contain other useful links and safety information from various sources which may be relevant to you.

Item	Details
Health and Safety Executive http://www.hse.gov.uk – Website	Government agency responsible for regulating risks to health and safety arising from work. HSE publications can be downloaded free in Adobe PDF format.
CIRAS Online http://www.ciras.org.uk – free access	The Confidential Incident Reporting and Analysis System Freephone number 0800 4 101 101.
Network Rail http://www.networkrail.co.uk – Website	Owner and operator of Britain's railway infrastructure.
Network Rail Standards If you have any queries re the registration form or the Network Rail Standards portal, please email: STSupplierSupport@networkrail.co.uk Network Rail Technical Drawings National Records Group Email: nrgcivils@networkrail.co.uk	from 31 August 2023, free access to Network Rail's extensive catalogue of standards and controls documentation will be via a new (interim) website. This new site will be called the Network Rail Standards Portal. If you have not already done so, please register for access to the Network Rail Standards Portal by completing this registration form as soon as you can, so that your new log in account can be set up.
Network Rail Safety Central http://safety.networkrail.co.uk – free access	The site is your one-stop shop of safety information, advice, resources and useful contacts, designed to promote consistency and best practice across the whole rail industry. The information is divided under the following sections: <ul style="list-style-type: none"> • Alerts & Campaign Material • Communication & Health • Commitment & Rules • Safety Groups • On Site Solutions • Toolbox
RSSB Close Call System www.closecallsystem.co.uk – Register for access	At the request of Network Rail and its contractors, RSSB has developed a new internet-based system that will allow the industry to centrally record and analyse 'Close Call incidents'. This is known as the Close Call System.
Rail Safety and Standards Board http://www.rssb.co.uk – Register for access to certain documents	RSSB builds industry-wide consensus and facilitates the resolution of difficult cross-industry issues. They provide knowledge, analysis, a substantial level of technical expertise, powerful information and risk management tools.
Rail Sentinel https://www.railsentinel.co.uk/ – registered companies only	Sentinel Scheme Rules The latest copy of the scheme rules can be found here: Sentinel Scheme Rules
Office of Rail and Road http://orr.gov.uk/ – free access	Independent safety and economic regulator for Britain's railways, and monitor of performance and efficiency for England's Strategic Road Network.
Rail Accident Investigation Branch http://www.raib.gov.uk/ – free access	Independent railway accident investigation organisation for the UK. It investigates railway accidents and incidents on the UK's railways to improve safety, not to establish blame.

Item	Details
<p>Railway Group Standards https://www.rssb.co.uk/standards-catalogue – free access with registration</p> <p>Rail Safety & Standards Board Enquiry Desk Phone: 020 3142 5400 Website www.rssb.co.uk</p>	<p>Purchasing Railway Group Standards A copy of the order form can be found in the forms section of the RGS Catalogue or from the RGSONLINE website stated above. You will need the following details in order to complete the form:</p> <ul style="list-style-type: none"> • Railway Group Standards code and title • Quantity • Price • Purchaser's full name, business, address and telephone number • Credit card details, cheque or purchase order number <p>Then fax or post it to Willsons Printers Limited at the address below.</p> <p>Please ensure that you include your credit card details, purchase order or a cheque made payable to Willsons Printers. Payments can also be made by BACS - please contact Willsons for company bank details. Orders received will be dispatched within five working days.</p> <p>Purchasing National Operations Publications National Operations Publications are Railway Group Standards which set out mandatory requirements for direct application in the workplace. These include:</p> <ul style="list-style-type: none"> • Modular Rule Book (GERT8000) • Working Manual for Rail Staff: Handling and Carriage of Dangerous Goods (GORM3053) • Working Manual for Rail Staff: Freight Train Operators (GORM3056) • Rule Book Forms <p>Details of these documents can be found in the sections 'Document Titles and Descriptions' for Traffic Operation and Management.</p> <p>As these documents are subject to frequent change, amendments which do not justify the reissue of the module or section of the working manual are published in GERT8001, Changes to National Operations Publications.</p> <p>Willsons Printers Limited supplies the modules and handbooks which make up the Modular Rule Book, Working Manual and Rule Book forms. You can order these documents by contacting Denise Atkinson at Willsons Printers Limited at the address below:</p> <p>Willsons Printers Limited Highlander House Cross Street, Newark Nottinghamshire, NG24 1PP Tel: 01636702334 Fax: 01636701396 http://www.willsonshop.com</p>
<p>M&EE Networking Group Codes of Practice https://www.rssb.co.uk/standards-catalogue#stakeholder-publications</p> <p>Refine results by selecting Lead Committee</p>	<p>The M&EE Networking Group is a non profit making group dedicated to the sharing of professional engineering and railway operations information and to provide a focus to the rail industry relating to operational and technical safety of plant. The group is a meeting of the professional heads of mechanical and electrical engineering and operations from infrastructure contractors, Network Rail, RSSB, the Rail Plant Association, London Underground and elected representatives from other infrastructure renewal companies, plant owners, and manufacturers/suppliers of plant and technical services.</p> <p>The M&EE Networking Group produces Codes of Practice and other documents as good practice for all members of the industry.</p>

