

# **Network Rail**

# **Standards and Controls**

## ***Awareness Briefing***

*Issue: 107 – March 2018*

# Introduction

The purpose of this pack is to assist with Awareness Briefing of Network Rail standards and controls changes published in March 2018

- *Detailed technical briefings to those who have a role or responsibility for applying the standard are planned and delivered by the Working Group that developed the standard.*
- *Where a person/manager identifies the need to receive a technical brief which has not been planned, this can be requested through the person identified as the Working Group Chair on the front cover of the standard.*
- *Where standards are of a particular interest to a team/person, they may seek further information by referring to the standard or its briefing note at the back of the standard.*

Line Managers may customise this pack by entering their [Function] at the top of each slide and by adding or deleting relevant slides from the pack.

**NOTE:** *This pack does not contain any Railway Group Standards changes; these are communicated through a separate report issued from the RSSB. More detailed information on Railway Group Standards can be obtained by visiting the RSSB website at [www.rssb.co.uk](http://www.rssb.co.uk). All user enquiries should be directed to the Rail Safety & Standards Board Enquiry Desk on 020 3142 5400.*

## **Briefing Requirement Notes:**

- *Technical briefings are given to those who have specific responsibilities within standards/control documents.*
- *Awareness briefings are given to those who might be affected by the content but have no specific responsibilities within the standard/control document.*
- *Details of the briefing arrangements are included in the associated briefing programme.*
- *The attached Standards Briefing Cascade map provides details of the process and posts that are responsible for delivery of briefings throughout the organisation.*
- ***If you have any queries regarding this report please contact [standardsmanagement@networkrail.co.uk](mailto:standardsmanagement@networkrail.co.uk)***

# Briefing Management System (BMS)

The Briefing Management System is the new tool that can be used as an alternative to the normal cascade briefing process to create, distribute and monitor completion of important Network Rail Standards and Controls change briefings.

The system is being made available to all NR teams and has been sponsored by the Safety, Technical and Engineering team.

The system provides a centralised source of information for Standards and Controls change briefings and assists with compliance and consistency.

## What does this mean for me?

This is a single, user-friendly system, where you can view Standards and Controls briefing material that are applicable to your role.

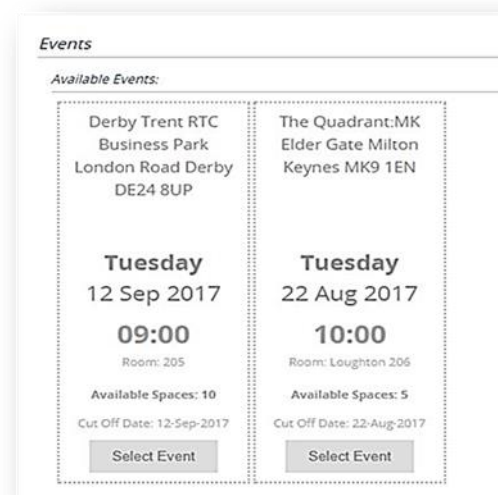
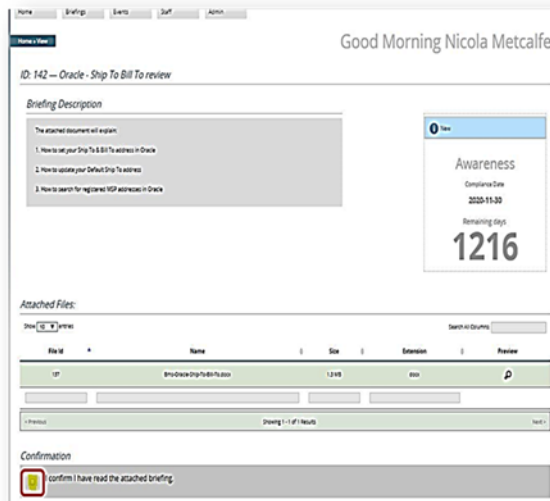
When you are identified to receive a briefing, you will receive an email notification with a link to the information.

You must open the link to the briefing to view, download and save the information. You will not need a username and password to access the briefing information.

## What can I expect to see?

**Awareness Briefing** – you will receive an email from the relevant Standard Owner/function. Click on the link and a new web browser will open showing the briefing information.

**Technical Briefing** - you will receive an email from the relevant Standard Owner/function. Click on the link and a new web browser will open inviting you to a briefing.



# Changes to Network Rail standards – March 2018

The key changes since Issue 106 of the Catalogue of Network Rail Standards are as follows:

- A total of **42** standards are to be published
  - 3 : Buildings and Civils Engineering
  - 1 : Company Standards and Controls Group
  - 5 : Electrical Power
  - 5 : Investment Projects
  - 4 : Maintenance
  - 2 : Operations
  - 1 : Quality, Health, Safety and Environment
  - 9 : Signal Engineering
  - 1 : Signal Engineering and Electrical Power
  - 2 : Supply Chain Operations
  - 2 : Telecoms
  - 7 : Track
  - **14** new standards (including Guidance Notes)
  - **28** standards have stepped up an issue
  - **8** standards have been withdrawn
- 
- A total of **4** Emergency Changes have been published
  - **6** Emergency Changes have been withdrawn as a result of a standards change

# Report Contents

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<b>NOTE:</b> <i>Hyperlinks will only work when this pack is in 'presentation' mode.</i>	

## Standards Change Overview

Document Reference	Title	Issue	BMS	Page
NR/L2/CIV/086	Management of earthworks	7		<a href="#">13</a>
NR/L3/CIV/023	Assessment of footbridges	1		<a href="#">14</a>
NR/L3/CIV/024	Assessment of operational property structures	1		<a href="#">15</a>
NR/L2/CSG/STP001	Standards and Controls management manual	7		<a href="#">16</a>
NR/L2/ELP/27715	Overhead contact system design specification	2		<a href="#">17</a>
NR/L2/ELP/27730	Specification for 750 V dc switchgear	2		<a href="#">18</a>
NR/L3/ELP/27237	Overhead Line Work Instructions	15		<a href="#">19</a>
NR/L3/ELP/27250	Conductor rail equipment working instructions	3		<a href="#">20</a>
NR/L3/ELP/27424	750V DC conductor rail equipment design manual	1		<a href="#">21</a>
NR/L2/ENV/115	Environment and social management system requirements	1	Y	<a href="#">22</a>
NR/L3/ENV/305	How to change utility supplies	2		<a href="#">23</a>
NR/L3/INI/P3M/130	Controls manual	1		<a href="#">24</a>
NR/L3/INI/P3M/131	Document management manual	1		<a href="#">25</a>
NR/L3/INI/P3M/132	Portfolio integration manual	1		<a href="#">26</a>
NR/GN/INI/P3M/150	Sponsor's handbook	1		<a href="#">27</a>
NR/L2/MTC/PL0175	Infrastructure Maintenance planning handbook	6		<a href="#">28</a>
NR/L3/MTC/MG0173	Monitoring of spoken safety communications	2		<a href="#">29</a>
NR/L3/MTC/MG0213	Index of standard maintenance forms	9		<a href="#">30</a>
NR/L3/MTC/RCS0216	Risk control manual	11		<a href="#">31</a>
NR/L2/OPS/290	Business continuity management	1		<a href="#">32</a>
NR/L3/OPS/045	National operating procedures index	3		<a href="#">33</a>
NR/L2/OTK/5100	Boundary management manual	1	Y	<a href="#">34</a>
NR/L2/OTK/5201	Lineside vegetation management manual	1	Y	<a href="#">35</a>
NR/GN/RMVP/27702	Plant product acceptance process	2		<a href="#">36</a>
NR/L1/RSK/001	Network Rail risk policy	2	Y	<a href="#">37</a>
NR/L3/SCO/313	On-Track Machines (OTMs) Driver and Operations Standards manual	2		<a href="#">38</a>
NR/L3/SIGELP/50003	Safe working practices when working on or near signalling equipment	1		<a href="#">39</a>
NR/L2/SIG/11711	Digital Railway ready signalling	2		<a href="#">40</a>

## Standards Change Overview (cont.)

Document Reference	Title	Issue	BMS	Page
NR/L2/SIG/30009	Signalling principles handbook	13		<a href="#">41</a>
NR/L2/SIG/30014	Signalling Works Testing Handbook	13		<a href="#">42</a>
NR/L3/SIG/10064	General instructions to staff working on S&T equipment	6		<a href="#">43</a>
NR/L3/SIG/10661	Signalling maintenance task intervals	16		<a href="#">44</a>
NR/L3/SIG/10663	Signal maintenance specifications (SMS)	8		<a href="#">45</a>
NR/L3/SIG/10665	Reliability centred maintenance of signalling equipment	15		<a href="#">46</a>
NR/L3/SIG/11231	Signalling maintenance testing handbook (SMTH)	11		<a href="#">47</a>
NR/L3/SIG/11767	Handbook for EBI Track 400 audio frequency track circuit	1		<a href="#">48</a>
NR/L2/TEL/31001	Telecom maintenance testing & fault investigation	4		<a href="#">49</a>
NR/L3/TEL/30076	Telecom maintenance testing & fault investigation process	3		<a href="#">50</a>
NR/L2/TRK/0032	Joining of rails by aluminothermic welding	7		<a href="#">51</a>
NR/L2/TRK/1019	Lighting requirements for visual track inspection	1		<a href="#">52</a>
NR/L3/TRK/003	Index of track engineering forms	26		<a href="#">53</a>
NR/L3/TRK/3406	Installation of modular S&C	2		<a href="#">54</a>

