

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Level 3

Work Instruction

Signal Maintenance Specifications

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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 variations 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.

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Compliance

This Network Rail standard/control document is mandatory and shall be complied with by Network Rail Infrastructure Limited and its contractors if applicable from 05 September 2026.

Where it is considered not reasonably practicable¹ to comply with the requirements in this standard/control document, permission to comply with a specified alternative should be sought in accordance with the Network Rail standards and controls process, or with the Railway Group Standards Code if applicable.

If this standard/control document contains requirements that are designed to demonstrate compliance with legislation they shall be complied with irrespective of a project's Project Acceleration in a Controlled Environment (PACE) phase or equivalent governance framework. In all other circumstances, projects that have formally completed PACE strategic development & project selection phase may continue to comply with any relevant Network Rail standards/control documents that were current when PACE phase 1 was completed.

NOTE 1: Legislation includes National Technical Specification Notices (NTSNs)

NOTE 2: The relationship of this standard/control document with legislation and/or external standards is described in the purpose of this standard.

NOTE 3: For more information on PACE see NR/L2/P3M/201.

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¹ This can include gross proportionate project costs with the agreement of the Network Rail Assurance Panel (NRAP).

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Issue record

Issue	Date	Comments
9	September 2018	Update for new and updated SMS
10	June 2019	Update for new and updated SMS
11	Mar 2020	Update for new and updated SMS
12	December 2020	Update for new and updated SMS
13	September 2021	Update for new and updated SMS
14	December 2021	Updated for new and amended SMS's following PMR Project.
15	June 2022	Update for new and updated SMS
16	March 2023	Update for new and updated SMS
17	December 2023	Update for new and updated SMS
18	December 2024	Update for new and updated SMS
19	June 2025	Update for new and updated SMS
20	December 2025	Update for new and updated SMS
21	June 2026	Update for new and updated SMS

Legislation

No legislation has been identified that is applicable to the content of this standard/control document.

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Contents

1 Purpose	6
2 Scope.....	6
3 Index for NR/SMS	6

Index's

<u>NR/SMS/Part/A</u>	<u>General</u>
<u>NR/SMS/Part/B</u>	<u>Specific Tests</u>
<u>NR/SMS/Part/C</u>	<u>Tasks</u>
<u>NR/SMS/Part/D</u>	<u>Level Crossing Annual Tests</u>
<u>NR/SMS/Part/E</u>	<u>Assets other than Signalling</u>
<u>NR/SMS/Part/L</u>	<u>Local Instructions</u>
<u>NR/SMS/Part/R</u>	<u>Maintenance Record Cards</u>
<u>NR/SMS/Part/T</u>	<u>Telecoms Assets</u>
<u>NR/SMS/Part/Z</u>	<u>Reference Values</u>
<u>NR/SMS/Part/Appendix</u>	<u>SMS Appendixes</u>

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

1 Purpose

This document contains the index to the Signal Maintenance Specifications (NR/SMS) for signalling equipment on Network Rail Managed Infrastructure (NRMI).

2 Scope

This document applies to all staff who carry out corrective or preventative maintenance to signalling equipment on NRMI.

3 Index for NR/SMS

The indexes show the latest (current) issues of the individual NR/SMS documents.

Heading	Title	Iss No.	Issue Date	Compliance Date
Part A				
Index	Index - General	17	06/06/2026	05/09/2026
A01	Introduction	8	05/12/2020	05/06/2021
A02	Preventative & Corrective Maintenance	2	04/03/2017	31/05/2017
A03	Definitions	8	06/06/2026	05/09/2026
A04	Method Statement Summary	8	04/03/2017	31/05/2017
A05	Plant, Tools & Calibration	4	04/03/2017	31/05/2017
A06	Materials	5	04/06/2022	03/09/2022
A07	Security of Equipment	3	04/09/2021	04/12/2021
A08	Items for Renewal	4	04/06/2022	03/09/2022
A09	Lubrication	4	04/06/2022	03/09/2022
A10	Painting & Surface Treatments	4	04/09/2021	04/12/2021
A11	Maintenance Diagrams	3	04/06/2022	03/09/2022
A14	Environmental Issues	4	04/06/2022	03/09/2022
A15	Out of Use Assets	4	04/09/2021	04/12/2021
A16	Reference Documents	4	04/06/2022	03/09/2022
A17	Signalling Definitions	5	04/03/2023	03/06/2023

Heading	Title	Iss No.	Issue Date	Compliance Date
Part B				
Index	Index – Specific Tests	23	06/06/2026	05/09/2026
Test 001	Facing Point Lock Tests (Machine)	4	04/06/2022	03/09/2022
Test 002	Facing Point Lock Tests (Mechanical)	5	04/06/2022	03/09/2022
Test 003	Facing Point Lock Tests (Clamp lock)	9	04/06/2022	03/09/2022
Test 004	Facing Point Lock Tests (HPSS)	8	04/06/2022	03/09/2022
Test 005	Facing Point Lock Tests (T72 with VCC Lock)	4	04/06/2022	03/09/2022
Test 006	Wheel Stop Detection Test	1	01/09/2018	01/12/2018
Test 007	Detection Test (T72 with VCC Detector)	4	04/03/2023	03/06/2023
Test 008	HPSS Tests	4	04/03/2023	03/06/2023
Test 009	Detection Test (SO Hydraulic Supplementary Point)	3	04/03/2023	03/06/2023

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part B				
Test 010	BR998 Detector Tests	4	04/03/2023	03/06/2023
Test 011	Detector Tests (Electrical Detectors)	5	04/03/2023	03/06/2023
Test 012	Detector Tests (Mechanical Detectors)	4	04/03/2023	03/06/2023
Test 013	Detection Test (Clamplock)	6	07/12/2024	01/03/2025
Test 014	Lock and Detector Full Test (Clamp lock)	4	01/06/2019	07/09/2019
Test 015	Clamp Lock: Test for air in the system	3	01/06/2019	07/09/2019
Test 016	Detection Test (Supplementary Detectors)	9	07/03/2020	06/06/2020
Test 017	Mk1 Clamp Locks Test For Cracking	2	04/03/2017	31/05/2017
Test 018	Train Operated Points Detection Test	2	04/03/2017	31/05/2017
Test 019	Detection Loop Test	3	04/03/2017	31/05/2017
Test 020	Hydraulic Derailer (Type BRB 817) Tests	2	04/03/2017	31/05/2017
Test 021	Filament Signal Lamp Tests	7	04/03/2017	31/05/2017
Test 022	Signal Lamp and Light Module Proving Tests	8	04/03/2023	03/06/2023
Test 023	Other Signal Tests	4	04/03/2023	03/06/2023
Test 024	AWS Tests	7	05/12/2020	05/06/2021
Test 025	Vehicle Identification Loops (VIS) Loop Tuning Setup	1	04/06/2022	03/09/2022
Test 026	Trainstop Calibration Test	3	04/03/2017	31/05/2017
Test 027	JE Style TrainStop Detection Test	1	03/03/2018	31/05/2018
Test 028	JE Style TrainStop Positioning Check	1	03/03/2018	31/05/2018
Test 030	AzL Axle Counter Isolate, reset and restore procedures	1	03/03/2018	31/05/2018
Test 031	Thales Axle Counter Reference Direction Function Test	2	02/12/2023	02/03/2024
Test 037	Frauscher: RSR123 Wheel Sensor Occupancy Detection Capability Test	2	02/12/2023	02/03/2024
Test 038	Siemens ACM 100 - Calibration of Wheel Detector	4	03/03/2018	31/05/2018
Test 039	Siemens ACM 100 – In Service Functional Test of Wheel Detector	3	03/03/2018	31/05/2018
Test 040	Frauscher: RSR123 Wheel sensor adjustment – associated with AEB Boards	6	05/12/2020	05/06/2021
Test 041	Insulated Rail Joint (IRJ) Tests	5	07/06/2025	06/09/2025
Test 042	Axle Counters Dummy Wheel Test - AzL 70, 70/30, 70/30S	2	05/12/2020	05/06/2021
Test 043	TCAID Test	4	04/06/2022	03/09/2022
Test 044	Mechanical Treadle Timing and Adjustment Test	2	01/06/2019	07/09/2019
Test 045	Thales Axle Counter Dummy Wheel Test (AzLM)	7	06/06/2026	05/09/2026
Test 046	Level Crossing CCTV Camera Test	3	07/06/2025	06/09/2025
Test 047	CCTV Tx System Tests	4	03/03/2018	31/05/2018
Test 048	Tail Lamp CCTV Tests	2	03/03/2018	31/05/2018
Test 049	Ultra Circuit Contact Box Set-up procedure	1	01/09/2018	01/12/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part B				
Test 051	Busbar Earth Tests	5	07/03/2020	06/06/2020
Test 052	Dynamic Earth Tests	5	05/12/2020	05/06/2021
Test 053	Earth Leakage Detector (ELD): Testing and Calibration	7	04/09/2021	04/12/2021
Test 054	Cable Insulation Tests	9	04/09/2021	04/12/2021
Test 055	Secondary Cell Test	8	07/12/2024	01/03/2025
Test 056	Avel-Lindberg Static Inverter Tests	5	05/12/2020	05/06/2021
Test 057	Uninterruptible Power Supplies (UPS) Tests	5	04/03/2023	03/06/2023
Test 058	Primary Cell Test	4	03/03/2018	31/05/2018
Test 059	Emergency Pull Cable System Tests	3	04/06/2022	03/09/2022
Test 060	Emergency Signals on Control (ESOC) Test	3	01/06/2019	07/09/2019
Test 061	Relay Timer Test	2	03/03/2018	31/05/2018
Test 062	Line Protection Unit Test	3	03/03/2018	31/05/2018
Test 063	(RETB) Radio System Tests	6	07/03/2020	06/06/2020
Test 064	(RETB) Fixed Site Power Supply Test	6	07/03/2020	06/06/2020
Test 065	(RETB) Fixed Site Antenna Systems Test	6	07/03/2020	06/06/2020
Test 066	Fixed Site Radio and Site Interface Equipment	6	07/03/2020	06/06/2020
Test 069	SELC Digital Timer – Set-up Procedure	2	04/09/2021	04/12/2021
Test 070	AHBC Operational Sequence Test	3	07/03/2020	06/06/2020
Test 071	ABCL Operational Sequence Test	2	01/06/2019	07/09/2019
Test 072	AOCL Operational Sequence Test	2	03/03/2018	31/05/2018
Test 073	AOCR Operational Sequence Test	2	03/03/2018	31/05/2018
Test 074	MSL Operational Sequence Test	3	01/09/2018	01/12/2018
Test 075	MCB Operational Sequence Test	4	04/03/2023	03/06/2023
Test 076	OCB Operational Sequence Test	3	06/12/2025	07/03/2026
Test 077	Barrow Crossing Operational Sequence Test	2	03/03/2018	31/05/2018
Test 078	Level Crossing Gates Operational Sequence Test	3	01/06/2019	07/09/2019
Test 079	Interrogation of the EBI Gate 200 SD Card	3	04/03/2023	03/06/2023
Test 080	AHBC with Predictor Operational Sequence Test	4	03/03/2018	31/05/2018
Test 081	MSL with Predictor Operational Sequence Test	2	03/03/2018	31/05/2018
Test 082	Frauscher : RSR 123 Wheel Sensor Adjustment - associated with IMC & ACB Boards	6	05/12/2020	05/06/2021
Test 083	AOCL+B Operational Sequence Test	2	01/06/2019	07/09/2019
Test 084	Power Operated Gate Opener Adjustment / Test	3	07/03/2020	06/06/2020
Test 085	HABD Servo System Tests	2	01/06/2019	07/09/2019
Test 086	HABD Servo Alignment Tests	2	01/06/2019	07/09/2019
Test 087	HABD GETS FÜES Functions Test	2	01/06/2019	07/09/2019
Test 089	SSI Datalink Test	5	04/09/2021	04/12/2021