Other Bulletins

Track Safety Alliance

A few videos of interest at the Track Safety Alliance website:

<http://www.tracksafetyalliance.co.uk/videos/65/>

Southern Shield

Everyone Home Safe Every Day

Southern Shield is a collaborative safety forum that consists of Network Rail Infrastructure Projects Southern Region and its principal contractors. There are many more useful links on their website

<https://www.southernshield.co.uk/>

- Best Practice <https://www.southernshield.co.uk/best-practice/90/>
- Safety Messages <https://www.southernshield.co.uk/safety-messages/4/>
- Health & Wellbeing <https://www.southernshield.co.uk/health-and-wellbeing/82/>
- Library <https://www.southernshield.co.uk/library/3/>

Electrical Safety Step Up

[Electrical Safety Step Up - Safety Central \(networkrail.co.uk\)](#)

- [Electrical Safety Step Up Promotional Material](#) ZIP / 26 Jan 2023
 - [Conductor Rail Equipment Scenario Film](#) MP4 / 16 Jan 2023
 - [Facilitation Guides](#) ZIP / 12 Jan 2023
 - [Our Call to Action Closing Film](#) MP4 / 4 Jan 2023
 - [OLE Scenario Film](#) MP4 / 4 Jan 2023
 - [Your Commitment to Working Safe](#) MP4 / 4 Jan 2023
 - [Andrew Haines Welcome](#) MP4 / 4 Jan 2023
 - [Electrical Safety Step Up Slide Deck – OLE No Films](#) PPTX / 4 Jan 2023
 - [Electrical Safety Step Up Slide Deck – Conductor Rail Equipment No Films](#) PPTX / 4 Jan 2023
-
- [Bryant's story](#) MP4 / 4 Jan 2023



Drugs and Alcohol standard (supplier page)

[Drugs and Alcohol standard \(supplier page\) - Safety Central \(networkrail.co.uk\)](#)

What's changing?

Our supply chain colleagues are expected to test 20% of their safety critical staff so please make sure you are familiar with the changes, and never attend work under the influence of drugs or alcohol.

- [Drugs and Alcohol standard – Line Manager Briefing Pack – Supply Chain](#) PPTX / 13 Oct 2022
- [Drugs and Alcohol standard – Change on a page \(Supply Chain\)](#) PDF / 13 Oct 2022

Miscellaneous

Safety Bulletin

A serious incident has taken place



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Colleague eye injury

Issued to: Scotland's Railway Colleagues and Principal Contractors
Ref: SRB 24-10L
Date of issue: 22.05.2024
Location: Stirling Depot
Contact: [Dale Anderson](#), Route Workforce Health, Safety and Environment Advisor



Overview

On Thursday 25th April, a colleague suffered a painful scratch to their eye, resulting in them having to attend hospital and receive medical treatment.

The colleague had entered a storage container looking for a chain to secure a rail trolley. The chain was located on a shelving unit at eye level. When they removed the chain, a coiled strimmer wire, which was hidden behind it, sprung out and struck the colleague's eye injuring them.

The colleague attended a nearby hospital where dye was used to establish the damage caused to their eye.

Luckily, the colleague only scratched the outer layer of their eye but still required medication for the pain and discomfort.

Discussion Points

Always wear Personal Protective Equipment (PPE) including eye protection and gloves when handling or moving any equipment and materials.

Always ensure items that may be under tension are secured prior to storing or transporting.

Always ensure signs are displayed to remind staff that PPE must be worn in storage areas.

Do you and your team conduct regular checks of storage areas for housekeeping?

Do you have materials or equipment that could be removed, recycled or repositioned to make it safer?

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Scrap rail overturned onto employees' foot

Issued to: Scotland's Railway colleagues and Principal Contractors.