## Forms

Document Reference	Title	Issue
NR/CIV/SD/F003/ADDM/320	Form 003 Addendum: SDC Stafford Recommendation 2 Action Plan and DRA	B
NR/CIV/SD/F003/ADDM/610	Form 003 Addendum: SDC Stafford Recommendation 2 Action Plan and DRA	B
NR/L3/CIV/151/F10	Index of Standard Designs and Details for Building and Civil Engineering Works	11
NR/L3/ENV/305/F001/ELECTRICITY	Utility New Connection Request (Electricity – UH)	3
NR/L3/ENV/305/F001/GAS	Utility New Connection Request (Gas)	4
NR/L3/ENV/305/F001/WATER	Utility New Connection Request	4
NR/L3/ENV/305/F002/ELECTRICITY	Utility Connection Upgrade (Electricity)	3
NR/L3/ENV/305/F002/GAS	Utility Connection Upgrade (Gas)	3
NR/L3/ENV/305/F002/WATER	Utility Connection Upgrade (Water)	3
NR/L3/ENV/305/F003	Utility Change Request	3
NR/L3/ENV/305/F004/ELECTRICITY	Utility Disconnection Request (Electricity)	3
NR/L3/ENV/305/F004/GAS	Utility Disconnection Request (Gas)	3
NR/L3/ENV/305/F004/WATER	Utility Disconnection Request (Water)	3
NR/L3/ENV/305/F005	Utility Project Handover	3
NR/L3/ENV/305/F006	Utility Contact List	3
NR/L3/TRK/003/TEF3216	Layout Quality Assurance - Switch & Crossing Layout Inspection	2
NR/L3/TRK/003/TEF3228	Introduction of PLPR inspection	7
NR/L3/TRK/003/TEF3238	Notification of proposed PLPR inspection sites	7



## Forms (cont.)

Document Reference	Title	Issue
NR/L3/TRK/003/TEF3269	Supervisory Inspection of Lineside Vegetation Report	1
NR/L3/TRK/003/TEF3270	Cab Ride of Lineside Vegetation Report	1
NR/L3/TRK/003/TEF3271	Supervisory Inspection of Boundary Measures Report	1
SMF/MG/443	Management self-assurance question sets	9
SMF/MG/467	Spoken Communications Monitoring Form	1

## Withdrawn Documents

Withdrawn Document	Title	Issue	Replacement Document(s)
NR/BS/LI/057	Train Based Grinding Specification for Plain Line Grinding	1	Withdrawn
NR/BS/LI/058	Train Based Grinding Specification for Switches and Crossing Grinding	1	Withdrawn
NR/GN/ELP/27088	Layout of Overhead Line Equipment (formerly RT/E/WI/27088)	2	Withdrawn. NR/L2/ELP/27715 ISSUE 2
NR/L1/TRK/05200	Vegetation	2	Withdrawn. Replaced by NR/L2/OTK/5201 ISSUE 1
NR/L2/SIG/30014/D120/TS9-02	Local Control Panel	1	Withdrawn. Incorporated into NR/L2/SIG/30014/D120/TS09-01
NR/L2/TRK/5100	Management of Fencing and Other Boundary Measures (Formerly NR/SP/TRK/05100)	2	Withdrawn. Replaced by NR/L2/OTK/5100 ISSUE 1
NR/L2/TRK/5201	Management of lineside vegetation	4	Withdrawn. Replaced by NR/L2/OTK/5201 ISSUE 1
NR/L3/CPR/305	How to change utility supplies	1	Reference change to NR/L3/ENV/305
NR/L3/CPR/305/F001	Utility New Connection Request	2	Withdrawn by NR/L3/ENV/305 ISSUE 2
NR/L3/CPR/305/F001/ELECTRICITY	Utility New Connection Request (Electricity – UH)	2	Reference change to NR/L3/ENV/305F001/ELECTRICITY
NR/L3/CPR/305/F001/GAS	Utility New Connection Request (Gas)	3	Reference change to NR/L3/ENV/305/F001/GAS
NR/L3/CPR/305/F001/WATER	Utility New Connection Request	3	Reference change to NR/L3/ENV/305/F001/WATER
NR/L3/CPR/305/F002/ELECTRICITY	Utility Connection Upgrade (Electricity)	2	Reference change to NR/L3/ENV/305/F002/ELECTRICITY
NR/L3/CPR/305/F002/GAS	Utility Connection Upgrade (Gas)	2	Reference change to NR/L3/ENV/305/F002/GAS
NR/L3/CPR/305/F002/WATER	Utility Connection Upgrade (Water)	2	Reference change to NR/L3/ENV/305/F002/WATER
NR/L3/CPR/305/F003	Utility Change Request	2	Reference change to NR/L3/ENV/305/F003
NR/L3/CPR/305/F004/ELECTRICITY	Utility Disconnection Request (Electricity)	2	Reference change to NR/L3/ENV/305/F004/ELECTRICITY

## Withdrawn Documents (cont.)

Withdrawn Document	Title	Issue	Replacement Document(s)
NR/L3/CPR/305/F004/GAS	Utility Disconnection Request (Gas)	2	Reference change to NR/L3/ENV/305/F004/GAS
NR/L3/CPR/305/F004/WATER	Utility Disconnection Request (Water)	2	Reference change to NR/L3/ENV/305/F004/WATER
NR/L3/CPR/305/F005	Utility Project Handover	2	Reference change to NR/L3/ENV/305/F005
NR/L3/CPR/305/F006	Utility Contact List	2	Reference change to NR/L3/ENV/305/F006
NR/L3/INI/PG115/BIS/001	Document management	2	Withdrawn. Replaced by NR/L3/INI/P3M/131 ISSUE 1
NR/L3/INI/PG115/PS/015	Use of Earned Value Reporting in Investment Projects	2	Withdrawn. Replaced by NR/L2/INI/P3M/130 ISSUE 1
NR/L3/INI/PG115/PS/016	Earned Value Reporting - Guidance on definitions and acceptable practices	2	Withdrawn. Replaced by NR/L2/INI/P3M/130 ISSUE 1
NR/L3/INI/PG115/PS/017	Earned Value Reporting - Guidance on Set Up and Maintenance of Primavera Schedules	1	Withdrawn. Replaced by NR/L2/INI/P3M/130 ISSUE 1
NR/L3/NDS/047	Train Operations Manual - Contents	21	Withdrawn
NR/L3/NDS/047/F012	Train operations manual change proposal form	1	Withdrawn. Replaced by NR/L2/RMVP/0200 Module P100
NR/L3/NDS/047/TMC01	Management of signals passed at danger (Train Operations)	7	Withdrawn. Replaced by NR/L2/RMVP/0200 – Modules P507, P519, P521, P701
NR/L3/NDS/047/TMC02	Trains out of service contingency plan (OTP)	4	Withdrawn. Replaced by NR/L2/RMVP/0200 – Modules P101, P507, P509, P521
NR/L3/NDS/047/TMC03	Booking on and off arrangements (OTP)	5	Withdrawn. Replaced by NR/L2/ERG/003 and NR/L2/RMVP/0200 – Modules P101, P521
NR/L3/NDS/047/TMC08/F015	OTP Machine/Crane Controller Checklist (also NR/L3/NDS/048/TMM003/F015)	1	Withdrawn. Replaced by NR/L2/RMVP/0200/F027
NR/L3/NDS/047/TMC09	Use of On Track Plant (OTP) trailers	6	Withdrawn. Replaced by NR/L2/RMVP/0200 – Modules P504, P509, P510, P516, P518, P521, P505, P507, P701
NR/L3/NDS/047/TMC10	Planning the use of On-track Plant (OTP)	5	Withdrawn. Replaced by NR/L2/RMVP/0200 – Modules P500, P503, P507, P516, P521, P701