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part B				
Test 099	GEC Override System Test	4	03/03/2018	31/05/2018
Test 149	Electronic Route Selection Equipment (ERSE) Test	5	05/12/2020	05/06/2021
Test 151	Harmon Crossing Processor (HXP-3) Tests	2	01/06/2019	07/09/2019
Test 152	Vital Harmon Logic Controller Tests	3	01/09/2018	01/12/2018
Test 155	WRSL Level Crossing Predictor (GCP3000) Tests	3	01/06/2019	07/09/2019
Test 156	Westrace MK2 Hot Standby PM Changeover Test	2	01/06/2019	07/09/2019
Test 157	Frauscher: RSR 123 Wheel Sensor Adjustment - associated with IMC Boards	4	04/06/2022	03/09/2022
Test 158	Interrogation of the Vamos Crossing System SD Card	2	04/06/2022	03/09/2022
Test 159	VAMOS: Sequence Tests	2	04/06/2022	03/09/2022
Test 160	AFBCL Operational Sequence Test	1	07/03/2020	06/06/2020
Test 161	Flex - Operational Sequence Tests	1	04/06/2022	03/09/2022
Test 170	Point Machine T72 Heater & Thermostat Test	2	01/06/2019	07/09/2019
Test 171	Earth Monitoring Integrity Test	2	01/06/2019	07/09/2019
Test 173	GraphXMaster Projection AC Leakage Test	2	01/06/2019	07/09/2019
Test 174	Patrolman's Lockout Device Test	2	01/06/2019	07/09/2019
Test 175	Remote Condition Monitoring (RCM) Alarms and Insulation Values Test	2	01/06/2019	07/09/2019
Test 176	Lockout Device Test	2	01/06/2019	07/09/2019
Test 177	Treadle - Gauge Test	3	04/09/2021	04/12/2021
Test 180	EPOS - Manual Post Calibration Test	1	04/09/2021	04/12/2021
Test 181	EPOS - Wheel Sensor Occupancy Detection Capability Test	1	04/09/2021	04/12/2021
Test 182	EPOS - Verification of Measurement Accuracy	1	04/09/2021	04/12/2021
Test 183	EPOS - Basic Calibration	1	04/09/2021	04/12/2021
Test 184	EPOS - RSR123 Wheel Sensor Voltage Adjustment	1	04/09/2021	04/12/2021
Test 201	Siemens Point Module Correspondence Test	2	01/06/2019	07/09/2019
Test 202	Siemens Point Detection Module Test	2	01/06/2019	07/09/2019
Test 203	Siemens Point Module Running Current Test	2	01/06/2019	07/09/2019
Test 209	KVB Balise Test	1	01/09/2018	01/12/2018
Test 210	Electromagnetic Lock Test	3	07/12/2024	01/03/2025
Test 211	Phoenix MD Full Calibration Test	1	03/03/2018	31/05/2018
Test 212	Phoenix MD Accuracy Test	1	03/03/2018	31/05/2018
Test 230	Train Protection and Warning System (TPWS) Tests	4	04/03/2023	03/06/2023
Test 231	TPWS Module or Transmitter Loop Test (following failure)	2	05/12/2020	05/06/2021