Ref: SRB-25-09L

Date of issue: 22.05.2024

Location: Strothord, Perthshire

Contact: [Dole Anderson](#), Route Workforce Health, Safety and Environment Advisor



Overview

Following a rail replacement, 2 x 60-foot scrap rails with anchors attached were transported to Strothord Road Rail Access Point (RRAP) using Ironmen, where the rails were unloaded onto ballast. Our colleague was speaking to a member of their team when one of the rails overturned and struck their foot above the steel toe cap.

After attending hospital it was confirmed that they had suffered a fracture to a bone in their foot.

Discussion Points

Are you aware of your feet placement when working on site?

Always be mindful of your body position during tasks and assess any dangers nearby.

Could items be prone to rolling or falling?

Where possible store items on flat terrain to reduce risk of movement.

Are you carrying out the task in accordance with the relevant Task Risk control sheet?

Never carry out tasks without understanding the hazards.

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AWARENESS BRIEFING TO SUPPLIERS West London Line Intersection – Decking failure



On 11th March 2024 the timber decking on West London Line Intersection (BML1 2/14) failed under the weight of a TOC operative. The injured party fell about 5m onto the cess of the lines below, sustaining serious broken bones.

Details of failure

The timber decking failed because it had decayed.

At the latest Detailed Examination, in 2019, the decking was examined and reported to be in fair condition. The Visual Examinations since the latest Detailed Examination made no clear mention of whether the timber had been probed at the examination or were yet to be written up and submitted to Network Rail. Therefore, when the failure occurred the most recent record in CARRS of the condition of the timber was five years old.



Decking Failure to West London Line Extension (BML1 2/14)



View to high mileage, RDG1 lines to the right

In addition, at the last assessment under the CAFA contract in 2019 the CAFA supplier did not inspect the timber deck or undertake assessment calculations to determine its capacity. These elements appear to have been missed as the BML1 and RDG1 decks were covered by separate inspection shifts/teams.

Learning Points

The accident serves as a sobering reminder of the importance of effective asset management of timber decking.

The circumstances surrounding the accident are subject to various ongoing investigations and reviews. A comprehensive list of Learning Points will not be available until these investigations and reviews are complete.

Pending further findings or information, CAFA suppliers should focus on ensuring that at every IFA (Inspection for Assessment) timber elements are inspected and probed.

CAFA suppliers should also ensure that when structures are inspected by separate inspection shifts/teams all elements are captured including elements between decks.

Where timbers carry loading these elements must be quantitatively assessed in accordance with the relevant assessment codes/standards.

Action

To make sure that timber elements are inspected and probed for decay at IFAs. To report clearly in the inspection findings the condition of the probing.

To make sure that timber elements carrying load are assessed.

Learning from Industry Incidents: Mobile Compressor Injury



Incident Overview

A team were packing away at the end of a job. A member of the team lifted the canopy of the compressor to put away the air hose. As they leaned in, the canopy came down with force and fell onto their forearm, leading to a fracture of the lower arm / wrist.

A new hinge had recently been fitted to the canopy / hood as part of planned repair work. Both rams (mechanical stays) were disconnected when the repair was undertaken. The compressor was brought back into service 4 days before the incident. Upon inspection post event, it was confirmed that a retaining clip was missing from the Ram.



Learning Points

Actions to Prevent Recurrence

- If you are responsible for any mobile compressors, please carry out checks to ensure that the rams are fixed in place and all retaining clips in place. Any found to be defective must be immediately quarantined until appropriate repairs can be carried out.
- Consider any other plant / equipment that may have similar fixings and carry out the checks on these.
- Consideration should be given to the installation of mechanical stays to support the canopy in future, i.e. if a ram fails.
- Remember to always carry out thorough pre-use checks on any plant or equipment you are using and record these checks.



Train and RRV collision at Bealing's RRAP

- A propelling engineering train has come in contact with the rear bogies of an RRV at low speed (less than 5mph). Supervisor undertook an emergency stop of the train, but the train still made contact with the RRV.
- Whilst the RRV was in the process of on tracking at the RRAP on to the Up ESK, the engineering train was undertaking a propelling move when the two items made contact at the RRAP at approximately 1630 Sun. The RRV was in road mode straddling the Up 4 foot and 6 foot during the contact.
- Although rear of the train was in full sight the wider site including the full RRAP and RRV yard was obscured due to the poor position the Supervisor took adjacent parked RRV's.

Project team recommended - when initiating train movements on site, ensure visibility is not obstructed by any adjacent plant or structures.