## Withdrawn Documents (cont.)

Withdrawn Document	Title	Issue	Replacement Document(s)
NR/L3/NDS/048	Train Operations Manual - Industry Mandatory Section	13	Withdrawn
NR/L3/NDS/048/TMM001	Machine/crane controller competency (formerly NR/L3/RMVP/048/TMM001)	9	Withdrawn. Replaced by NR/L2/RMVP/0200 – Modules P500 and NR/L1/CTM/001
NR/L3/NDS/048/TMM003	OTP machine/crane controller checklist (also NR/L3/NDS/047/TMC08)	3	Withdrawn. Replaced by NR/L2/RMVP/0200/F027
NR/L3/NDS/048/TMM004	Train and plant movement and control arrangements within engineering possessions on Network Rail controlled infrastructure (formerly NR/L3/RMVP/048/TMM004)	2	Withdrawn. Replaced by NR/L2/INI/CP0070 and NR/L2/RMVP/0200 – Module P505
NR/L3/NDS/048/TMM005	Conditions for On-Track Plant Travelling without a Machine Controller	4	Withdrawn. Replaced by NR/L2/RMVP/0200 – Module P507
NR/L3/NDS/312	National Delivery Service Forms Index	1	Withdrawn
NR/L3/NSC/313	On-track machines (OTMs) driver and operations standards manual	1	Reference change to NR/L3/SCO/313
NR/L3/SIG/10064/X001	Electrical Safety - General	2	Withdrawn. Replaced by NR/L3/SIGELP/50003
NR/L3/SIG/10064/X002	Electrical Safety -Working On or Testing Electrical Equipment	2	Withdrawn. Replaced by NR/L3/SIGELP/50004
NR/L3/SIG/10064/X003	Electrical Safety -Isolation of Electrical Equipment Before Work	2	Withdrawn. Replaced by NR/L3/SIGELP/50005
NR/L3/SIG/10064/X004	Electrical Safety - Permit to Work	2	Withdrawn. Replaced by NR/L3/SIGELP/50006
NR/SP/ELP/21074	Overhead Line Equipment Allocation Design for Railway Electrification (formerly RT/E/S/21074)	2	Withdrawn. NR/L2/ELP/27715 ISSUE 2
NR/SP/ELP/21078	Design of Return Conductor Systems for AC Electrified Lines (formerly RT/E/S/21078)	3	Withdrawn. NR/L2/ELP/27715 ISSUE 2
NR/SP/ELP/27042	The Location and Design of Designated Earth Points for Overhead Line Equipment (formerly RT/E/C/27042)	2	Withdrawn. NR/L2/ELP/27715 ISSUE 2
NR/SP/ELP/27204	Specification for the screening of Signals	2	Withdrawn. NR/L2/ELP/27715 ISSUE 2
RT/E/C/11711	ERTMS Readiness	1	Reference change to NR/L2/SIG/11711 ISSUE 2

## NR/L2/CIV/086 Management of earthworks

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2018	Superseded	7	Eifion Evans, Principal Engineer (Geotechnics)
What's new, what's changed			Why	
<p>Module 2; Earthwork Assessment is a new standard.</p> <p>NR/L2/CIV/086 has been updated to amend the index list to show Module 2 as no longer 'to be developed'.</p> <p>The assessment of earthworks is part of the overall process of management of earthworks; it follows the evaluation stage and the output is used to determine what actions are required and what form those actions may take to manage the safe operation of the railway.</p>			N/A	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/CIV/023 Assessment of footbridges


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/03/2019	New	1	Nataliya Aleksieva, Engineer
What's new, what's changed			Why	
<p>This is a new standard and compliments NR/L2/CIV/035.</p> <p>It provides requirements and guidance for:</p> <ul style="list-style-type: none"> <li>a) Prioritising assessments;</li> <li>b) Determining the scope of assessments (including situations where qualitative assessment applies);</li> <li>c) Inspections for assessment;</li> <li>d) Quantitative assessments;</li> <li>e) Interventions following assessment.</li> </ul> <p>The document gives recommendations on the standards and analytical methods which should be used to determine the load carrying capacity of existing structures.</p> <p>The standard incorporates the requirements introduced in the Operational Property Technical Advisory Notice developed as part of the National Action Plan in response to the partial failure of Chalkwell Station Footbridge.</p>			N/A	

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## NR/L3/CIV/024 Assessment of operational property structures

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/03/2019	New	1	Nataliya Aleksieva, Engineer
What's new, what's changed			Why	
<p>This is a new standard and compliments NR/L2/CIV/035.</p> <p>It provides requirements and guidance for existing Operational Property structures on:</p> <ul style="list-style-type: none"> <li>a) Prioritising assessments;</li> <li>b) Determining the scope of assessments (including situations where qualitative assessment applies);</li> <li>c) Inspections for assessment;</li> <li>d) Quantitative assessments;</li> <li>e) Interventions following assessment.</li> </ul> <p>The document gives recommendations on the standards and analytical methods which should be used to determine the load carrying capacity of existing Operational Property structures.</p> <p>The standard incorporates the requirements introduced in the Operational Property Technical Advisory Notice developed as part of the National Action Plan in response to the partial failure of Chalkwell Station Footbridge.</p>			N/A	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				


## NR/L2/CSG/STP001 Standards and Controls management manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	7	Stephen Rivers, Senior Standards and Controls Specialist
What's new, what's changed			Why	
<p>NR/L2/CSG/STP001/01 'Principles of Standard and Control Management' and NR/L2/CSG/STP001/02 'Managing Standard and Control Document Change Projects' have been updated.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="144 565 210 625" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>These updates have been made following a review to further improve efficiency and effectiveness of the Standards and Controls Framework. The objective of the review was to confirm the governance system and outputs that support the control of risks throughout Network Rail by maintaining a consistent, safe and coherent company-wide set of standards and control documents.</p>	


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## NR/L2/ELP/27715 Overhead contact system design specification

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	Superseded	2	David Campbell, Principal Engineer
What's new, what's changed			Why	
<p>All the content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="144 506 212 568" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>Compliance with Legislation and changes to Railway Group Standards.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L2/ELP/27730 Specification for 750 V dc switchgear

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2018	Superseded	2	Dave Barnes, Programme Engineering Manager
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="150 511 216 572" data-label="Image">  </div> <p><b>Adobe Acrobat Document</b></p>			<p>The red requirement in 13.6 was challenged as impracticable for their infrastructure by a Route.</p> <p>The opportunity has also been taken to make a few other minor corrections.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/ELP/27237 Overhead line work instructions

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	30/06/2018	Superseded	15	Adrian Burton, Engineer
What's new, what's changed			Why	
<p>NR/L3/ELP/27237 already contains a module detailing the installation of this type of section insulator. As such this type of section insulator is installed and is operational across the network. Until now there has not been a supporting maintenance module.</p> <p>The new module sets out the tools and equipment required and specifies the methodology employed to maintain and replace any components as required.</p> <p><b>NR/L3/27237/OLE/C03a</b> - Maintenance of Arthur Flury HI25 Section Insulator</p>			<p>This new module provides a consistent approach to the maintenance of Arthur Flury HI25 Section Insulator installed on Network Rail infrastructure. It will enable improved OLE asset performance and reliability by specifying correct and consistent maintenance of this type of section insulator across the network.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/ELP/27250 Conductor rail equipment working instructions

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	3	Jim Snowdon, Senior Engineer (Contact Systems)
What's new, what's changed			Why	
Data sheets NE/CRE/100 – 700 deleted from standard.			Transfer of CRE data sheets NE/CRE/100 – 700 is to facilitate the issue of new standard CRE/L3/ELP/27424 to cover all aspects of CRE and Negative Bonding Design	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

# NR/L3/ELP/27424 750V DC Conductor Rail Equipment Design Manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	New	1	Jim Snowdon, Senior Engineer (Contact Systems)
What's new, what's changed			Why	
Data sheets NE/CRE/100 – 700 move from NR/L3/ELP/27250. Now published as 7 modules.			<p>New standard NR/L3/ELP/27424 is being issued to allow for the consolidation of the existing standards and data sheets relating to the design of conductor rail equipment and associated negative bonding arrangements into a single handbook. This will allow multiple existing standards covering the same subjects to be withdrawn, eliminating conflicts and facilitating both a general update and the future issue of updates.</p> <p>This issue covers the transfer in of CRE data sheets NE/CRE/100 – 700 (previously in NR/L3/ELP/27250). The CRE design modules (NR/CRE/800) will be added in a following issue of this standard.</p>	


**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

# NR/L2/ENV/115 Environment and social management system requirements

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2019	New	1	Daniel Ditri, Environmental Specialist (Waste)
What's new, what's changed			Why	
<p>This business process provides the framework requirements for Network Rail's business units to implement and maintain an Environment and Social Management System (ESMS), which relates to the management of risks associated with Environment and Social activities.</p> <p>It enables business units to implement a system aligned with ISO 14001:2015 that covers both Environment and Social requirements in support of Network Rail's Environment and Social Performance Policy. The intended outcomes of the ESMS are to:</p> <ol style="list-style-type: none"> <li>enhance environmental and social performance;</li> <li>identify and fulfil all compliance obligations;</li> <li>set and achieve environmental and social objectives.</li> </ol> <p>Furthermore establishing a successful ESMS has other positive impacts on the business, including but not limited to:</p> <ol style="list-style-type: none"> <li>cost savings;</li> <li>enhanced business reputation;</li> <li>enhanced employee engagement.</li> </ol>			<p>New Standard which has been developed to enable Network Rail to meet the commitments made in the Environment and Social Performance Policy (NRL1ENV100) which was published in September 2017:</p> <p>We will implement and maintain an environmental management system that follows the principles of ISO 14001:2015 with commitment from our Executive Team.</p> <p>We will implement and maintain a management system, and will set targets to monitor and continually improve our social performance across the network.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/ENV/305 How to change utility suppliers