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part B				
Test 232	TPWS Module or Transmitter Loop Test (following Pway Work)	2	05/12/2020	05/06/2021
Test 233	TPWS Self-Powered OSS (SPOSS) Trackside Equipment Test	1	01/06/2019	07/09/2019
Test 234	TPWS Failure Indication Unit (FIU) Test	1	01/06/2019	07/09/2019
Test 235	TPWS Buffer Stop Test	1	07/03/2020	06/06/2020
Test 251	DC Track Circuit Test	6	04/09/2021	04/12/2021
Test 253	EBI Track 200 (Audio Frequency) Track Circuit Test	5	01/09/2018	01/12/2018
Test 254	Track Circuit: SF15 / U Type Aster	4	05/12/2020	05/06/2021
Test 255	HVI (High Voltage Impulse) Track Circuit Test	4	04/09/2021	04/12/2021
Test 256	BR-WR Quick Release TC Test	2	03/03/2018	31/05/2018
Test 257	Reed Type RT Track Circuit Test	3	01/06/2019	07/09/2019
Test 258	Rectified AC TC Test	2	03/03/2018	31/05/2018
Test 259	FS 2600 Track Circuit Test	3	04/06/2022	03/09/2022
Test 260	50Hz AC Track Circuit Test	5	04/09/2021	04/12/2021
Test 261	Overlay Rail Circuit Test	3	03/03/2018	31/05/2018
Test 262	DC Coded Track Circuit Test	2	03/03/2018	31/05/2018
Test 263	EBI Track 400 Audio Frequency Track Circuit Test	4	01/09/2018	01/12/2018
Test 270	Facing Point Lock Tests (Unistar HR)	1	02/12/2023	02/03/2024
Test 271	Detection Test (Unistar HR)	1	02/12/2023	02/03/2024
Test 301	WR E10K Token System Test	2	01/06/2019	07/09/2019
Test 302	Signal Visibility Check	3	01/06/2019	07/09/2019
Test 305	Siemens Futur 2500 Type-F RBC Verification Test	1	06/12/2025	07/03/2026
Test 306	Cisco Switch - Reboot Procedure	1	06/12/2025	07/03/2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
Index	Index - Tasks	26	06/06/2026	05/09/2026
AP11	ATP Equipment (GWML)	2	03/03/2018	31/05/2018
AW11	Automatic Warning System (AWS)	8	05/12/2020	05/06/2021
AW15	Depot Test Magnets	2	05/12/2020	05/06/2021
AX00	Axle Counters General	7	04/09/2021	04/12/2021
AX11	Axle Counter AzL70	3	04/09/2021	04/12/2021
AX12	Axle Counter AzL70/30 and 70/30S	7	04/09/2021	04/12/2021
AX15	Axle Counter Thales AzLM	9	02/12/2023	02/03/2024
AX28	Siemens AzS ZP 43 D Wheel Detector Equipment	3	02/12/2023	02/03/2024
AX29	Siemens AzS ZP 43 V Wheel Detector Equipment	4	02/12/2023	02/03/2024
AX30	Siemens AzSM (E) Axle Counter Evaluator	3	03/03/2018	31/03/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
AX31	Siemens AzS 350U Axle Counter Evaluator	4	02/12/2023	02/03/2024
AX40	Frauscher Advanced Axle Counter	8	04/09/2021	04/12/2021
AX41	Frauscher: RSR123 Wheel Sensors	10	07/12/2024	01/03/2025
AX42	Frauscher Advanced Counter: Check on the IO-EXB	3	07/03/2020	06/06/2020
AX51	Siemens Axle Counter ACM 100 (ACM Module and WSD Wheel Detector)	3	03/03/2018	31/05/2018
AX99	Trains Entering Terminal Stations System (TETS)	1	03/03/2018	31/05/2018
BA11	TASS Balise	4	07/03/2020	06/06/2020
BA13	Cambrian ERTMS - Ansaldo Balise	4	07/03/2020	06/06/2020
BA16	KVB Balise	2	04/09/2021	04/12/2021
BR11	Swing Bridges	5	04/06/2022	03/09/2022
BR12	Swing Bridges - Banavie	2	04/06/2022	03/09/2022
BR20	Bridge Navigation Lights (Keadby - King George IV Bridge)	1	02/12/2023	02/03/2024
CA02	Air Main System	2	05/12/2020	05/06/2021
CE03	Battery Maintenance	2	04/06/2022	03/09/2022
CS02	Control System - TEMPL41	1	05/12/2020	05/06/2021
CS03	Control System - DM11	1	05/12/2020	05/06/2021
CS04	Control System - Delphin 1024/256	1	05/12/2020	05/06/2021
CS05	Control System - Sapphire T48	1	05/12/2020	05/06/2021
CS06	Control System - Modular Control System	1	05/12/2020	05/06/2021
CS07	Control System – MCS Infinity	1	07/06/2025	06/09/2025
DE11	Detonator Placer	3	05/12/2020	05/06/2021
EL00	Electrical Equipment - General	5	07/03/2020	06/06/2020
EL12	Platform Plungers and Pull Wires	4	04/09/2021	04/12/2021
EL13	Dispatch Interface Unit LED Indicators	1	04/09/2021	04/12/2021
EL21	Trackside Apparatus Case	15	04/03/2023	03/06/2023
EL31	Equipment and Relay Rooms	12	04/09/2021	04/12/2021
EL32	Electronic Equipment Cabinet	1	04/06/2022	03/09/2022
EL33	Ansaldo Interlocking - Equipment Rooms & Peripheral Locations	3	05/12/2020	05/06/2021
EL34	Siemens Signalling Systems	4	07/12/2024	01/03/2025
EL37	Location Case - Temperature Controlled Location (TCL)	1	03/03/2018	31/05/2018
ER00	Logging Systems - General	4	04/03/2023	03/06/2023
ER11	Instead Signalling Event Recorder	4	05/12/2020	05/06/2021
ER12	Westrix Signalling Event Recorder	1	03/03/2018	31/05/2018
ER15	ACIC Signalling Event Recorder	3	04/03/2017	31/05/2017
ER16	ADT Signalling Event Recorder	2	04/03/2017	31/05/2017
ER17	SA380 Signalling Event Recorder	4	06/12/2025	07/03/2026
ER21	DOS Based Trackwatch Data Logging System	3	04/03/2017	31/05/2017

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
ER22	Atlas Data Logging System	4	04/06/2022	03/09/2022
ER23	Relay ALERT Data Logging System	1	04/03/2017	31/05/2017
GF01	Ground Frames	5	04/09/2021	04/12/2021
IC00	VDU Based Control Equipment - General	8	04/09/2021	04/12/2021
IC11	Integrated Electronic Control Centre (IECC)	5	05/12/2020	05/06/2021
IC12	IECC Scalable	5	06/12/2025	07/03/2026
IC14	WestCad Control System	5	04/09/2021	04/12/2021
IC15	Siemens VICOS VDU Control System	2	05/12/2020	05/06/2021
IC16	WESTCAD - MCR	4	04/09/2021	04/12/2021
IC17	Signallers Assistant (TREsa)	5	04/03/2017	31/05/2017
IC18	ElectroLogIXS - Vital Logic Controller (VLC)	4	06/12/2025	07/03/2026
IC20	Westcad Level Crossing Touch Screen Device	1	01/09/2018	01/12/2018
IC51	Logger & Archiving System (Formerly GETS)	2	05/12/2020	05/06/2021
IC52	GE Standalone FTN unit	1	04/03/2017	31/05/2017
IC53	GE Leicester Keyboard/Trackerball unit	1	04/03/2017	31/05/2017
IC61	Rugby Whole Route Display System	2	05/12/2020	05/06/2021
IE00	Cambrian ERTMS - General	4	07/03/2020	06/06/2020
IE21	Cambrian ERTMS: Remote Object Controller Cabinet	3	04/06/2022	03/09/2022
IE22	Cambrian ERTMS: Radio Block Centre (RBC) Cabinet	3	04/06/2022	03/09/2022
IE23	Cambrian: Route Control Centre System (RCCS)	3	05/12/2020	05/06/2021
IE24	Cambrian ERTMS: Maintenance Aid Equipment (SAM)	3	04/06/2022	03/09/2022
IE25	Cambrian ERTMS: Interlocking Train Control System (SEI Cabinet)	3	04/06/2022	03/09/2022
IE26	Cambrian: Workstations	3	05/12/2020	05/06/2021
IE27	Cambrian: Ancillary Equipment	3	05/12/2020	05/06/2021
IE28	Cambrian ERTMS: Cambrian Applicative Training Simulator (CATS)	3	04/06/2022	03/09/2022
IE29	Ansaldo-STC Interlocking	3	07/03/2020	06/06/2020
IF01	Atlas 200 ETCS Radio Block Centre (RBC) and Maintenance Supervision System (MSS)	3	02/12/2023	02/03/2024
IF02	Atlas 200 ETCS - Enclosure and Balise	4	02/12/2023	02/03/2024
IF03	Atlas 200 ETCS Network Transmission Gateway	2	04/09/2021	04/12/2021
IG01	Thameslink Radio Block Centre (RBC) System	2	01/09/2018	01/12/2018
IG02	NCL Radio Block Centre (RBC) System	1	02/12/2023	02/03/2024
IK01	ARAMIS System Maintenance	2	07/03/2020	06/06/2020
IS00	Electronic Interlocking General	4	03/03/2018	31/05/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
IS11	Solid State Interlocking (SSI)	4	05/12/2020	05/06/2021
IS12	Westrace Electronic Interlockings	4	04/06/2022	03/09/2022
IS13	Westlock Electronic Interlocking	5	04/06/2022	03/09/2022
IS14	Smartlock Electronic Interlockings	3	04/09/2021	04/12/2021
IS15	Vital Harmon Logic Controller (VHLC)	3	01/09/2018	01/12/2018
IS20	Siemens SIMIS-W Interlocking	2	05/12/2020	05/06/2021
IS30	Harmon LX Predictor (HXP-3)	3	04/03/2023	03/06/2023
IS35	WRSL Level Crossing Predictor (GCP3000)	2	05/12/2020	05/06/2021
JA10	Signalling Network Switches	2	04/09/2021	04/12/2021
LC00	Level Crossings: General	6	07/03/2020	06/06/2020
LC09	Level Crossings with Obstacle Detection Equipment	5	05/12/2020	05/06/2021
LC10	Level Crossings Operational Sequences	5	07/03/2020	06/06/2020
LC11	Road Lights and Audible Warnings	9	07/03/2020	06/06/2020
LC14	Crossing Plungers, Control Units, and Pull Cords	2	07/03/2020	06/06/2020
LC15	Miniature Stop Light (MSL) & Warning Light (MWL) Units (including audible warnings where provided)	8	07/12/2024	01/03/2025
LC16	DCI Signals and Crossing Headlight Units	4	07/03/2020	06/06/2020
LC17	Barrow Crossing Light Units	3	05/12/2020	05/06/2021
LC20	Level Crossing – Automatic Half Barrier (Reliability – Centered Maintenance)	5	07/03/2020	06/06/2020
LC21	Barrier Machine BR Spec 843	10	07/06/2025	06/09/2025
LC22	EBI Gate 630 Barrier Machine	2	07/12/2024	01/03/2025
LC23	Rural Barrier - Machine Operated	3	05/12/2020	05/06/2021
LC24	Barrier Machine GWE	5	05/12/2020	05/06/2021
LC26	Barrier Machine WBS Style C	3	03/03/2018	31/05/2018
LC27	Barrier Machine NER Mechanical	3	03/03/2018	31/05/2018
LC29	Barrier Machine WR Style	6	01/06/2019	07/09/2019
LC30	Barrier Machine – S60	4	07/2/2024	01/03/2025
LC31	Barrier Machine: AHB Mk.1 (Penguin)	4	04/06/2022	03/09/2022
LC32	Barrier Machine: Newgate	1	01/06/2019	07/09/2019
LC50	Power Operated Gate Opener (POGO): Crossing Equipment	3	07/03/2020	06/06/2020
LC70	EBI Gate 200 Level Crossing System	5	05/12/2020	05/06/2021
LC71	Vamos Crossing System	4	04/06/2022	03/09/2022
LC72	EBI Gate 2000 Level Crossing System	1	03/03/2018	31/05/2018
LC73	Flex Crossing System	1	04/06/2022	03/09/2022
LC81	Level Crossing Gates	4	04/06/2022	03/09/2022
LC84	Automatic Gate Closer	2	06/06/2026	05/09/2026
LC85	Electromagnetic Locks	5	03/03/2018	31/05/2018
LC86	Fortress Key Locks	2	05/12/2020	05/06/2021