Take 5

This can be as simple as pausing for five seconds to think about what you're about to do and ask yourself if you're aware of the risks, have the right control measures in place and make sure you're safe to proceed. Taking 5 really can be the difference between you and your colleagues getting home safe every day.

All concerned!

- Take 5 prior to work and assess the site for any uncontrolled hazards.
- Resist the over eagerness to progress onto the next activity.
- Ensure all work parties are aware of the planned move.
- Do not undertake works until it's safe to do so.

Managers / Supervisors:

- Ensure the person in charge of train movements are competent.
- Ensure trains, OTMs and OTPs are stabled a minimum of two loco's lengths away from any RRAP, LC for FC.
- Ensure crane controllers have signed out a radio and are aware of the planned train movements. Utilise the radio / dect comm connection for communication.



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Train Struck Worksite Marker Board

Issued to: Scotland's Railway colleagues & Principal Contractors

Ref: SRB 24-06L

Date of issue: 09/04/2024

Location: Cardross NEM6

Contact: [Chris Lyall, Health & Safety Manager](#)



Overview

A train struck a worksite marker board (WSMB) whilst travelling at 60mph. There had been a possession overrun on site, but the limits had been shortened to allow trains to run on part of the line.

The overrun was due to an earlier incident where a road rail vehicle (RRV) vector unit had damaged the overhead line equipment (OLE) whilst moving on site.

In order to repair the OLE but keep trains running, the possession limits were shortened. During this change there were two WSMBs left on the track on a part that was now operational.

This resulted in one being struck by a train and the other one had to be removed under a line block.

Discussion Points

How is change or unexpected events dealt with and recorded on your sites?

Always 'take 5' and assess when the plan changes or something unexpected happens.

How do you check and confirm the line is clear after work? Who is responsible?

Never assume the line is clear, check and confirm with colleagues.

How are RRV movements managed safely on your sites? Who is responsible?

Always check it is safe to move or operate RRVs and maintain clear communication.

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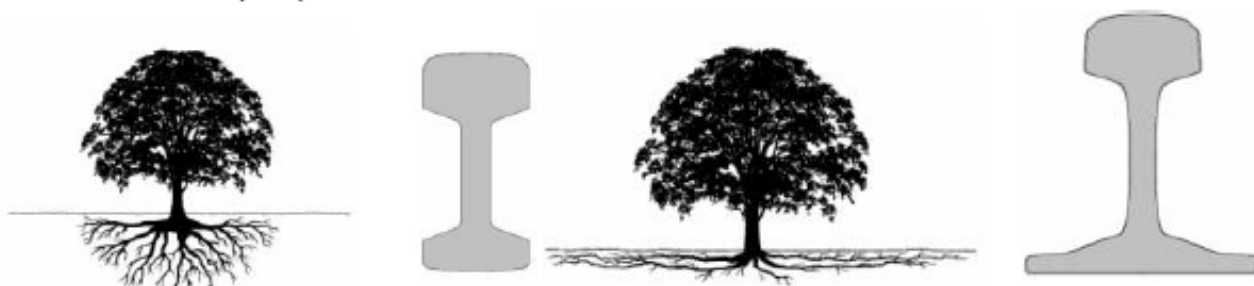
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Tree Root Protection Areas



What is a Tree Root Protection Area?

A Tree Root Protection Area is the minimum area around the tree that would support the tree rooting system to grow successfully. It is a calculated area of ground that lies immediately under a tree. On average 90 % of a tree's roots occur in the upper metre of soil and can extend in width up to 3 times the height of the tree. However, this does differ between different tree species which is why it is necessary to consult an arborist if working near mature trees or those with a Tree Protection Order (TPO).



Do's

- ✓ Avoid accidental damage to trees and their roots by setting up a tree root protection zone. Guidance on this is set out in the **British Standard BS 5837:2012**.
- ✓ Obtain specialist advice as soon as possible and establish good lines of communication with the project environmental manager.
- ✓ Adhere to tree root protection areas at all times.
- ✓ Ensure all staff are aware of the necessary protection measures.
- ✓ Seek advice and stop works if you are unsure.
- ✓ Check with project specification documentation controls before felling or cutting any trees to ensure permission has been obtained. Only clear vegetation as instructed.
- ✓ Ensure plant and machinery are kept out of excluded areas.
- ✓ Store all fuel and other potential pollutants away from root systems.
- ✓ Hand dig only around root systems.