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	2	Nsipa Siwale, Senior Engineer [Energy & Carbon]
What's new, what's changed			Why	
<p>All the content of this standard/control document has been revised.</p> <p>A summary of the changes can be found on the briefing note.</p> <p>References for all forms updated from NR/L3/CPR/305/xxx to NR/L3/ENV/305/xxx. Except for NR/L3/ENV/305/F006, no changes to content.</p> <p>NR/L3/ENV/305/F006 updated to reflect changes to contact details.</p>			<p><b><u>Legislation – Water Deregulation</u></b> Water Deregulation – The Water retail market in England for commercial customers has been deregulated as of April 2017. Network Rail has gone to market and appointed one water supplier for England. Current water total spend is £2.9M anticipated savings = 10%</p> <p><b><u>Legislation – Electricity</u></b> Electricity Connections Standards of Performance) Regulations 2015 No. 698</p> <p><b><u>Legislation</u></b> CDM Construction (Design and Management) Regulations 2015 Replacing CDM 2007</p> <p><b><u>Scale of number Network rail utility Supplies</u></b> Over 10,500 Utility supply points Network rail spends about £360m per year on utilities Each new connection costs a minimum of £2200 and disconnections cost a minimum of £990 A supply not disconnected using the process attracts standing charges for each day. Costs start from £1 per day. A supply not connected on time delays project commissioning</p> <p><b><u>Appointment of Supplier</u></b> Failure to appoint the Framework supplier results in paying high rates for utilities. Eliminate delays in carrying out connections and disconnections and therefore reduce costs</p> <p><i>Further details on briefing note</i></p>	
<p> Adobe Acrobat Document</p>				
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				


## NR/L3/INI/P3M/130 Controls manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	New	1	Charlotte Fidler, Principal Programme Controls Manager
What's new, what's changed			Why	
<p>The purpose of this manual and its modules is to define and mandate the processes for controlling individual project stages from initial concept to close out. It supports NR/L3/INI/P3M/123 which is included in the P3M Framework, NR/L2/INI/P3M/101.</p> <p>This manual and modules will reduce the reputational and financial risk related to the delivery of complex projects.</p>			<p>This is a new standard which sits under Programme Controls. This standard will contribute to the reduction of inconsistency in ownership of Network Rails core policy, governance, and process for the delivery of capital investment on the operational railway (project and programmes) which may result in conflicting governance and guidance and ultimately loss of demonstrable control of the project portfolio.</p> <p>Implementation of this standard will reduce the reputational and financial risk related to the delivery of complex projects and programmes.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.




## NR/L3/INI/P3M/131 Document management manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	New	1	Richard Young, Document Control Manager
What's new, what's changed			Why	
<p>The alignment of this standard with BS 1192 and best practice in document referencing, document lifecycle and the security applied to documentation throughout its lifecycle.</p> <p>.</p>  <p>Adobe Acrobat Document</p>			<p>This is a new standard which sits under Programme Controls.</p> <p>Implementation of this standard will reduce the reputational and financial risk related to the delivery of complex projects and programmes.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/INI/P3M/132 Portfolio integration manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	New	1	Sekoura Benissad, Head of Programme Integration
What's new, what's changed			Why	
<p>Following an review undertaken by Head of Programme Controls, an action has been proposed and agreed to create a portfolio integration standard by creating a number of new Standards and other Network Rail documents related to the development and integration of projects and programmes.</p> <p>This Level 3 standard articulates the activities to be undertaken to integrate key resources required for project delivery.</p> <p>The table on the briefing note summarises all the sections/clauses that have been amended/deleted/added.</p> <div data-bbox="160 731 226 793" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>This is a new standard which sits under Programme Controls. This standard will contribute to the identification of resource clashes and the prioritisation of key resource allocation. This in ownership of Network Rail's core policy, governance, and process for the delivery of capital investment on the operational railway (project and programmes) which may result in conflicting governance and guidance and ultimately loss of demonstrable control of the project portfolio.</p> <p>Implementation of this standard will reduce the reputational and financial risk related to the delivery of complex projects and programmes.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/GN/INI/P3M/150 Sponsor's handbook

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	N/A	1	New	Mark Allen, Infrastructure Projects Discipline

### What's new, what's changed

Following an audit undertaken by Internal Audit of GRIP policy and application in the business an audit action has been proposed and agreed to create a project management framework (herein P3M Framework) by combining a number of new and existing Standards and other Network Rail documents related to the development and delivery of projects and programmes.

This Guidance Note standard articulates the activities to be undertaken by the Sponsorship community when leading a project during the GRIP lifecycle.

There is no planned technical briefing of this guidance document due to the document being guidance supporting NR/L3/INI/P3M/122, which has been technically briefed.

The table on the briefing note summarises all the sections/clauses that have been amended/deleted/added.



Adobe Acrobat  
Document


### Why

This is a new standard which sits under NR/L2/INI/P3M/101. This standard will contribute to the reduction of inconsistency in ownership of Network Rail's core policy, governance, and process for the delivery of capital investment on the operational railway (project and programmes) which may result in conflicting governance and guidance and ultimately loss of demonstrable control of the project portfolio.


Implementation of this standard will reduce the reputational and financial risk related to the delivery of complex projects and programmes.

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L2/MTC/PL0175 Infrastructure maintenance planning handbook

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	6	Ian Griffiths, Engineering Expert
What's new, what's changed			Why	
<p>A summary of the changes can be found in the table on the briefing note.</p>  <p>Adobe Acrobat Document</p>			<p>Post-implementation review highlighted minor changes to document and the opportunity was taken to undertake a full technical edit and consolidate reference documentation and issue records from the modules into the index.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				


## NR/L3/MTC/MG0173 Monitoring of spoken safety communications

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	Superseded	2	Ian Griffiths, Engineering Expert
What's new, what's changed			Why	
<p>All the content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="144 506 212 568" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>The East Langton recommendation 6.2 asked for consideration for one company standard on the monitoring and assessment of safety communications. Following the review it is suggested to create one standard for the monitoring, review and management of safety communications for Network Rail Operations and Maintenance functions. This will create one consistent method, one company way of managing safety communications for front line employees.</p> <p>SMF/MG/467 has been introduced for monitoring safety comms and is associated with NR/L3/MTC/MG0213.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/MTC/MG0213 Index of standard maintenance forms

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2018	Superseded	9	Ian Griffiths, Engineering Expert
What's new, what's changed			Why	
<p>Added one new form and up-issued one form.</p> <p><b>SMF/MG/443</b> –Amended – Updated to include question sets for Level Crossing Managers and On Track Plant Specialists.</p> <p><b>SMF/MG/467</b> – New - New form for assessing quality of spoken safety communications</p>			<p><b>SMF/MG/443 (already published)</b></p> <p>There is an overdue internal audit action requiring the introduction of self-assurance for the Route based level crossing activity and this matter has also been raised as a concern by ORR.</p> <p>There is also an improvement notice from the ORR on our adherence to processes to control risks associated with the use of Ironmen.</p> <p><b>SMF/MG/467</b></p> <p>This form is associated with the update of NR/L3/MTC/MG0173 to issue 2 and provides a mechanism for assessment of spoken safety communications in maintenance.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/MTC/RCS0216 Risk Control Manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	11	Ron Checkman, Principal Engineer
What's new, what's changed			Why	
<p>Risk Control Sheet NR/L3/MTC/RCS0216/DP10 'Working on low voltage electrical equipment' has been updated.</p> <p>A summary of the changes can be found in the table on the briefing note</p> <div style="text-align: center;">  <p><b>Adobe Acrobat Document</b></p> </div>			<p>The existing Task Risk Control Sheet covered the controls and risks associated with Working on Low Voltage Equipment which included Signalling Power Supplies but didn't address Functional Signalling Power Circuits.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L2/OPS/290 Business continuity management

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	New	1	Helen Hunter-Jones, Head of Group Risk
What's new, what's changed			Why	
<p>This is a new standard.</p> <ul style="list-style-type: none"> <li>• Introduces a Level 2 BCM Standard document to support compliance requirements.</li> <li>• Defines the Executive vision for BCM arrangements across the business.</li> <li>• Defines Governance and Accountabilities across the business.</li> <li>• Provides information on the key tools and process to be used to develop business continuity arrangements</li> <li>• Outlines the support provided by the BCM Framework in delivering BCM arrangements in Business Units.</li> <li>• Provides guidance on training and exercising requirements</li> </ul>			<p>The standard will enable Network Rail to mitigate the Level 0 BCM risk and concurrently allow the company to meet its obligations under the Group Assurance Letter Process. The document provides the business process to comply with NR/L1/OPS/290.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.