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
LC87	EDS Power Operated Sliding Barrier (POSB) Gates	2	06/06/2026	05/09/2026
LV00	Lever Frames, Lever Locks, & Circuit Controllers: General	5	05/12/2020	05/06/2021
LV11	Lever Frames – Non Specific	3	05/12/2020	05/06/2021
LV12	Lever Frame – Direct Locking	4	04/03/2023	03/06/2023
LV13	Lever Frame – Midland Railway Tumbler	4	05/12/2020	05/06/2021
LV14	Lever Frames – Tappet Locking	3	05/12/2020	05/06/2021
LV15	Lever Frames – LNWR Tumbler	4	05/12/2020	05/06/2021
LV16	Lever Frame – LNWR Tappet	4	05/12/2020	05/06/2021
LV17	Lever Frame: GWR Five Bar Vertical Tappet	3	05/12/2020	05/06/2021
LV21	Electric Locks	4	07/12/2024	01/03/2025
LV31	Circuit Controllers	5	05/12/2020	05/06/2021
LV41	Combined Lock & Circuit Controller	4	05/12/2020	05/06/2021
LV51	Key Release and Token Instruments	3	05/12/2020	05/06/2021
LV52	Single Line Staffs and Tokens	2	05/12/2020	05/06/2021
LV53	Token Instrument WR E10K	3	05/12/2020	05/06/2021
LV61	Token Instrument - DiBloC	1	07/06/2025	06/09/2025
LV99	Lever Frame Overhaul	4	06/06/2026	05/09/2026
MP01	Panel Multiplexer - TEMPL41 (AN)	1	05/12/2020	05/06/2021
MP02	Panel Multiplexer - WBS Type S2	1	05/12/2020	05/06/2021
MP03	Panel Multiplexer - Vaughan Harmon	1	05/12/2020	05/06/2021
MP04	Panel Multiplexer - GEC Type RM	1	05/12/2020	05/06/2021
MP05	Panel Multiplexer - GE	1	05/12/2020	05/06/2021
OD01	MCB-OD Radar Scanner	2	03/03/2018	31/05/2018
OD02	Redscan RLS-3060 LIDAR Scanner	5	04/03/2023	03/06/2023
PA00	Point Equipment General	5	04/03/2017	31/05/2017
PA01	Mechanical Points	6	04/09/2021	04/12/2021
PA21	Siemens Point Modules	2	05/12/2020	05/06/2021
PB00	Clamp Lock - General	2	07/03/2020	06/06/2020
PB11	Clamp Lock Hydraulic Points	13	07/06/2025	06/09/2025
PB15	Yard Points	4	05/12/2020	05/06/2021
PB16	Chairlock Points	4	05/12/2020	05/06/2021
PB17	JOSS Lock Points	3	04/03/2023	03/06/2023
PB18	Hydraulic Derailer: Type BRB 817	2	04/06/2022	03/09/2022
PB19	Mechanically Operated Derailer (Cambois, Keithley and Whitby)	1	02/12/2023	02/03/2024
PB21	Train Operated (Hydro-Pneumatic) Points	2	05/12/2020	05/06/2021
PC05	Point Machine HW Style	13	06/12/2025	07/03/2026
PC22	Point Machine MV-GRS Model 5 Style	6	06/12/2025	07/03/2026
PC31	Point Machine SGE Style HB	5	06/12/2025	07/03/2026
PC33	Point Machine SGE Style HA	7	06/12/2025	07/03/2026
PC41	Point Machine WRSL Style 63	8	06/12/2025	07/03/2026

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
PC42	Point Machine WRSL Styles M3 & M3A	7	06/12/2025	07/03/2026
PC49	WRSL AC Point Controllers	2	07/03/2020	06/06/2020
PC51	High Performance Switch System (HPSS)	7	01/06/2019	07/09/2019
PC61	Point Machine T72 with VCC Lock & Detection	2	05/12/2020	05/06/2021
PC81	Unistar HR Points	1	02/12/2023	02/03/2024
PC91	Point Machine WRSL Style CP & D Pneumatic	2	05/12/2020	05/06/2021
PC92	WRSL Hand and Air Points	2	05/12/2020	05/06/2021
PC95	Point Machine SGE Style VB Pneumatic	2	05/12/2020	05/06/2021
PD01	BR998 Detector	6	04/06/2022	03/09/2022
PD02	Electrical Point Detectors	5	05/12/2020	05/06/2021
PD03	Mechanical Detectors	2	05/12/2020	05/06/2021
PF01	Point Fittings	12	07/12/2024	01/03/2025
PF02	Mechanical Supplementary Drives	8	07/03/2020	06/06/2020
PF03	Point Fittings Switch Rollers	4	03/03/2018	31/05/2018
PF04	SO Hydraulic Supplementary point Drive System	2	04/03/2017	31/05/2017
PF05	Hydraulic Assist Drives	1	04/03/2017	31/05/2017
PF07	Torsion Operated Supplementary Drive	1	07/03/2020	06/06/2020
PF08	Dynamic Inspection of Point Operating Equipment	1	07/12/2024	01/03/2025
RC01	Remote Control System - Type R Reed FDM	1	05/12/2020	05/06/2021
RC02	Remote Control System - Type RR Reed FDM	1	05/12/2020	05/06/2021
RC03	Remote Control System - Westone FDM	1	05/12/2020	05/06/2021
RC04	Remote Control System - FDM69-NV	1	05/12/2020	05/06/2021
RC05	Remote Control System - Westplex	1	05/12/2020	05/06/2021
RC07	Remote Control System - GEC Type RM TDM	1	05/12/2020	05/06/2021
RC08	Remote Control System - WRSL Type TDM69	1	05/12/2020	05/06/2021
RC09	Remote Control System - WRSL Type S2	1	05/12/2020	05/06/2021
RC10	Remote Control System - Westronic F1 TDM	1	05/12/2020	05/06/2021
RC11	Remote Control System - Vaughan Harmon DM11	1	05/12/2020	05/06/2021
RC12	Remote Control System - Telecode TDM	1	05/12/2020	05/06/2021
RC13	Remote Control System - AP Datalink TDM	1	05/12/2020	05/06/2021
RC14	Remote Control System - Transmittion TDM	1	05/12/2020	05/06/2021
RC15	Remote Control System - DAM TDM	1	05/12/2020	05/06/2021
RC16	Remote Control System - Westronic 1024 TDM	2	06/06/2026	05/09/2026

