

Details of Standard				SME Category	Initial Filtering				Clause by Clause Analysis (where applicable)				Priority
Signalling Standard Number	Title	Issue	Compliance Date		ETCS	TM	CDA S	Detail Review Required	Section	Description of issue	Changes required	GAP in Standards	
Category 1 Standards: Scheme Development - Design													
NR/GN/SIG/14202	Prevention and Mitigation of Overruns - Risk Assessment of Signals (Formerly RT/E/G/14202)	2	26/08/2008	1	Y	Y	N	Y	General	Non-mandatory guidance note. Might need amending to reflect any updates to NR/L2/SIG/14201. Also refers only to signals not Limits of Movement Authority	Expand to add "Limit of Movement Authority" or similar where Signals are mention, and as required by NR/L2/SIG/14201	Alter standard to include ETCS as a train protection option instead of TPWS. Do we need as detailed a risk assessment process if full ATP is applied?	1
NR/L2/INF/02018	Specification for the Management of Safety Related Infrastructure Record	6	05/03/2011	1	Y	N	N	Y	See below.	Needs to describe or reference new standard on how geographic infrastructure data for RBCs and other Digital Railway equipment will be managed.	See below.	See below.	2
					N	N	N		Section 1	N/A	No change.	N/A	N/A
					Y	N	N		Sections 2 & 3	Standard does not cover requirements for ensuring geographic data records of infrastructure, configured in safety critical RBCs, remain accurate and up to date.	Exclude Digital Rail data records from scope and reference new Digital Railway data management standard.	Requirements and process for managing geographic data used by Digital Railway technologies.	N/A
					N	N	N		Sections 4 - 6 & Appendices A, B, C, D & E	N/A	No change.	N/A	N/A
NR/L2/SIG/10157	Signal sighting assessment process	3	03/04/2017	1	Y	N	N	Y	See below.	Standard needs to be updated to cover requirements for sighting ETCS block markers in consideration of	See below.	See below.	1

										degraded mode operating requirements.			
					Y	N	N		Sections 1 & 2	Requirements of standard are not appropriate for ETCS block markers, which are treated as fixed red stop signals in degraded mode operation.	Exclude sighting of ETCS block markers from scope and reference new Digital Railway delivery processes standard.	Requirements for sighting ETCS block markers taking cognisance of their use in degraded mode operation.	N/A
					N	N	N		Sections 3 - 7	N/A	No change.	N/A	N/A
NR/L2/SIG/11711	Digital Railway Reading Signalling	2	31/05/2018	1	Y	Y	Y	N	None	Recently updated standard, written specifically to support Digital Railway roll-out.	No change.	Nil	N/A
NR/L2/SIG/30004	CAD Cell Library	2	05/06/2010	1	N	N	N	N	None	Standard specifies cell libraries and processes associated with them, but not individual cells. No updates are needed for Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30009	Signalling Principles Handbook	13	02/06/2018	1	Y	N	N	N	None	Index only. Updates will be triggered by updates to individual modules.	No change.	Nil	N/A
NR/L2/SIG/30009/C410	Application of Tail Light Cameras	1	05/06/2010	1	N	N	N	N	None	Tail light cameras are not required in Digital Railway schemes owing to use of continuous train detection. Tail light cameras at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/30009/D120	'Signalling Principles Handbook - Identification of Primary and Slotted	1	06/04/2008	1	Y	N	N	N	None	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Slotting of ETCS RSPs.	N/A