## NR/L3/OPS/045 National operating procedures index

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	3	Paul Ashton, Head of Operations Principles & Standards
What's new, what's changed			Why	
<p>NR/L3/OPS/045/2.03 has not been altered except for the Purpose, Scope, Section 22 for Business Continuity, Appendix B and Appendix C. The changes to the document are the inclusion of the contingent ECO competency requirements into the standards governance arrangements. The requirements for contingent ECOs have not altered but have been clarified to confirm the route to competence for contingent ECOs at the different levels.</p> <p><b>NOTE 1:</b> <i>This document has been editorially amended for clarity.</i></p>			<p>An emergency change was issued in October 2017 to control these urgent risks. This up-issue incorporates the content of that emergency change into the module.</p> <ul style="list-style-type: none"> <li>• The railway is vulnerable to the loss of electrical control capability. Where this happens on a specific Route the train service will be cancelled and the Route not able to apply the Key Route Strategy. Where this is a national loss all train services would be stopped and no Key Route Strategies implemented.</li> <li>• The loss to the business is estimated at £35m per day in Schedule 4 and 8 cost should the capability be lost nationally.</li> <li>• The loss of train services would impact on freight movements and the ability to provide fuel to power stations and airports which would impact on the GB economy.</li> <li>• Any lack of clarity in the contingency arrangements may result in staff not being fully competent or confident resulting in a risk of electrocution.</li> <li>• When the system is live or isolated and not earthed there is a legal requirement for staff to monitor and respond to alarms and incidents involving third parties.</li> <li>• When the system is isolated or isolated and earthed the HV sub stations and feeds would still be live and require staff to monitor and respond to alarms.</li> </ul>	

**NOTE:** *It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.*

# NR/L2/OTK/5100 Boundary measures management manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/04/2019	New	1	Graham Owen, Senior Track & Lineside Engineer
What's new, what's changed			Why	
<p>This is a new standard/control document</p> <p>This document replaces NR/L2/TRK/5100 Issue 2.</p> <ul style="list-style-type: none"> <li>the scope and purpose of boundary management;</li> <li>provides the principles for boundary management;</li> <li>the types of boundary and their use; and</li> <li>Lists the supporting modules and summarises the requirements within each individual module.</li> </ul> <p>The boundary management manual introduces the following supporting boundary management modules:</p> <p>a) NR/L2/OTK/5100/01 <i>Boundary measure Inspection and risk assessment</i></p> <ul style="list-style-type: none"> <li>identifying the appropriate frequency of inspections;</li> <li>recording and scheduling inspection activity within the asset register;</li> <li>the requirements when undertaking inspections; and</li> <li>the method for undertaking the risk assessment during the inspection</li> <li>prioritising work arising from the inspection; and</li> <li>approval and record keeping following the inspection</li> </ul> <p>b) NR/L2/OTK/5100/02 <i>Boundary measure repair by maintenance or renewal</i></p> <ul style="list-style-type: none"> <li>the maintenance, repair and renewal requirements for boundary measures protecting Network Rail operational infrastructure, depots and adjacent railway facilities; and</li> <li>the maintenance, repair and renewal requirements for boundary measures protecting Network Rail disused and closed lines, and other non-operational land.</li> </ul>			<p>The manual covers the requirements set out within the following letter of Instruction:</p> <ol style="list-style-type: none"> <li>NR/BS/LI/185 <i>Requirements where objects placed, fixed structures or other items may provide climbing aids</i></li> <li>NR/BS/LI/322. <i>Timescales for temporary and permanent repair to prevent livestock incursion where there is a change of land use.</i></li> <li>NR/BS/LI/146. <i>Specification and location of boundaries at level crossings.</i></li> </ol> <p>The manual addresses the recommendations regarding a review of the boundary risk ranking process following investigations into:</p> <ol style="list-style-type: none"> <li>Godmersham Derailment (July 2015) and</li> <li>Dalreoch Derailment (November 2015).</li> </ol>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L2/OTK/5201 Lineside vegetation management manual


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/04/2019	New	1	Graham Owen, Senior Track & Lineside Engineer
What's new, what's changed			Why	
<p>This is a new standard control document.</p> <p>This document replaces NR/L2/TRK/5201 ISSUE 4.</p> <ul style="list-style-type: none"> <li>• The principles of lineside management;</li> <li>• Principles on asset knowledge; and</li> <li>• An overview of supporting modules and their content.</li> </ul> <p>The Lineside vegetation management manual introduces the following supporting modules:</p> <p>a) NR/L2/OTK/5201/01 Lineside Vegetation and Risk Assessment;</p> <ul style="list-style-type: none"> <li>• inspection of vegetation on Network Rail operational infrastructure;</li> <li>• targeted survey of trees to ascertain likelihood of failure;</li> <li>• considering the impact of vegetation on other assets;</li> <li>• visual assessment of third party vegetation that has the potential to affect rail safety or performance; and</li> <li>• inspection of vegetation on Network Rail disused lines, closed lines, and other non-operational land.</li> </ul> <p>b) NR/L2/OTK/5201/02 Lineside Vegetation Management Requirements.</p> <ul style="list-style-type: none"> <li>• the requirements for the management of lineside vegetation;</li> <li>• the extents of the intervention zones, including actions required, form the core of this module; and</li> <li>• management of vegetation on other assets.</li> </ul>			<p>The Lineside vegetation management manual provides new profiles that are designed to encourage clearance that will avoid a reactive approach and to manage trees that are large enough to pose a derailment risk. It introduces the requirement to intervene within a specified timeframe where vegetation poses a safety risk.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/GN/RMVP/27702 Lineside vegetation management manual


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	N/A	Superseded	2	Abel Ogba, Senior Engineer Plant and T&RS
What's new, what's changed			Why	
<p>This is an amendment to the existing Plant Product Acceptance (PA) process guidance note (NR/GN/RMVP/27702). This proposed change will make sure the following are embedded into the Plant PA process:</p> <p>A front end assessment which employs CSM-RA principles such as the preliminary system definition (PSD) and significance test for robust risk assessment of new or modified Plant seeking acceptance onto <i>network rail managed infrastructure</i> (NRMI).</p>			<p>Provides a systematic, structured and robust assessment of risks associated with hazards during product acceptance of rail borne plant in line with the common safety method (CSM-RA) on risk evaluation and assessment;</p> <p>Makes sure the risks associated with hazards are mitigated to an acceptable level, thereby reducing the risk of in-service incidents;</p> <p>Closes the Rail Accident Investigation Branch (RAIB) recommendation actioned against Network Rail following the Bryn Station On-track Machine (OTM) runaway accident which occurred on 27<sup>th</sup> November 2014.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L1/RSK/001 Network Rail risk policy

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2018	Superseded	2	Helen Hunter-Jones, Head of Group Risk
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p><b>Adobe Acrobat Document</b></p> </div>			<p>The policy is updated as part of the annual review cycle and to reflect changes in the environment since the last issue.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

# NR/L3/SCO/313 On-Track machines (OTMs) driver and operations standards manual

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	2	Paul Withey, Head of Driving Standards
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="display: flex; align-items: center;">  <p><b>Adobe Acrobat Document</b></p> </div>			<p><b>NR/L3/SCO/313/SP-1.08 ISSUE 2</b> - Following the ORR recommendations for the over speed incident at Queen's Park London 5th January 2016, the Network Rail On-Track Machine (OTM) Head of Driving Standards &amp; OTM Performance Manager carried out a review of NR/L3/NSC/313/SP-1.08 OTM Driver Competence Standards. On review, this documents have been enhanced to ensure late notice information has been received by all driving staff when booking on for duty. Also the driving competency currency of managers, supervisors, trainer &amp; assessors is maintained monthly. (recommendations closed out).</p> <p><b>NR/L3/SCO/313/SP-3.06 ISSUE 2</b> - General OTM Driver Operators Management Instructions has been produced following the ORR recommendations for the over speed incident at Queen's Park London 5th January 2016, the Network Rail On-Track Machine (OTM) Head of Driving Standards &amp; OTM Performance Manager carried out a review of NR/L3/NSC/313/SP-3.06 General OTM Driver Operation. On review, this document has been enhanced to ensure late notice information has been received by all driving staff when booking on for duty. Also the driving competency currency of managers, supervisors, trainer &amp; assessors is maintained monthly. (Recommendations closed out).</p> <p><b>NR/L3/SCO/313/SP-2.05 ISSUE 2</b> The changes have been made following review of document by the Head of Driving Standards, the changes provide enhanced clarity and input of role changes following Organisational Structure changes.</p> <p><b>NR/L3/SCO/313/SP-2.05AA ISSUE 2</b> The changes have been made following review of NR/L3/NSC/313/SP-2.05/AA and the issue of .....</p> <p><i>Further details on briefing note</i></p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/SIGELP/50003 Safe working practices when working on or near signalling equipment