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
RE01	Off Grid Power Supply - Photovoltaic (PV) Cells (Solar Panels)	1	05/12/2020	05/06/2021
RE02	Off Grid Power Supply – Miniature Wind Turbine Generator	1	05/12/2020	05/06/2021
RE20	Off Grid Power Supply - Direct Methanol Fuel Cell System	2	05/12/2020	05/06/2021
SB00	Signal Box Control & Operating Systems - General	2	05/12/2020	05/06/2021
SB11	Signallers Control & Indication Panels or Displays	6	05/12/2020	05/06/2021
SB12	Signal Box Operating Floor and Block Shelf	5	06/06/2026	05/09/2026
SB21	GraphXMaster CX50-100U Back Projection Unit	2	05/12/2020	05/06/2021
SG00	Signals: General	9	05/12/2020	05/06/2021
SG01	Signal Structures	1	04/09/2021	04/12/2021
SG02	Signal Post and Signal Box Replacement Switches	2	04/06/2022	03/09/2022
SG03	Signal Sighting - Cab Rides	3	04/06/2022	03/09/2022
SG05	Counter-Balanced Signal Support Posts	2	01/06/2019	07/09/2019
SG07	Main Colour Light Signals – Dorman Lite	5	04/06/2022	03/09/2022
SG08	LED Main Colour Light Signals - VMS	3	07/03/2020	06/06/2020
SG09	Main Colour Light Signal - Integrated Lightweight Signal (iLS)	5	04/06/2022	03/09/2022
SG10	Main Colour Light Signals - LED	6	06/12/2025	07/03/2026
SG11	Main Colour Light Signal - Filament Type Head	13	06/12/2025	07/03/2026
SG12	Semaphore Signals	8	05/12/2020	05/06/2021
SG13	Electro-Mechanical Banner Repeater Signal	7	07/03/2020	06/06/2020
SG14	Position Light Signal	7	04/06/2022	03/09/2022
SG15	Position Light Junction Indicator	7	05/12/2020	05/06/2021
SG16	Alphanumeric Route Indicators – SARI & MARI (Filament & Fibre Optic)	6	04/03/2023	03/06/2023
SG17	Alphanumeric Route Indicators – LED SARI & MARI	4	04/03/2023	03/06/2023
SG18	Indicators Signals	3	07/03/2020	06/06/2020
SG19	Banner Repeater Signal - Filament Type Head	4	07/12/2024	01/03/2025
SG20	Reflective Boards & Signs	7	04/03/2017	31/05/2017
SG21	Signal Lens - Clean	3	02/12/2023	02/03/2024
SG22	Banner Repeater Signal - LED	3	05/12/2020	05/06/2021
SG90	Rock Fall Detection Apparatus - Pass of Brander	2	04/06/2022	03/09/2022
SG95	Semaphore Signal Machine (BP, GRS, & SGE)	2	05/12/2020	05/06/2021
SG96	Semaphore Signal Machine (WRSL)	2	05/12/2020	05/06/2021
SW01	Signalling Lockout (Staff Protection) System	4	04/09/2021	04/12/2021

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
SW02	Staff Annunciator / Warning system	3	03/03/2018	31/05/2018
SW03	Patrolman's Lockout Device	3	04/09/2021	04/12/2021
SW04	SATWS : SATWS/ATWS Fixed/Semi-fixed System	2	07/06/2025	06/09/2025
SW20	Emergency Pull Cable System	2	07/03/2020	06/06/2020
TC00	Track Circuits: General	5	05/12/2020	05/06/2021
TC02	Track Circuits: Overlay Track	4	05/12/2020	05/06/2021
TC03	Track Circuits: DC Low Voltage	5	04/06/2022	03/09/2022
TC04	Track Circuits: DC Medium Voltage	5	04/06/2022	03/09/2022
TC05	Track Circuits: DC Coded	2	05/12/2020	05/06/2021
TC06	Track Circuits: Reed Type RT	2	05/12/2020	05/06/2021
TC08	Track Circuits: 50Hz AC	4	06/12/2025	07/03/2026
TC09	Track Circuit: FS2600	1	04/03/2017	31/05/2017
TC10	Track Circuits: Aster SF15 / U Type	4	04/09/2021	04/12/2021
TC12	Track Circuits: HVI (High Voltage Impulse)	6	04/06/2022	03/09/2022
TC14	Track Circuits: Western Region Quick Release	2	05/12/2020	05/06/2021
TC15	Track Circuits: AC Rectified (Diode)	2	05/12/2020	05/06/2021
TC16	Track Circuits: EBI Track 200	6	02/12/2023	02/03/2024
TC17	Track Circuits: EBI Track 400	4	07/06/2025	06/09/2025
TC30	Track Circuits: Additional Bonding Check	3	04/12/2021	05/03/2022
TC91	Track Circuit Assister Interference Detector (TCAID)	7	04/06/2022	03/09/2022
TD00	Train Describers - General	2	05/12/2020	05/06/2021
TD11	Train Describer Electro-Mechanical	2	05/12/2020	05/06/2021
TD21	Train Describer Hewlett Packard 21MX Series	2	05/12/2020	05/06/2021
TD31	Train Describer Vaughan Type 4M	3	04/03/2017	31/05/2017
TD32	Train Describer Vaughan Small	3	05/12/2020	05/06/2021
TD33	Train Describer – Scottish Type	2	04/06/2022	03/09/2022
TD35	Train Describer WRSL VME Bus Based	4	07/12/2024	01/03/2025
TD36	Train Describer WRSL Small Bus Based (STD)	2	05/12/2020	05/06/2021
TD37	Train Describer GEC/GS Micro Processor Based	2	01/09/2018	01/12/2018
TD38	GE PC based Small Train Describer	1	04/03/2017	31/05/2017
TD40	Train Describer GETS Dual	2	05/12/2020	05/06/2021
TD42	GE Automatic Code Insertion (ACI) Terminal	3	05/12/2020	05/06/2021
TP00	Train Protection & Warning System (TPWS) General	11	04/09/2021	04/12/2021
TP11	Train Protection & Warning System (TPWS)	9	01/06/2019	07/09/2019
TP22	TPWS Trackside Radio Control Unit (TRCU)	2	05/12/2020	05/06/2021
TP23	TPWS Lineside Status Indicator (LSI)	3	03/03/2018	31/05/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part C				
TQ00	Treadles - General	6	05/12/2020	05/06/2021
TQ01	Treadles – Mechanical	5	05/12/2020	05/06/2021
TQ11	FREDDY Sensor (Electronic Treadle)	2	05/12/2020	05/06/2021
TQ12	SEL/AzL Electronic Treadle	2	05/12/2020	05/06/2021
TQ13	Siemens Wheel Sensor	2	05/12/2020	05/06/2021
TQ14	Alstom Electronic Treadle System (ETS)	5	06/06/2026	05/09/2026
TS01	Electro-Hydraulic Trainstop	2	05/12/2020	05/06/2021
TS02	Tripcock Tester	3	05/12/2020	05/06/2021
TS03	Electro-Pneumatic Trainstops and Associated Air Valves	4	05/12/2020	05/06/2021
TS04	Tripcock Tester - Merseyrail & Euston Area	1	07/06/2025	06/09/2025
TS20	Indusi Trainstops (Tyne-Wear Metro)	2	05/12/2020	05/06/2021
TS21	JE Style Trainstop	1	03/03/2018	31/05/2018
TS22	Train Stops (Manchester Metro)	2	07/03/2020	06/06/2020
TS23	Wheel Stop	1	01/09/2018	01/12/2018
TV01	Level Crossing CCTV Analogue Systems	5	05/12/2020	05/06/2021
TV02	Level Crossing CCTV Digital Systems	2	05/12/2020	05/06/2021
TV03	Tail Lamp CCTV Digital Systems	2	05/12/2020	05/06/2021
TW01	Airport Trip Wires	3	07/03/2020	06/06/2020
TW02	Airport Trip Wires – Scotland	2	04/06/2022	03/09/2022
TW03	Chalk Fence Trip Wires – Kent	1	07/06/2025	06/09/2025
VS30	Vehicle Identification System	1	04/06/2022	03/09/2022

Heading	Title	Iss No.	Issue Date	Compliance Date
Part D				
Index	Index - Level Crossing Annual Tests	17	06/12/2025	07/03/2026
LX70	Automatic Half Barrier Crossing (AHBC)	7	05/12/2020	05/06/2021
LX70-1	Automatic Half Barrier (AHBC) - RCM	4	04/06/2022	03/09/2022
LX71	Automatic Barrier Crossing Locally Monitored (ABCL) and Automatic Full Barrier Crossing Locally Monitored (AFBCL)	8	05/12/2020	05/06/2021
LX72	Automatic Open Crossing Locally Monitored (AOCL)	6	07/03/2020	06/06/2020
LX73	Automatic Open Crossing Remotely Monitored (AOCR)	6	07/03/2020	06/06/2020
LX74	Miniature Stop Light Crossing (MSL)	6	07/03/2020	06/06/2020
LX75	Manually Controlled Barriers (MCB)	8	05/12/2020	05/06/2021
LX76	On Call Barriers (OCB)	6	06/12/2025	07/03/2026
LX77	EBI Gate 200 Level Crossing System	3	07/03/2020	06/06/2020
LX78	VAMOS Level Crossing System	3	04/06/2022	03/09/2022
LX79	Flex Level Crossing System	1	04/06/2022	03/09/2022
LX80	Automatic Half Barrier (AHBC) - With Level Crossing Predictor	6	05/12/2020	05/06/2021

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part D				
LX81	Miniature Stop Light Crossing (MSL) - Using A Level Crossing Predictor	3	07/03/2020	06/06/2020
LX83	Automatic Open Crossing Locally Monitored + Barriers	5	07/12/2024	01/03/2025
LX94	Miniature Stop Light Crossing (MSL) - (RCM)	5	04/06/2022	03/09/2022

Heading	Title	Iss No.	Issue Date	Compliance Date
Part E				
Index	Index - Assets other than Signalling	12	04/06/2022	03/09/2022
BA12	Platform Identification Beacon System (PIBS)	3	04/03/2017	31/05/2017
HO00	HABD General	2	04/03/2017	31/05/2017
HO11	HABD Equipment - FÜES Mark 1	3	05/12/2020	05/06/2021
HO12	HABD Phoenix MB	3	03/03/2018	31/05/2018
HO13	Hot Axle Box Detector - EPOS	1	04/09/2021	04/12/2021
HO14	Hot Axle Box Detector - Wheel Sensor	2	04/06/2022	03/09/2022