	Signals												
NR/L2/SIG/30009/D220	Signalling Principles Handbook - Signal Spacing	1	06/03/2010	1	N	N	N	N	None	Signal spacing not applicable to lines signalled with ETCS Level 2 without signals.	No change.	Nil	N/A
NR/L2/SIG/30009/D225	Signalling Principles Handbook - Former SR Two Thirds Rule	1	01/03/2009	1	N	N	N	N	None	Signal spacing not applicable to lines signalled with ETCS Level 2 without signals.	No change.	Nil	N/A
NR/L2/SIG/30009/D310	Control of Signals'	3	02/09/2017	1	Y	N	N	N	None	Requirements relevant to shunt signals are applicable to Digital Railway schemes. No changes to these requirements envisaged as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30009/D410	Signalling Principles Handbook - Provision of Trapping Protection (including catch points and derailleurs)	1	05/12/2009	1	Y	N	N	Y	See below.	Updates needed to terminology and to reflect trapping requirements in lines signalling with ETCS.	See below.	See below.	3
					Y	N	N		Sections 1 & 2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3.1 & 3.2	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3	Term 'signal' is used for text that could also apply to an ETCS RSP and 'display a proceed aspect,' for text that could also apply to issuing an ETCS MA.	Change 'before the stop signal preceding the signal in question can display a proceed aspect' to 'before a movement authority (communicated via a signal aspect or ETCS) can be issued up to the signal.'	N/A	N/A
					Y	N	N		Section 3.4	Term 'signal' is used for text that could also apply to an	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

										ETCS RSP.				
					Y	N	N			Sections 3.5 - 3.7	N/A	No change.	N/A	N/A
					Y	N	N			Section 4	N/A	No change.	N/A	N/A
					Y	N	N			Sections 5 - 5.2 (inclusive)	N/A	No change.	N/A	N/A
					Y	N	N			Sections 5.3 & 5.4	Requirements for TPWS provision are inappropriate for lines signalled with ETCS Level 2 where lineside signals are not provided.	Clarify that requirements for TPWS do not apply on lines signalled with ETCS Level 2 where lineside signals are not provided.	Provision of safe overruns on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N			Sections 5.5 & 5.6	N/A	No change.	N/A	N/A
					Y	N	N			Section 5.7	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	N/A	N/A
					Y	N	N			Sections 5.8 - 5.11	N/A	No change.	N/A	N/A
					Y	N	N			Section 6	N/A	No change.	N/A	N/A
					N	N	N			Section 7	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E063	Signalling Principles Handbook -Approach Locking and Train Operated Route Release	1	02/06/2018	1	Y	N	N	Y		See below.	Updates needed to cover ETCS approach locking release arrangements.	See below.	See below.	3
					Y	N	N			Section 1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N			Sections 2	N/A	No change.	N/A	N/A
					Y	N	N			Section 3	Definition of 'Approach Locking' needs updating to cover ETCS.	Change definition to 'The locking of any route from a signal, RSP or asset protected by signal / ETCS RSP when the driver has or may have received	N/A	N/A

										authority to move past that signal / ETCS RSP. This authority to move can be given by a proceed aspect at the signal, a proceed aspect at the previous signal indicate the applicable signal is also displaying a proceed aspect or an ETCS movement authority.'			
					N	N	N		Section 3	Note in definition of 'Cancellation (of a route request)' needs updating to cover ETCS.	Change note to 'This action displays a stop aspect at the entrance / shortens an ETCS MA to the entrance RSP and initiates....'	N/A	N/A
					N	N	N		Section 3	Note in definition of 'Route Locking' needs updating to cover ETCS.	Change note to '...and that there is no train between the entrance signal / ETCS RSP and the route exit of the asset element.'	N/A	N/A
					Y	N	N		Section 4	No sub-section provided to describe ETCS specific approach locking release mechanisms to mirror sub-sections describing other	Add sub-section to cover approach locking release based on assurance from ETCS fitted train that it has	Approach locking release mechanisms specific to ETCS.	N/A

									approach locking release mechanisms.	stopped or is capable of doing so before passing the replaced signal / RSP.			
					Y	N	N		Section 4.2.1	Train in section proving (TISP) requirements not covered for routes on lines signalled with ETCS Level 2 where lineside signals are not provided.	Change 'signal' to 'signal / ETCS RSP.' Modify title and text to allow the use of ETCS position reports as part of the TISP sequence as well as / instead of track section occupancy. [Use of position report for TISP is particularly important where separate overlap track sections are not provided. Where this is the case, it is impossible from track section occupancy to distinguish a train passing an RSP from two trains occupying consecutive block sections.]	TISP for routes on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 4.2.2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.' Also provide equivalent wording to text referring to signal aspects to cover ETCS MAs.	N/A	N/A