Don'ts

- ✗ DO NOT store plant or equipment in a Tree Root Protection Area. This can cause compression of soil around the tree damaging roots and could cause accidental damage to the tree trunk or branches. Adhere to Tree Root Protection Areas at all times
- ✗ DO NOT cut roots over 25mm in diameter. As a general rule, don't cut a root thicker than your thumb.
- ✗ DO NOT store spoil or building material including chemicals and fuels in a Tree Root Protection Area.
- ✗ DO NOT undertake tree felling or hedgerow clearance during nesting bird season.
- ✗ DO NOT excavate with machinery.
- ✗ When hand digging work carefully around the roots, retaining as many as possible.
- ✗ DO NOT begin works to trees without consulting with the relevant Local Authority as to whether the tree has a TPO or other protection.

Acid Etchings : Personal Safety



There has been a recent surge in graffiti attacks on London Underground trains using Hydrofluoric Acid. Vandals are using this substance as it burns into surfaces, making it difficult and dangerous to remove. Bingo dabbers have historically been used to apply this acid onto the surfaces, however other containers may also be used.

The substances used to carry out etchings have been shown to contain Hydrofluoric Acid and other substances dangerous to human health, this is then transferred into the unmarked containers, Bingo Dabbers or large markers wrapped in masking tape.

Example of Bingo Dabbers



You may encounter this type of etching on steel doors, railway maintenance trains, company vehicles, etc, this does not just happen on underground trains.

These substances are extremely corrosive, serious injuries will result if it comes into contact with skin.

Hydrofluoric Acid will continue to burn into skin even if people believe they have washed it off.



Examples of the damage that can occur to the skin when in contact with Hydrofluoric Acid

Central Line



Etchings of the Central Line using this type of substance

Fatigue : A Personal Reflection

Octavia Midgley, Head of Safety and Sustainability



Personal reflection:

On returning from maternity leave I have been visiting sites across Capital Delivery Eastern (CDE) to engage with our teams and see the amazing work we are delivering across our region. When planning in a recent visit to Duffield in East Midlands I decided to drive from York. My decision was based on the amount of time it would take me to drive versus taking the train. The train connections meant that it would take me significantly longer to travel if I had done so by train rather than drive.

However, I am a parent with two small children, and as any parent with small children will know, you cannot count on a good night's sleep on any given night. So, reflecting on this over the weekend, I decided that even though it would take me longer to travel by train than to drive, because of my personal circumstances it would be the safer option.

I share my story, as it may help you to consider and reflect on your work / life management and how taking personal responsibility can help keep you and others safe.



Key learnings:

- The easier/quicker option is not always the safer option.
- When thinking of fatigue, personal circumstances must be considered, not just shift patterns. How do you consider fatigue?
- We all have a personal responsibility for managing our fatigue levels, but if you are struggling, please speak up and tell your line manager or shift manager.
- Sometimes there is no option other than to drive to your destination but please always take a moment to consider if you could use other transport modes to get there.
- If driving, plan your journey. Make sure you build in rest before and during your journey. The Highway Code recommends that drivers should take a 15-minute break every two hours.



Click or scan for
the Highway Code

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Safety Advice



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Hy-drive points-Haywards Heath points run through-
Immediate lessons learnt

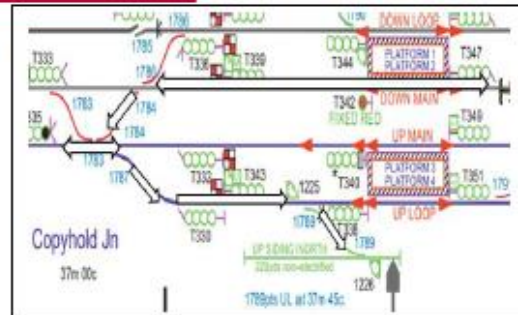
Issued to: Southern Region

Ref: WD29FEB24PRT

Date of issue: 29/02/2024

Contact: Chloe Feekings HSEA WD Kent & Sussex

Overview



On 25th February Works Delivery Track Sussex were undertaking scrap clearance at Haywards Heath. An RRV Movement was required to move through 1786pts, as per the above diagram. The red-light process was in place and machine/points movement sheets completed.

During movement of the RRV through 1786 pts, Hy-Drive model, there was a subsequent loss of detection due to the points being traversed through with the points not fully in position.

A dedicated ES and Points Operator were present at the time of the manual points operation and had operated 1786 points from Reverse to Normal, as required for the movement, but had failed to fully pump them over to the correct position. The RRV subsequently traversed the points causing damage to one of the BOD's (break out devices) which connect the unit to each switch rail resulting in the loss of detection. The team on site were not familiar with the operation of Hy-Drive points.