Heading	Title	Iss No.	Issue Date	Compliance Date
Part L				
Index	Index - Local Instructions	15	06/06/2026	05/09/2026
LP100	Ipswich	7	06/12/2025	07/03/2026
LP101	Tottenham	6	06/12/2025	07/03/2026
LP102	Romford	6	06/12/2025	07/03/2026
LP201	Sussex	7	02/12/2023	02/03/2024
LP202	Kent	7	02/12/2023	02/03/2024
LP251	Preston	9	06/12/2025	07/03/2026
LP252	Warrington	7	06/12/2025	07/03/2026
LP253	Carlisle	12	06/12/2025	07/03/2026
LP254	Liverpool	8	06/12/2025	07/03/2026
LP255	Manchester	6	06/12/2025	07/03/2026
LP300	Birmingham	6	06/12/2025	07/03/2026
LP350	LNE and EM	10	06/12/2025	07/03/2026
LP351	Middlesbrough, Sheffield, Leeds and York	2	07/06/2025	06/09/2025
LP400	Cardiff	14	06/12/2025	07/03/2026
LP401	Shrewsbury	7	06/12/2025	07/03/2026
LP450	Wessex	7	02/12/2023	02/03/2024
LP500	Reading	7	06/06/2026	05/09/2026
LP501	Swindon	2	02/12/2023	02/03/2024
LP502	Bristol	9	06/12/2025	07/03/2026
LP503	Plymouth	15	06/12/2025	07/03/2026
LP550	Scotland	8	07/12/2024	01/03/2025

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part R				
Index	Index - Maintenance Record Cards	17	06/12/2025	07/03/2026
AP11	ATP Equipment (GWML)	1	01/12/2009	01/06/2010
AW11 RC01	AWS Test - Electro / Permanent	3	01/09/2018	01/12/2018
AW11 RC02	AWS Test - Electro / Suppressor	3	01/09/2018	01/12/2018
AW11 RC03	AWS Test - Permanent Magnet Only	2	01/09/2018	01/12/2018
AX28 RC01	Siemens Axle Counter: AzS ZPD 43 Wheel Detector Equipment	2	02/12/2023	02/03/2024
AX29 RC01	Siemens Axle Counter: AzS ZP 43 V Wheel Detector Equipment	3	02/12/2023	02/03/2024
AX30 RC01	Siemens Axle Counter – AzSM (E) Evaluator	3	04/06/2022	03/09/2022
AX31 RC01	Siemens Axle Counter: AzS 350U Evaluator	2	02/12/2023	02/03/2024
AX40-41 RC01	Wheel Sensor – RSR 123	1	05/12/2020	05/06/2021
AX51 RC01	Siemens Axle Counter ACM 100, WSD Wheel Detector	1	03/03/2018	31/05/2018
AX99 RC01	TETS Record Card	1	03/03/2018	31/05/2018
CS02 RC01	Control System: TEMPL41	1	05/12/2020	05/06/2021
CS03 RC01	Control System: GETS DM11	1	05/12/2020	05/06/2021
CS04 RC01	Control & Interface System: GETS Delphin 1024	1	05/12/2020	05/06/2021
CS05 RC01	Control & Interface System: GETS Sapphire T48	1	05/12/2020	05/06/2021
EL21 - EL31 RC01	Wiring Degradation Record Card	1	01/08/2004	30/06/2005
EL21 - EL31 RC02	Relay Plugboard Checks	1	01/08/2004	30/06/2005
EL21 RC01	Site Attendance Record Card - Location Case	2	01/09/2018	01/12/2018
EL31 RC01	Site Attendance Record Card - Site Equipment Room	3	01/09/2018	01/12/2018
EL34 RC01	Site Attendance Record Card - Modular Equipment Housing	1	07/06/2025	06/09/2025
ER11 RC01	Instead Signalling Event Recorder	1	01/08/2004	30/06/2005
HO11 RC01	HABD Equipment: GETS FÜES	1	01/04/2006	31/12/2006
HO12 RC01	HABD Equipment: Phoenix MB Sensor Temperature	1	03/03/2018	31/05/2018
IE29 RC01	Ansaldo-STS Interlocking System Colour Light Signalling System (SEI-CLSS)	1	03/03/2018	31/05/2018
IR11 RC01	RETB Fixed Station	1	01/08/2004	30/06/2005
IS15 RC01	Vital Harmon Logic Control	2	01/09/2018	01/12/2018
IS30 RC01	Harmon Crossing Processor (HXP-3)	1	05/12/2020	05/06/2021
IS35 RC01	WESTeX LCP3000 Crossing Predictor	1	01/12/2016	01/12/2016
LC09 RC01	Optex Redscan RLS3060 series LIDAR Record Card	3	07/03/2020	06/06/2020

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part R				
LC50 T084 RC01	Power Operated Gate Opener (POGO)	1	06/09/2014	07/03/2015
LV11 - LV17 RC01	Lever Frame	1	01/08/2004	30/06/2005
MP01 RC01	SSI Panel Multiplexer: TEMPL41 (AN)	1	05/12/2020	05/06/2021
MP02 RC01	SSI Panel Multiplexer: WBS Type S2	1	05/12/2020	05/06/2021
MP03 RC01	SSI Panel Multiplexer: Vaughan Harmon	1	05/12/2020	05/06/2021
MP04 RC01	SSI Panel Multiplexer: GEC Type RM	1	05/12/2020	05/06/2021
PB18 RC01	Hydraulic Derailer	2	06/09/2014	07/03/2015
PF01 RC01	Point Fittings	3	05/12/2020	05/06/2021
PTS RC01	Point System (Hydraulic Pneumatic)	3	01/09/2018	01/12/2018
PTS RC02	Point System (Machine)	3	04/09/2021	04/12/2021
PTS RC03	Point System (Mechanical)	2	01/09/2018	01/12/2018
PTS RC04	Point System (HPSS)	3	01/09/2018	01/12/2018
PTS RC05	Point System Operating Current	2	01/09/2018	01/12/2018
PTS RC06	Point System Unistar HR	1	02/12/2023	02/03/2024
RC01 RC01	RC System: Type 'R' Reed FDM Test	1	05/12/2020	05/06/2021
RC01 RC02	Reed Point Detection (Transmitter)	1	05/12/2020	05/06/2021
RC01 RC03	Reed Point Detection (Receiver)	1	05/12/2020	05/06/2021
RC02 RC01	RC System: GEC Type 'RR' Reed FDM Test	1	05/12/2020	05/06/2021
RC03 RC01	RC System: Westone Non-Vital FDM Test	1	05/12/2020	05/06/2021
RC04 RC01	RC System: FDM69-NV Test	1	05/12/2020	05/06/2021
RC05 RC01	Siemens Westplex	1	05/12/2020	05/06/2021
RC07 RC01	RC System: GEC Type RM TDM Test	1	05/12/2020	05/06/2021
RC08 RC01	RC System: WBS Type TDM 69 Test	1	05/12/2020	05/06/2021
RC09 RC01	RC System: WBS Type S2 TDM Test	1	05/12/2020	05/06/2021
RC10 RC01	RC System: Westronic F1 TDM Test	1	05/12/2020	05/06/2021
RC11 RC01	RC System: Vaughan Harmon Type DM11 Test	1	05/12/2020	05/06/2021
RC12 RC01	RC System: Telecode 80 Test	1	05/12/2020	05/06/2021
RC13 RC01	RC System: AP Datalink TDM Test	1	05/12/2020	05/06/2021
RC16 RC01	RC System: Westronic 1024 TDM Test	1	05/12/2020	05/06/2021
SW20 T059 RC01	Severn Tunnel Pull Wire	2	01/04/2006	31/12/2006
T021 RC01	Junction Indicator and Position Light Signal - All Types	2	01/09/2018	01/12/2018
T021 RC02	Route Indicator - non LED	2	01/09/2018	01/12/2018
T021 RC03	Route Indicator - LED	2	01/09/2018	01/12/2018
T021 RC04	Signal - (Filament / Light Engine)	5	01/06/2019	07/09/2019
T021 RC05	Signal - LED	3	01/06/2019	07/09/2019
T021 RC06	Signal SMIS type	2	01/09/2018	01/12/2018
T026 RC01	Trainstop (Electro-Hydraulic) Calibration	1	01/08/2004	30/06/2005
T041 RC01	IRJ - DC & BR-WR Quick Release TC	2	01/09/2018	01/12/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part R				
T041 RC02	IRJ - DC & BR-WR Quick Release TC	2	01/09/2018	01/12/2018
T042 RC01	Axle Counter AzL70 Evaluator Single Rail Contacts	2	03/03/2018	31/05/2018
T042 RC02	Axle Counter AzL70 Evaluator Double Rail Contacts	1	03/03/2018	31/05/2018
T042 RC03	Axle Counter AzL70/30 Evaluator EAK30 Junction Box	1	03/03/2018	31/05/2018
T043 RC01	Track Circuit Aid (TCAID)	1	01/08/2004	30/06/2005
T044 RC01	Treadle Timing & Adjustment	4	01/06/2019	07/09/2019
T045 RC01	AzLM & AzLE Axle Counters	5	01/09/2018	01/12/2018
T046 RC01	Level Crossing CCTV Camera	1	01/08/2004	30/06/2005
T047 RC01	CCTV HF Tx System (Marconi/GEC 14.5MHz AM)	2	01/09/2018	01/12/2018
T047 RC02	CCTV HF Tx System (Philips FM)	2	01/09/2018	01/12/2018
T051 RC01	AC Busbar & Earth Test	2	01/09/2018	01/12/2018
T051 RC02	DC Busbar & Earth Test	2	01/09/2018	01/12/2018
T052 RC01	Dynamic Earth Test (Power Worked Points)	2	01/09/2018	01/12/2018
T052 RC02	Dynamic Earth Test (Level Crossing Barriers)	2	01/09/2018	01/12/2018
T053 RC01	Earth Leakage Detector Tests	2	01/06/2019	07/09/2019
T053 RC02	IR425 Record Card	1	07/03/2020	06/06/2020
T054 RC01	Cable Insulation Test	4	07/06/2025	06/09/2025
T054 RC02	Non-Intrusive Earth Test for FDM systems (method A)	3	01/09/2018	01/12/2018
T054 RC03	Non-Intrusive Earth Test for FDM systems (method B)	2	01/09/2018	01/12/2018
T055 RC01	Secondary Cell Test ALCAD - Vantage	2	01/09/2018	01/12/2018
T055 RC02	Secondary Cell Test - Cyclon	3	01/09/2018	01/12/2018
T055 RC03	Secondary Cell Test Lead Acid / Alkaline	3	01/09/2018	01/12/2018
T055 RC04	Secondary Cell Test Power Box - Modular	1	01/09/2018	01/12/2018
T056 RC01	Avel-Lindberg Static Inverter	1	01/08/2004	30/06/2005
T057 RC01	Uninterruptible Power Supply (Not TPWS UPS)	2	01/09/2018	01/12/2018
T057 RC02	Uninterruptible Power Supply (For TPWS Only)	2	01/09/2018	01/12/2018
T058 RC01	Primary Cells	1	01/08/2004	30/06/2005
T060 RC01	Emergency Signals On Control (ESOC)	1	01/08/2004	30/06/2005
T061 RC01	Relay Timers	2	01/09/2018	01/12/2018
T062 RC01	Line Protection Units	1	01/08/2004	30/06/2005
T063 RC01	RETB Radio Systems – Regular Tasks	2	03/03/2018	31/05/2018
T063 RC02	RETB Radio Systems – Service A	2	03/03/2018	31/05/2018
T063 RC03	RETB System (Six Monthly)	1	01/08/2004	30/06/2005
T064 RC01	RETB Fixed Site Power Supply Test – Service A	2	03/03/2018	31/05/2018