					Y	N	N		Section 5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	N/A	N/A
					N	N	N		Sections 6	N/A	No change.	N/A	N/A
					Y	N	N		Appendices A1 & A2	Term 'signal' is used for requirements that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Appendix A3	Release times need to be revised for ETCS to allow for time-out of ETCS MA on-board train in the event of a telecommunication s failure immediately before a signal / RSP is replaced.	Add requirements for approach locking release times for ETCS MAs (whether from signals or RSPs).	Approach locking release times for ETCS.	N/A
					N	N	N		Appendix A4	N/A	No change.	N/A	N/A
					Y	N	N		Appendix A	ETCS specific approach locking mechanisms not covered.	Add section to cover approach locking release based on assurance from ETCS fitted train that it has stopped or is capable of doing so before passing the replaced signal / RSP.	Approach locking release mechanisms specific to ETCS.	N/A
					Y	N	N		Appendix B	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E120	Signalling Principles Handbook - Replacement Facilities	1	01/03/2009	1	Y	N	N	Y	<i>See below.</i>	Updates needed to cover replacement facilities at ETCS RSPs / block markers.	<i>See below.</i>	<i>See below.</i>	3
					Y	N	N		Sections 2, 3.1, 3.2 & 4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

					Y	N	N		Section 5	Requirements for replacement facilities at automatic ETCS RSPs not provided. These are likely to be similar to those for automatic signals however, as successive automatic ETCS RPs can be provided in close succession (e.g. for platform close-up) it may not always be appropriate to provide a replacement facility as is always done for automatic signals.	Add an additional sub-section covering requirements for replacement at automatic ETCS block markers.	Requirements for replacement facilities at automatic ETCS RSPs.	N/A
					Y	N	N		Sections 6	N/A	No change.	N/A	N/A
					N	N	N		Sections 7	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E420	Overrun Detection and Management	2	06/06/2015	1	Y	Y	N	Y	See below.	Updates needed to cover overrun detection and management in areas signalled with ETCS Level 2 (or exclude these from requirements).	See below.	See below.	3
					Y	Y	N		Sections 1 - 2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3 & 4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	Y	N		Sections 5 - 5.2 (inclusive)	Requirements for provision of overrun protection on lines signalled with ETCS Level 2 not provided. Due to the continuous automatic train protection functionality provided by ETCS, these requirements may be less onerous than those		Requirements for provision of overrun protection on lines signalled with ETCS Level 2.	N/A

										for lineside signalling.			
					Y	Y	N		Sections 5.3 - 5.5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Sections 6 - 6.1 (inclusive)	N/A	No change.	N/A	N/A
					Y	Y	N		Sections 6.2 - 6.4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	Y	N		Section 7	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Section 8	N/A	No change.	N/A	N/A
					N	N	N		Appendix A - Testing	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E421	Application of Overrun Management	1	01/08/2018	1	Y	N	N	N	None	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Requirements for provision of overrun protection on lines signalled with ETCS Level 2.	3
NR/L2/SIG/30009/E430	Signalling Principles Handbook - Provision of derailment detectors	1	06/04/2008	1	Y	N	N	Y	See below.	Updates need to cover ETCS signalling arrangements in the event of a derailment.	See below.	See below.	3
					Y	N	N		Sections 1 - 4	N/A	No change.	N/A	N/A
					Y	N	N		Section 5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 6	N/A	No change.	N/A	N/A
					N	N	N		Section 7	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E440	Signalling Principles Handbook - Provision of overlaps for shunt routes'	1	01/03/2009	1	Y	N	N	Y	See below.	Updates needed to cover shunt routes in areas signalled with ETCS Level 2.	See below.	See below.	3
					Y	N	N		Sections 1 & 2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3 & 4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