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	New	1	Ron Checkman, Principal Engineer
What's new, what's changed			Why	
<p>This new standard provides guidance on safe working practices for staff engaged in work on or near Functional Signalling Power Circuits. It is intended to supplement the other safe working practices standard, NR/L3/SIGELP/50002, which covers Signalling Power Distribution voltages (&gt; 175V) but does not cover Functional Signalling Power Circuits. Generally, Functional Signalling Power Circuits have lower operating voltages, although some circuit voltages e.g. on track circuits fitted with impedance bonds can have significantly higher operating voltages well in excess of 175V. Topics covered within the standard include: Electrical safety risks associated with working on Signalling Equipment; Planning Work on or near Signalling Equipment; and Working on or near Signalling Equipment. Process charts are provided and illustrate the decision making process to be followed when deciding what safety precautions should be applied for different types of work.</p> <p>NR/L3/MTC/RCS0216/DP10 "Working on low voltage equipment" has been revised as issue 5 (see NR/L3/MTC/RCS02160 issue 11). General Instructions X001, X002, X003 and X004 have been with the issue 6 of NR/L3/SIG/10064 as they are now incorporated in NR/L3/SIGELP/50003.</p>			<p>Existing standard NR/L3/SIGELP/50002, which covers safe working practices for work on Signalling Power Distribution, does not address work on near signalling equipment, and although generally operating voltages are lower they can still be hazardous.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L2/SIG/11711 Digital Railway ready signalling


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	2	Pat McFadden, Engineering Expert
What's new, what's changed			Why	
<p>All the content of this standard/control document has been revised.</p> <p>The previous version of this Standard has been completely replaced with this new one. None of the original content has been retained. This standard, effectively new, sets out the requirements for digital technology which need to be included in conventional schemes, on the assumption that during the service life of most current conventional new and altered signalling it will be possible to bring digital functionality into operational use. The intention is that where possible, future introductions of digital functionality can be made without further interventions or cost beyond the original commissioning. It is considered worthwhile to fully deliver functionality which can reasonably be expected to be used within five years of first commissioning and to make provision for functionality expected to be used within ten years.</p>			<p>The existing standard was out of date and no longer fit for purpose as it predates the current Digital Railway initiative. This new version provides guidance on when to make provision for future functionality and what form that provision should take. This supports the business aspiration to transition from conventional signalling to digital technology in an efficient and cost effective manner.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				



## NR/L2/SIG/30009 Signalling principles handbook

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	13	Graeme Christmas, Principal Engineer
What's new, what's changed			Why	
<p>NR/L2/SIG/30009/E063 replaces the requirements on GK/RT0063</p> <p>The key changes are :</p> <ul style="list-style-type: none"> <li>• The introduction of TORC which enables the provision facilities in control system in lieu of facilities in the interlocking.</li> <li>• The refinement of requirements for common controls between approach locking and train operated route release functions.</li> </ul>			<p>GK/RT0063 has been defined by RSSB as a single duty holder document, and was adopted by Network Rail, this change is an incremental update of the requirements to reflect the changes identified under the simplification of interlocking work stream.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L2/SIG/30014 Signalling works testing handbook

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	13	Rob Wells, Senior Test & Commissioning Engineer
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>12 modules have been amended. 5 modules are new 1 module withdrawn</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p><b>Adobe Acrobat Document</b></p> </div>			<p>These changes reflect revised/new updates for works testing requirements to enable signalling equipment to be bought into service in a safe manner on Network Rail Managed Infrastructure.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/SIG/10064 General instructions to staff working on S&T equipment


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	6	Pardip Basra, Senior Engineer (Signalling)
What's new, what's changed			Why	
<p><b><u>NR/L3/SIG/10064/B005</u></b>            User screens have changed, as well as the functionality of some of the pages. This includes a drop down menu to narrow down which TFM you are looking for by area and location, rather than being faced with a list of all TFM's in the area. There is also now an option to check the details of each TFM, as well as edit some information such as an updated serial number.</p>			<p><i>Module B005 has been updated to reflect changes to the product following the trial on East Anglia Route.</i></p> <p><i>Modules X001, X002 and X003 have been withdrawn as they have been superseded by NR/L3/SIG/ELP/50003.</i></p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/SIG/10661 Signalling maintenance task intervals

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	16	Pardip Basran, Senior Engineer (Signalling)
What's new, what's changed			Why	
<p>Section/clause 6 of this standard/control document has been revised.</p> <p>Deleted - The minimum interval column has been deleted</p> <p>Amended - Frequencies for amended/new SMSs updated</p>			<p>This standard has been updated to reflect revised/new updates for maintenance intervals to enable signalling equipment operate in a safe manner on Network Rail Managed Infrastructure.</p> <p>Note that a technical brief has been produced to support implementation of issue 8 of the SMS and is available from <a href="mailto:signalengineers@networkrail.co.uk">signalengineers@networkrail.co.uk</a></p>	


**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/SIG/10663 Signalling maintenance specifications (SMS)

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	8	Pardip Basran, Senior Engineer (Signalling)
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="144 505 210 568" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>This standard has been updated to reflect revised/new updates for maintenance testing requirements to enable signalling equipment operate in a safe manner on Network Rail Managed Infrastructure.</p> <p>Note that a technical brief has been produced to support implementation of issue 11 of the SMTH and is available from <a href="mailto:signalengineers@networkrail.co.uk">signalengineers@networkrail.co.uk</a></p>	


**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/SIG/10665 Reliability centred maintenance signalling equipment

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	15	Pardip Basran, Senior Engineer (Signalling)
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div data-bbox="144 505 210 568" data-label="Image">  </div> <p>Adobe Acrobat Document</p>			<p>This standard has been updated to reflect revised prerequisites for Banner Repeater Signals.</p> <p>Note that a technical brief has been produced to support implementation of issue 15 of 10665 and is available from <a href="mailto:signalengineers@networkrail.co.uk">signalengineers@networkrail.co.uk</a></p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/SIG/11231 Signal maintenance testing handbook (SMTH)

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	31/05/2018	Superseded	11	Pardip Basran, Senior Engineer (Signalling)
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p>Adobe Acrobat Document</p> </div>			<p>This standard has been updated to reflect revised/new updates for maintenance testing requirements to enable signalling equipment operate in a safe manner on Network Rail Managed Infrastructure.</p> <p>Note that a technical brief has been produced to support implementation of issue 11 of the SMTH and is available from <a href="mailto:signalengineers@networkrail.co.uk">signalengineers@networkrail.co.uk</a></p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.


# NR/L2/SIG/11767 Handbook for EBI track 400 audio frequency track circuit

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	New	1	David Bardwell, Senior Project Engineer [Product Acceptance]
What's new, what's changed			Why	
<p>The New Standard describes the product/equipment, operation and application rules for implementing the Bombardier Transportation EBI Track 400, Coded Track Circuit system on Network Rail infrastructure.</p> <p>The following specific applications are covered:</p> <ul style="list-style-type: none"> <li>Open Line (OL) applications (Definition come from use of frequencies A to H [1549Hz to 2593Hz]) <ul style="list-style-type: none"> <li>Double rail traction return (AC and DC traction areas)</li> <li>Single Rail traction return (AC and DC traction areas)</li> <li>Non-electrified traction areas</li> </ul> </li> <li>Station Area (SA) applications (Definition come from use of new frequency range f1 to f8 [5700Hz to 8500Hz]) <ul style="list-style-type: none"> <li>Double rail traction return (AC and DC traction areas)</li> <li>Non-electrified traction areas</li> <li>Note Single Rail traction return configuration not required with SA</li> </ul> </li> </ul>			<p>Specific benefits over EBI Track 200 implemented with EBI Track 400 include:</p> <ul style="list-style-type: none"> <li>Track Circuit Signal implements unique CODE preventing wsf issues between like frequencies of different tracks and very robust protection against traction/rolling stock interference.</li> <li>Long cable feeds between TX/RX and trackside equipment – up to 5km</li> <li>TX &amp; RX have full Condition Monitoring capability</li> </ul> <p>The system comprises a new range of equipment room products which are the Transmitter, Output Module3 &amp; Receiver. It also uses a proprietary range of power supplies, supplied by PULS, and included as art of the system and Safety Case.</p> <p>The trackside equipment for the OL frequencies is the same as ET200 so there is commonality for equipment from a spares and familiarity point of view.</p> <p>The trackside equipment for the SA frequencies is new and comprises:</p> <ul style="list-style-type: none"> <li>Station Area Tuning Units (SATU) which terminate SA frequency Tuned Zones</li> <li>Coupling Units (CU) which terminate SA frequency tracks at insulated block joints.</li> <li>Z-Bonds used as part of the SA Tuned Zones architecture which required the use of Vortok supplied mounting arrangements</li> </ul> <p>EBI Track 400 is fully supported with its own Training Material and maintenance documentation (SMS, SMTH, SWTH). The installation requirements specific to EBI Track 400 are detailed in the NR Application Manual which is part of the Standard.</p>	


**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.




## NR/L2/TEL/31001 Telecom maintenance testing & fault investigation process

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	4	Colin Mitchell, Senior Engineer
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p>  <p>Adobe Acrobat Document</p>			<p>Changes are required to remove redundant equipment references, add new items of equipment, incorporate to new role on network management tester, assist with the provision of information needed to correctly close down SINCS records.</p> <p>Changes also needed in response to feedback from field staff.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/TEL/30076 The maintenance of processor controlled concentrators