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part R				
T064 RC02	RETB Fixed Site Power Supply Test – Service B	2	03/03/2018	31/05/2018
T065 RC01	RETB Fixed Site Antenna Systems – Service A	2	03/03/2018	31/05/2018
T065 RC02	RETB Fixed Site Antenna Systems – Service B	2	03/03/2018	31/05/2018
T066 RC01	RETB Fixed Site Radio and Interface Equipment (Pre-Site Visit)	2	03/03/2018	31/05/2018
T066 RC02	RETB Fixed Site Radio and Interface Equipment– Service A	2	03/03/2018	31/05/2018
T066 RC03	RETB Fixed Site Radio and Interface Equipment– Service B	2	03/03/2018	31/05/2018
T089 RC01	SSI Datalinks Health Check	1	01/08/2004	30/06/2005
T089 RC02	SSI Datalinks Baseband / LDT	1	01/08/2004	30/06/2005
T251 RC01	Track Circuit Tests - DC Track	4	01/09/2018	01/12/2018
T253 RC01	Track Circuit Tests - ET200 (M)	6	01/09/2018	01/12/2018
T253 RC02	Track Circuit Tests - ET200 (F)	6	01/09/2018	01/12/2018
T254 RC01	Track Circuit Tests - SF15 / Aster U	5	07/03/2020	06/06/2020
T255 RC01	Track Circuit Tests - HVI	4	01/09/2018	01/12/2018
T256 RC01	Track Circuit Tests - BR-WR Quick Release	4	01/09/2018	01/12/2018
T257 RC01	Track Circuit Tests - Reed Type RT	4	01/09/2018	01/12/2018
T258 RC01	Track Circuit Tests - Rectified AC (Diode)	4	01/09/2018	01/12/2018
T259 RC01	Track Circuit Tests - FS2600	4	01/09/2018	01/12/2018
T260 RC01	Track Circuit Tests - 50Hz AC	6	06/12/2025	07/03/2026
T261 RC01	Track Circuit Tests - Rail Circuit	4	01/09/2018	01/12/2018
T262 RC01	Track Circuit Test - DC Coded	3	01/09/2018	01/12/2018
T263 RC01	Track Circuit Tests - EBI Track 400 (M)	6	01/09/2018	01/12/2018
T263 RC02	Track Circuit Tests - EBI Track 400 (OL)	6	01/09/2018	01/12/2018
T263 RC03	Track Circuit Tests - EBI Track 400 (SA)	6	01/09/2018	01/12/2018
T302 RC01	Signal Visibility Check	2	01/09/2018	01/12/2018
TD11 RC01	Train Describer - Electro Mechanical	1	01/08/2004	30/06/2005
TD21 RC01	Train Describer - HP21MX 2100 Series	1	01/08/2004	30/06/2005
TD21 RC02	Train Describer - HP21MX 2108 Series	1	01/08/2004	30/06/2005
TD31 RC01	Train Describer - Vaughan Type 4M	1	01/08/2004	30/06/2005
TD32 RC01	Train Describer - Vaughan Type Small (Ex BR-WR)	1	01/08/2004	30/06/2005
TD37 RC01	Train Describer - GEC/GE Micro Processor Based	1	01/08/2004	30/06/2005
TD40 RC01	Train Describer - GETS Dual (NS)	1	01/08/2004	30/06/2005
TP11 RC01	Equipment Associated with Signals	2	01/12/2009	01/06/2010
TP11 RC02	Equipment Associated with PSR's & Buffer Stop	1	01/08/2004	30/06/2005
TP11 RC03	Self Powered OSS (SPOSS)	1	01/08/2004	30/06/2005
TP11 RC04	OSS+ Loops at TPWS+ Installations	2	07/03/2020	06/06/2020

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part R				
TS20 RC01	Indusi Train Stops Magnetic Train Stop Associated with Stop Signals	1	01/12/2009	01/06/2010
TS20 RC02	Indusi Train Stops Magnetic Train Stop Associated with Speed Control	1	01/12/2009	01/06/2010
TS22 RC01	Trainstop - Manchester Metro	1	03/03/2018	31/05/2018

Heading	Title	Iss No.	Issue Date	Compliance Date
Part T				
Index	Index - Telecoms Assets	9	04/06/2022	03/09/2022
CA11	Pole Routes	2	04/09/2021	04/12/2021
IR00	Radio Electronic Token Block (RETB) - General	5	03/03/2018	31/05/2018
IR11	RETB Signal Box	5	03/03/2018	31/05/2018
IR12	RETB Fixed Station	5	03/03/2018	31/05/2018
TE01	Operational Telephones	1	04/06/2022	03/09/2022
TE02	Inspection and Minor Maintenance of Lineside S&T Cable Routes	1	04/06/2022	03/09/2022

Heading	Title	Iss No.	Issue Date	Compliance Date
Part Z				
Index	Index – Reference Values	19	06/06/2026	05/09/2026
Z01	Signal - Reference Values	12	02/12/2023	02/03/2024
Z02	Point - Reference Values	13	06/06/2026	05/09/2026
Z03	Train Detection - Reference Values	11	07/06/2025	06/09/2025
Z04	Level Crossing - Reference Values	5	07/03/2020	06/06/2020
Z05	Cable - Reference Values	5	07/03/2020	06/06/2020
Z06	Cell - Reference Values	2	07/03/2020	06/06/2020
Z07	Earth Leakage - Reference Values	3	05/12/2020	05/06/2021
Z08	Train Protection - Reference Values	1	07/03/2020	06/06/2020