As part of this investigation there have been some important learning points identified for when operating Hy-Drive points vs conventional clamp lock points which have been included in this Advice for onwads cascade.

Figure 1 Hy-drive points example

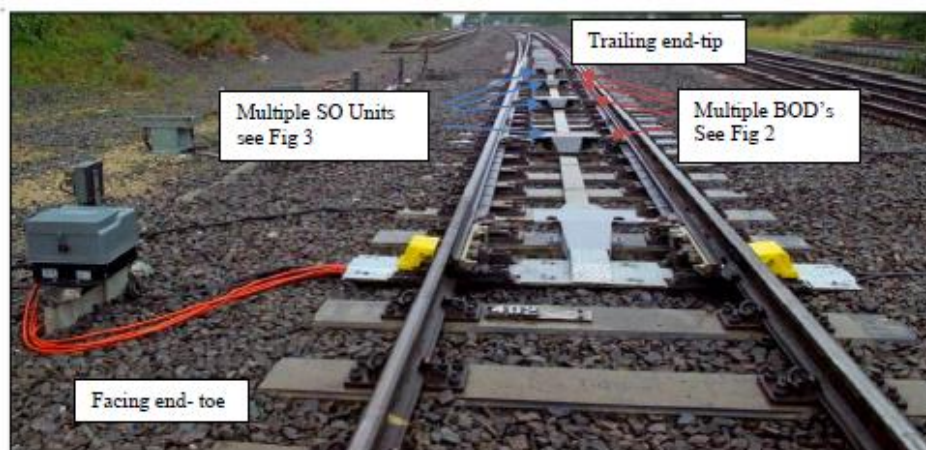


Figure 2 Break out devices (BOD's)



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The point drive system (Figure 1) is made up of one or more SO units to be used in conjunction with an In-Bearer Clamp Lock (IBCL) and a Hi-Flow power pack. The number of SO units depends on the switch length. The three sub-systems together fitted to a point layout is also known as "Hy-Drive".

Figure 3 - SO Units



The SO (Sistema Oleodinamico) unit performs the driving, holding, and detecting functions of the points and includes two "Break-out Devices" (BoDs) – switch rail.

When the BoD has operated (e.g. because of a run-through), it is designed to lock in the operated position (either in or out, depending on the direction in which the switch rail has been forced). This means detection will fail on the next operation and cannot be obtained until it has been replaced.

Immediate lesson learnt:

Hy-Drives are not common in the Southern Region, only 0.3 % of points on the Region are Hy-Drives (13 out of 4202). 11 of those 13 are on Sussex Route.

There are some key differences when operating Hy-Drive's in manual Versus conventional Clamp Locks, for example:

- Hy-Drive's take c.70 movements of the handle pump over fully vs usual c.10 movements.
 - Hy-Drive's have multiple detection points throughout the length (up to 5) vs the usual 1 or 2.
 - Hy-Drive's can be double the length of a conventional switch (1786 pts were c.40 meters)
 - Hy-Drives have very low tolerance to points positioning being out of compliance.
- Hy-Drive's differ from regular points in the respect that the switch rail must be fully closed from the tips to rear SO unit with no residual opening, due to the rigidity of the design. Any residual opening will be forced over by any OTP/Trains and shear (Operate) the BOD's and protect the Hy-Drive equipment from damage.

As with all points the full length of the points should be walked prior to authorising movements. With Hy-Drive's all detection points should be checked along the full length of the points prior to movement.

Unique/uncommon assets

During Delap/scoping walks any unique or uncommon equipment should be highlighted for further planning prior to works commencing. This should be included as a project risk at the planning stages and further guidance/information sought via company standards, industry experts and cross discipline discussions. Where teams identify uncommon assets on site, this should be highlighted and passed onto site management or on-call for further information/guidance to be sought.

Impact of Points run through on Southern Region in CP6

Throughout CP6 the Southern Region has experienced circa 60 Points run throughs, averaging one per period. These have collectively caused significant delays and disruption for our customers, resulting in approximately 700 full or partly cancelled services and approximately 28,000 delay minutes. Already in Southern Region there have been 4 points run throughs this calendar year, 2024.

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Other Safety Information



Safety 3-4-3 and Fleet 3-4-3

Safety 3-4-3 and Fleet 3-4-3 will be published and distributed at a later date.