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	3	Colin Mitchell, Senior Engineer
What's new, what's changed			Why	
<p>The content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p>Adobe Acrobat Document</p> </div>			<p>This standard has been updated to remove redundant sections and to incorporate the requirements of expired Letter of instruction NR/BS/LI/311.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L2/TRK/0032 Joining of rails by aluminothermic welding

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	7	Robert Cox, Senior Engineer (Welding)
What's new, what's changed			Why	
<p>All the content of this standard/control document has been revised.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p>Adobe Acrobat Document</p> </div>			<p>Post implementation of the June 17 brief there was a need to amend the document to reflect a review undertaken by the Technical Lead, National Welding Forum and external Stakeholders.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L2/TRK/1019 Lighting requirements for visual track inspection


Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	01/09/2018	New	1	John Harris, Senior Engineer Track & Lineside
What's new, what's changed			Why	
<p>This is a new standard/control document.</p> <p>The content of this document was originally included in NR/L2/TRK/001 AO1 issue 4 and was removed in issue 5 as the technical content for the lighting requirements visual inspection was to be contained in a new standard.</p> <p>Organisational and personnel changes delayed the issue of the new standard until now.</p> <p>Lighting for inspections undertaken in darkness have continued to be assessed and signed off by RAM (T) &amp; TME as specified in 5.5 of NR/L2/TRK/001 mod 02. This new standard formally specifies the lighting requirements.</p> <p>This new standard aligns the requirements of the minimum lighting levels used during inspection of track assets with European Standards and provides requirements &amp; guidance for fixed, trolley and personal lighting.</p> <p><b>Significant changes</b>            Minimum lighting levels have increased to 160 lux for general inspection and 500 lux for detailed inspection – this aligns with BS EN 13018:2016. Inspect in both directions and alternate direction of inspection – which mitigates the risk from shadowing of light source.</p>			<p>Controls risk of missing track defects due to insufficient light during inspection, meets EN requirements for inspection and provides clear instructions on how to deliver effective lighting for reliable inspection.</p>	
<p><b>NOTE:</b> It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.</p>				

## NR/L3/TRK/003 Index of track engineering forms

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	02/06/2018	Superseded	26	Deanne Haseltine, Senior Engineer
What's new, what's changed			Why	
Index updated to reflect changes to the following TEFs <u>New TEFs</u> 3269 Supervisory Inspection of Lineside Vegetation Report 3270 Cab Ride of Lineside Vegetation Report 3271 Supervisory Inspection of Boundary Measures Report <u>Revised TEFs</u> 3228 Proposal to introduce PLPR inspection system to deliver Basic Visual Inspection - Record of decisions taken 3238 Risk assessment for PLPR inspection system implementation 3029 Switch inspection form			Three new TEFs (3269, 3270 and 3271) introduced with new standards NR/L2/OTK/5201 and NR/L2/TRK/5100 (both published March 2018).  Revised TEFs 3228 and 3238 revised in the light of experience to simplify the introduction of PLPR.  Revised TEF 3029 revised in light of Routes' feedback to implementation of NR/L2/TRK/053.	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## NR/L3/TRK/3406 Installation of modular S&C

Issue Date	Compliance Date	New/Superseded	Issue	Further information contact
03/03/2018	03/03/2018	Superseded	2	Jeff Hills, Technical Head of Discipline
What's new, what's changed			Why	
<p>Following the post implementation review after the introduction of NR/L3/TRK/3406 issue 1 in September 2017, it was necessary to make a number of changes to correct some technical errors, inconsistent use of terminology and missing definitions.</p> <p>A summary of the changes can be found in the table on the briefing note.</p> <div style="text-align: center;">  <p><b>Adobe Acrobat Document</b></p> </div>			<p>A number of errors and omissions existed in issue 1 that required correction. Issue 2 is a result of further stakeholder comments/review completed as part of the post implementation review.</p>	

**NOTE:** It is the duty of those briefed or notified, to read through this document and familiarise themselves with its content.

## Current Emergency Changes

Document Reference	Title	Issue	Date
NR/BS/LI/401 *NEW*	Standard affected: NR/L3/ELP/29987 (Issue 4), Working on or About 25 kV A.C. Electrified Lines	1	21/12/2017
NR/BS/LI/400	Standard Affected: NR/L3/OPS/045/2.03 (Issue 01) Electrical Control Operator Competence and Assessment Framework <b>SUPERSEDED BY NR/L3/OPS/045 Issue 3 HISTORIC ON 2 JUNE 2018</b>	1	31/10/2017
NR/BS/LI/399 *NEW*	Standard affected: NR/L2/ELP/21087 (Issue 07), [Risk Based Maintenance for Overhead Line Electrification Assets]	1	08/12/2017
NR/BS/LI/398	Standard Affected: NR/L3/MTC/MG0221 (Issue 4) Network Operations non-operations staff management self-assurance procedure	1	23/08/2017
NR/BS/LI/396	Standard/control document affected: NR/L3/ELP/29987 [Working On or about 25 kV a.c. Electrified Lines]	1	07/07/2017
NR/BS/LI/393	Standard/control document affected: NR/L3/ELP/29987 (Issue 4). Working on or about 25 kV A.C. Electrified Lines	1	19/06/2017
NR/BS/LI/391	Standard/control document affected: NR/L2/SIG/11201 Module B11 (Issue 4). Interlockings Electronic Interlocking Guidelines	1	28/04/2017
NR/BS/LI/389	Standard affected: NR/L2/SIG/30009 (Issue 11). Signalling Principles Handbook	1	13/02/2017
NR/BS/LI/387	Standard/control document affected: NR/L3/ELP/21067 (Issue 5). Instructions for making out. issuing and cancelling high voltage Permits to Work. Sanctions for Test and Circuit State Certificates	1	26/07/2017
NR/BS/LI/384	Standard Affected: NR/WI/ELP/27051 Issue 4 Works Instructions Section D for DC Electrified Lines in the Liverpool Area; NR/L2/ELP/27239 Issue 2 Maintenance Specification for Electrical Traction Distribution Equipment Appendix E Works Instruction <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	21/10/2016
NR/BS/LI/383	Standard affected: NR/L2/CTM/021 (Issue 4). Competence and Training	2	08/12/2016
NR/BS/LI/375	Standard affected: NR/WI/ELP/27051 (Issue 4). Working Instructions for DC Electrified Lines in the Liverpool Area <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	14/06/2016
NR/BS/LI/374	Standard affected: NR/WI/ELP/27051 (Issue 4). Working Instructions for DC Electrified Lines in the Liverpool Area <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	13/06/2016
NR/BS/LI/372 *NEW*	Standards affected: NR/L2/ELP/27401 (Issue 1), Configuration Management and change to protection and control systems	2	04/12/2017

## Current Emergency Changes (cont.)

Document Reference	Title	Issue	Date
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/370	Standard affected: RT/E/S/21131 (Issue 1). Warning and other signs for a.c. and d.c. electrified lines	1	26/10/2016
NR/BS/LI/367	Standard affected: NR/L3/ELP/29987 (Issue 4). Working On or About 25kV A.C. Electrified Lines	1	07/01/2016
NR/BS/LI/366 *NEW*	Standard affected: NR/L2/ELP/27229 (Issue 2). Specification for remote control equipment for electrical distribution systems	2	04/12/2017
NR/BS/LI/365	Standard affected: NR/L3/TRK/4004 (Issue 2). Switch and Crossing Assemblies	2	16/06/2016
NR/BS/LI/349	Standards affected: NR/L2/CIV/003 Engineering Assurance of Building and Civil Engineering Works [Issue 4]	1	02/02/2015
NR/BS/LI/348	Requirements for undertaking the roles of Lead Examiner and Examining Engineer for the examination of Tunnels.	1	23/02/2015
NR/BS/LI/347	Standard affected: NR/L2/CTM/028 (Issue 2). Competence and Training	1	16/01/2015
NR/BS/LI/346	Standard affected: NR/WI/ELP/27051 (Issue 4). Work Instruction for D.C. Electrified Lines in the Liverpool area <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	16/12/2014
NR/BS/LI/342	Standard affected: NR/SP/ELP/21028 (Issue 3). Specification for ancillary wiring of electrical distribution equipment on A.C. and D.C. electrified lines	1	13/04/2016
NR/BS/LI/340	Standards affected: NR/L3/TRK/4004 (Issue 2). Switch and crossing assemblies	1	07/01/2015
NR/BS/LI/331	Requirements for parapet heights on over bridge and footbridge structures spanning overhead line electrification equipment	2	07/08/2015
NR/BS/LI/328	Standard affected: NR/SP/ELP/21104 (ISSUE 2). Design and Installation of Electric Track Equipment for DC Electrified Lines	1	28/03/2014
NR/BS/LI/326	Standard affected: NR/L2/OHS/050 (Issue 4), Sentinel Scheme Rules	1	16/04/2014
NR/BS/LI/322	Standards affected: NR/L2/TRK/5100. Issue 2. Management of Fencing and Other Boundary Measures <b>SUPERSEDED BY NR/L2/OTK/5100 HISTORIC ON 1 APRIL 2019</b>	1	28/03/2014
NR/BS/LI/306	Standard affected: NR/L1/CIV/032: The Management of Structures [Issue 2]	2	26/09/2014