Heading	Title	Iss No.	Issue Date	Compliance Date
Part - Appendix				
Index	Index - SMS Appendixes	15	06/06/2026	05/09/2026
Appendix 01	General Information on the Siemens Axle Counter Systems	5	03/03/2018	31/05/2018
Appendix 02	General Information on Ansaldo Signalling Equipment	2	05/03/2016	04/06/2016
Appendix 03	General Information on Level Crossing Equipment	3	07/03/2020	06/06/2020
Appendix 04	How to Set up Schwihag Rollers	3	03/03/2018	31/05/2018
Appendix 05	General information on Mil Spec 5015 Plug Couplers	2	04/06/2022	03/09/2022
Appendix 06	Unipart: Plug & Play "Break Out Box" Guidance Notes	2	04/06/2022	03/09/2022

Ref:	NR/L3/SIG/10663
Issue:	21
Date:	06 June 2026
Compliance date:	05 September 2026

Heading	Title	Iss No.	Issue Date	Compliance Date
Part - Appendix				
Appendix 07	General information on Frauscher advanced Axle Counter	3	05/12/2020	05/06/2021
Appendix 08	General information on EBI 200 Audio Frequency Track Circuit Equipment	4	01/06/2019	07/09/2019
Appendix 09	General Information on EBI Gate 200 Level Crossing System	3	07/03/2020	06/06/2020
Appendix 10	General information on EBI Track 400 Audio Frequency Track Circuit Equipment	4	02/12/2023	02/03/2024
Appendix 11	General information on Siemens Westlock interlocking and zone controller	3	04/06/2022	03/09/2022
Appendix 12	General information on DC Coded Tracks	2	04/06/2022	03/09/2022
Appendix 13	General information on Siemens ACM100 System	2	03/03/2018	31/05/2018
Appendix 15	General Information on the Thales Axle Counter Systems	2	02/12/2023	02/03/2024
Appendix 16	General information on HXP-3	1	03/03/2018	31/05/2018
Appendix 17	General Information relating to the Thameslink Radio Block Centre	2	01/09/2018	01/12/2018
Appendix 18	General Information on the JE Style Trainstop	1	03/03/2018	31/05/2018
Appendix 19	General Information on the ARAMIS System	2	07/03/2020	06/06/2020
Appendix 20	General Information on EBI Gate 2000 Level Crossing System	1	03/03/2018	31/05/2018
Appendix 21	Ansaldo-STC Interlocking System Colour Light Signalling System (SEI-CLSS)	2	01/06/2019	07/09/2019
Appendix 22	General Information on the ElectrologIXS System	2	07/06/2025	06/09/2025
Appendix 23	General Information on the KVB Test Set	1	01/09/2018	01/12/2018
Appendix 24	General Information on the Newgate Barrier System	1	01/06/2019	07/09/2019
Appendix 25	General Information on the Cambrian Balises	1	07/03/2020	06/06/2020
Appendix 26	General Information on the Direct Methanol Fuel Cell System	1	07/03/2020	06/06/2020
Appendix 27	General Information on the Siemens WSD Wheel Detector	1	07/03/2020	06/06/2020
Appendix 28	General Information on Programming Balises	2	06/06/2026	05/09/2026
Appendix 30	General information on Instead Data Loggers	1	04/09/2021	04/12/2021
Appendix 31	General Information on the FUES – EPOS Hot Axle Box Detector	1	04/09/2021	04/12/2021
Appendix 32	Style 63 Point Machine Circuit Controller Replacement	1	04/09/2021	04/12/2021
Appendix 36	General Information on the NCL Radio Block Centre (RBC) System	1	02/12/2023	02/03/2024

END

Standard and control document briefing note

Ref: NR/L3/SIG/10663	Issue: 21
Title: Signal Maintenance Specifications	
Publication date: 06 June 2026	Compliance Date: 05 September 2026
Standard/Control Document Owner: Network Technical Head Signalling	
Standard change lead/contact for briefings: Chris Cresswell	Tel: 07702 914534

Purpose:

This document contains the index to the Signal Maintenance Specifications (NR/SMS) for signalling equipment on Network Rail Managed Infrastructure (NRMI).

Scope:

This document applies to all staff who carry out corrective or preventative maintenance to signalling equipment on NRMI.

What's new, what's changed and why:

New documents / modules have been added to support new equipment introduced onto NRMI. Documents / modules have been amended as part of continuous improvement because of changes to equipment, changes in procedures and feedback from end users. A summary table below gives the high-level numbers of documents / modules. The table below gives a summary of the changes.

Type of Change	Number of Documents
Amend	11
New	0
Withdrawn	2
Total	13

Detail of change:

Module(s)	Name	Summary of changes
Amend		
NRSMS PartA A03	Definitions	Check for tightness definition added and Header corrected.
NRSMS PartB 045	Thales Axle Counter Dummy Wheel Test (AzLM)	SMS Test 45 has been updated to include the new universal board.
NRSMS PartC LC84	Automatic Gate Closer	Updated to include the Samson gate closer.
NRSMS PartC LC87	EDS Power Operated Sliding Barrier (POSB) Gates	Redcar removed from title as gates have now been installed at Nunthorpe.
NRSMS PartC LV99	Lever Frame Overhaul	To allow MELF lever frame overhauls to be scheduled as smaller sub-tasks which reflect the reality of how the work is undertaken.
NRSMS PartC RC16	Remote Control System - Westronic 1024 TDM	Battery change removed from B service and added to a new PT service.
NRSMS PartC SB12	Signal Box Operating Floor and Block Shelf	This update addresses Craven Arms recommendation A8.2.
NRSMS PartC TQ14	Alstom Electronic Treadle System (ETS)	Output of work with Alstom around reliability practices not incorporated in TQ14.
NRSMS PartL LP500	The Signal Maintenance "As Directed Policies" – Reading STME (Reading/Slough)	Update to Reading Local Policy LP500.
NRSMS PartZ Z02	Point - Reference Values	This update address reliability issues and aligns with recommendations from TIC report 24049.
NRSMS Appendix 28	General Information on Programming Balises	Updated for clarity, also includes new information for Siemens Mobile Device (web version) and Ansaldo 2nd-Gen Programming.
Withdrawn		
NRSMS PartA A13	Reinstating Flooded or Water Affected Equipment	GI M005 has been introduced following lessons learnt from recent flooding events this new document replaces the withdrawn SMS Part A A13
NRSMS PartB 300	Testing Requirements Following Flooding	SMTH Part 5 Module 23 has been introduced following lessons learnt from recent flooding events this new document replaces the withdrawn SMS Part B Test 300.

Affected documents

Reference	Issue	Impact	Document type
NR/L3/SIG/10663	20	Superseded	Standard
NR/SMS/Part/A	16	Superseded	Module
NR/SMS/Part/B	22	Superseded	Module
NR/SMS/Part/C	25	Superseded	Module
NR/SMS/Part/L	14	Superseded	Module
NR/SMS/Part/Z	18	Superseded	Module
NR/SMS/Part/ Appendix	14	Superseded	Module

Briefing requirements:

Briefings are given to those who have specific responsibilities within, or are directly affected by, this standard/control document.

A copy of briefings may be available from the Standards & Controls site.

Requirements to cascade briefings are described within any implementation plans.

Briefing (O-Overview/ D-Detailed)	Post	Function	Responsible for cascade briefing? Y/N
O	Chief Control, Comm & Signalling Engineer	Technical Authority	N
O	Network Technical Head Switches & Crossings	Technical Authority	Y
D	Regional Engineer [Signalling & Telecoms]	Regions (Eastern)	Y
D	Regional Asset Manager [Signalling]	Regions (Scotland)	Y
D	Regional Engineer [Signalling & Telecoms]	Regions (NW & C)	Y
D	Regional Engineer [CCS]	Regions (Western & Wales)	Y
D	Regional Engineer [Signalling & Telecoms]	Regions (Southern)	Y
D	Workforce Development Specialist	Route Services	N
Briefing (O-Overview/ D-Detailed)	Role	Function	Responsible for cascade briefing? Y/N
O	CCS Engineer	Technical Authority	N
O	S&C Engineer	Technical Authority	N
D	Route Engineer (Signalling)	Regions	Y
D	Asset Engineer	Regions	N
D	SINCS Engineer	Regions	N
D	Signal & Telecoms Maintenance Engineer	Regions (Maintenance)	Y
D	Section Manager (Signals)	Regions (Maintenance)	Y
D	Signalling Technical Support Staff	Regions (Maintenance)	N
O	S&T Maintenance Test Engineer	Regions (Maintenance)	N
D	SINCS Engineer	Regions (Maintenance)	N
D	Signals Team Leader	Regions (Maintenance)	N
D	Technician (Signalling)	Regions (Maintenance)	N
D	Operative (Signalling)	Regions (Maintenance)	N
D	Works Delivery Manager (Signals)	Regions (Works Delivery)	Y
D	Works Delivery Supervisor (Signals)	Regions (Works Delivery)	N
D	Technician	Regions (Works Delivery)	N
D	Operative	Regions (Works Delivery)	N

NOTE: Contractors are responsible for arranging and undertaking their own Detailed and Overview Briefings in accordance with their own processes and procedures.