## Current Emergency Changes (cont.)

Document Reference	Title	Issue	Date
NR/BS/LI/305	Standards Affected: NR/L2/TRK/001 Issue 6. NR/L2/TRK/2102 Issue 6. NR/L2/TRK/3038 Issue 5. NR/L2/TRK/0032 Issue 5. NR/L2/TRK/0132 Issue 6. NR/L3/TRK/3510/A01 Issue 1. NR/L3/TRK/3510/B01 Issue 1. NR/L3/TRK/1015 Issue 2	2	31/01/2014
NR/BS/LI/298	NR/L3/OCS/044/MS-02 Managed Stations Manual - Procedure MS-02 (Issue 3) <del>(NR/L3/OPS/044/MS-02) SUPERSEDED BY NR/L3/OPS/045 HISTORIC ON 2 DECEMBER 2017</del>	3	16/11/2015
NR/BS/LI/296	NR/L3/OCS/043/5.2 - National Control Instructions - Procedure 5.2 (Issue 4). Procedure for the Planned Response to GSM-R System Failure (NR/L3/OPS/043/5.2) <del>SUPERSEDED BY NR/L3/OPS/045 HISTORIC ON 2 DECEMBER 2017</del>	2	16/06/2014
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/283	Standard affected: NR/L3/TRK/4004 (Issue 2). Switch and Crossing Assemblies	2	14/09/2015
NR/BS/LI/282	Standard affected: NR/WI/ELP/3091 (Issue 2). DC Electrified Lines Working Instructions	1	24/01/2013
NR/BS/LI/281	Standard affected: NR/SP/ELP/21060 (Issue 2). Issue of Safety Documentation for Work on 650/750 V dc Apparatus	1	24/01/2013
NR/BS/LI/273	Standard affected: NR/L3/OCS/043 National Control Instruction - Procedure NR/L3/OCS/043/5.11 (Issue 1). Emergency Services Personnel On or Near the Line <del>(NR/L3/OPS/043/5.11) SUPERSEDED BY NR/L3/OPS/045 HISTORIC ON 2 DECEMBER 2017</del>	4	10/07/2014
NR/BS/LI/256	Standard affected: NR/SP/ELP/27243 (Issue 1). Specification for Signalling Power Supplies	2	24/10/2016
NR/BS/LI/217	Standards affected: NR/SP/ELP/27224 [Issue: 2] Specification for the installation of cable routes forming part of the traction distribution system	4	25/01/2016
NR/BS/LI/193	Standards affected: NR/L3/CIV/006 Part 11A: Reporting and recording examinations of Structures in CARRS [Issue 2]	2	03/09/2014
NR/BS/LI/185	Standard affected: NR/L2/TRK/5100 (Issue 2). Management of Fencing and Other Boundary Measures <del>SUPERSEDED BY NR/L2/OTK/5100 HISTORIC ON 1 APRIL 2019</del>	3	03/03/2017
NR/BS/LI/174	Standard affected: NR/WI/ELP/3091 (E 2). DC Electrified Lines Working Instructions	1	19/04/2010

## Current Emergency Changes (cont.)

Document Reference	Title	Issue	Date
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/146	Standard affected: NR/L2/TRK/5100 (Issue 2). Management of Fencing and Other Boundary Measures <b>SUPERSEDED BY NR/L2/OTK/5100 HISTORIC ON 1 APRIL 2019</b>	1	31/10/2009
NR/BS/LI/119	Standard affected: NR/WI/ELP/3091 (Issue E2). DC Electrified Lines Working Instructions	1	12/12/2008
NR/BS/LI/118	DC Electrified Line Working Instruction - standard affected NR/WI/ELP/3091	3	21/04/2011
NR/BS/LI/106	Electric Points Heating - standard affected NR/L2/ELP/40045	2	01/09/2011
NR/BS/LI/101	Standard affected: RT/CE/S/077 Storage. Installation & Testing of TSR & ESR AWS	1	08/09/2008
NR/BS/LI/099	Standard affected: NR/WI/ELP/27051. [Working Instructions for DC Electrified Lines in the Liverpool Area]. Issue 4 <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	16/09/2008
NR/BS/LI/097	Standard affected NR/WI/ELP/27052 Work Instructions for DC electrified lines in the Northern city line	1	04/06/2008
NR/BS/LI/096	Standard affected NR/WI/ELP/27051 - Work Instructions for DC electrified lines in the Liverpool area <b>SUPERSEDED BY NR/L3/ELP/27051 HISTORIC ON 3 MARCH 2018</b>	1	04/06/2008
NR/BS/LI/095	Standard affected NR/WI/ELP/3091. DC electrified lines and working instructions	1	04/06/2008
NR/BS/LI/091	Use of CEMBRE Rail Web Connection Systems on DC Conductor Rail - standard affected NR/GN/ELP/27020	1	27/05/2008
NR/BS/LI/090	Standard affected: NR/WI/ELP/3091. DC electrified lines working instructions. Issue E2	4	14/02/2014
NR/BS/LI/084	Project D686: Western Territory 650 V Cable Renewals	1	18/04/2008
NR/BS/LI/083	Rail Defect Classification Codes and Summary of Changes to NR/SP/TRK/057	1	15/05/2008

## Current Emergency Changes (cont.)

Document Reference	Title	Issue	Date
NR/BS/LI/074	DC Certificates of Isolation associated with circuit breaker - Affected Standard NR/WI/ELP/3091	1	25/10/2007
NR/BS/LI/072	STL Auxiliary Transformer Failures at Traction Substations or Switching Stations	4	19/10/2007
NR/BS/LI/061	Dangerous Incident Notification: 11kV indoor switchgear type YSF6 manufactured by Yorkshire Switchgear	1	23/11/2006
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/058	Train Based Grinding Specification for Switches and Crossing Grinding <b>WITHDRAWN HISTORIC ON 3 MARCH 2018</b>	1	26/09/2006
NR/BS/LI/057	Train Based Grinding Specification For Plain Line Grinding <b>WITHDRAWN HISTORIC ON 3 MARCH 2018</b>	1	26/09/2006
NR/BS/LI/056	Permal Bushings: Access Restrictions	1	11/09/2006
NR/BS/LI/054	Maintenance and Operation of WS Switchgear	1	04/08/2006
NR/BS/LI/047 - E&P	Bimold Connections on Rectifier Transformers at DC Traction Substations	1	05/05/2006
NR/BS/LI/040	650 V D.C. Traction Power Cables - Support Systems - affected standard NR/SP/ELP/27224	1	20/12/2005
NR/BS/LI/037	Letter of Instruction re Neutral Section trippings at Hayes	1	10/11/2005
NR/BS/LI/034	Programme to replace components in d.c. circuit breakers comprising asbestos containing materials - affected standard NR/L3/ELP/00110	1	31/10/2005
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
NR/BS/LI/025	Paralleling of EDFE Supply Points New Cross - Croydon. Wimbledon. Northfleet: Restrictions	3	07/01/2008
NR/BS/LI/011	Substation Entry Restrictions for Locations Containing ASEA Minimum Oil 25 kV Switchgear	6	17/10/2006

**NETWORK RAIL STANDARDS**

**BRIEFING NO. 107**

Date of Briefing:

Name of Person Briefing the Changes	Title	Company / Department

The undersigned confirm that they have received this awareness briefing.

Name	Title	Position/Company	Signature

\*NOTE: You may use and retain this form as a record of your Standards Briefing

# Important reminder

Network Rail standards are mandatory and shall be complied with by Network Rail and its contractors where applicable. Each Network Rail Standard contains requirements that are colour coded according to the User information classification below.

## User information

This Network Rail document contains colour-coding according to the following Red–Amber–Green classification.

### **Red requirements - no variations permitted**

- Red requirements are to be complied with and achieved at all times.
- Red requirements are presented in a red box.
- Red requirements are monitored for compliance.
- Non-compliances will be investigated and corrective actions enforced.

### **Amber requirements - variations permitted subject to approved risk analysis and mitigation**

- Amber requirements are to be complied with unless an approved variation is in place.
- Amber requirements are presented with an amber sidebar.
- Amber requirements are monitored for compliance.
- Variations can only be approved through the national non-compliance process.
- Non-approved variations will be investigated and corrective actions enforced.

### **Green guidance - to be used unless alternative solutions are followed**

- Guidance should be followed unless an alternative solution produces a better result.
- Guidance is presented with a dotted green sidebar.
- Guidance is not monitored for compliance.
- Alternative solutions should be documented to demonstrate effective control.

***Are you new to the Standards & Controls Management process?***

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[\*\*\*Change Management\*\*\*](#)

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### Network Rail Standards Briefing Cascade & Standards Variations Approval