					Y	N	N		Section 5	Requirements for provision (or non provision) of shunt route overlaps on lines signalled with ETCS Level 2 where lineside signals are not provided not covered.	Additional sub-sections to cover requirements for shunt routes on lines signalled with ETCS Level 2 where lineside signals are not provided.	Requirements for provision (or non provision) of shunt route overlaps on lines signalled with ETCS Level 2 where lineside signals.	N/A
					Y	N	N		Section 6	Guidance on shunt route overlap length and provision of a separate shunt overlap track section may be inappropriate for ETCS Level 2 schemes where lineside signals are not provided.	Update guidance to cover ETCS Level 2 schemes where lineside signals are not provided.	N/A	N/A
					Y	N	N		Section 7	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/E450	Signalling Principles Handbook - Overlap Proving	1	05/03/2010	1	Y	N	N	Y	See below.	Updates needed to cover overlap proving requirements in areas signalled with ETCS Level 2.	See below.	See below.	3
					Y	N	N		Sections 3.1, 4 & 6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 5.1	Requirement for 180m minimum length of full overlap not appropriate for lines signalled with ETCS Level 2 where lineside signals are not provided.	Modify text to 'An overlap which is appropriate for all speeds of approach and, if associated with a lineside signal, is at least 180m long in accordance with GK/RT0064.	N/A	N/A
					Y	N	N		Sections 5.2 & 5.3	Reduced and restricted overlaps should be identified as not applicable to	Add note to the start of each section indicating that	N/A	N/A

										ETCS Level 2 where lineside signals are not provided.	it is not applicable to ETCS Level 2 where lineside signals are not provided.		
					Y	N	N		Section 9	Clarification needed as to whether a separate train detection section is required beyond an ETCS RPS as it is beyond a controlled signal. This maybe inappropriate given that ETCS MAs are indicated in cab (hence cab still be seen by the driver even if the train overruns), automatic train protection means overruns will generally be contained within the overlap and ETCS position reports provide details of train position.	Add additional text to clarify requirements.	Clarification of requirements for separate berth and overlap track sections.	N/A
NR/L2/SIG/30009/E610	Signalling Principles Handbook - Restoration of Trapping Protection	1	05/12/2009	1	Y	N	N	N	None	No changes to requirements for restoration of trapping protection anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30009/E810	Reasonable Opportunity Assessment for Signalling Alterations	2	03/09/2016	1	Y	N	N	Y	See below.	See below.	See below.	See below.	1
					Y	N	N		Sections 1 - 5	N/A	No change.	N/A	N/A
					Y	N	N		Sections 6.1 - 6.7	N/A	No change.	N/A	N/A
					Y	N	N		Section 6.8	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Section 6.9	N/A	No change.	N/A	N/A

					Y	N	N		Section 6.10	Term 'protecting signal' is used for text that could also apply to a protecting ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 7 - start of Section 7.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections 7 - 7.2.1 (inclusive)	N/A	No change.	N/A	N/A
					Y	N	N		Sections 7.2.2 - 7.2.6	Requirements not considered for assessment of ETCS Level 2 layout where lineside signals are not provided.	Provide additional subsection covering requirements for reasonable opportunity assessment for alterations to layouts signalled with ETCS Level 2 where lineside signals are not provided.	Reasonable opportunity assessment for alterations to layouts signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					N	N	N		Section 7.2.7	N/A	No change.	N/A	N/A
					Y	N	N		Section 7.2.8	N/A	No change.	N/A	N/A
					Y	N	N		Section 7.2.9	Overlap length requirements are inappropriate for ETCS Level 2 where lineside signals are not provided as overlaps, where provided at all, are used to allow trains to closely approach ETCS block markers rather than to mitigate overrun risk.	Identify section as not applicable to lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A	N/A
					Y	N	N		Section 7.2.10	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

					Y	N	N		Section 7.2.11	Mitigation of overrun risks in ETCS degraded mode operation not considered.	Add additional sub-section to cover overrun detection and mitigation for degraded mode operation on lines signalled with ETCS Level 2 where lineside signals are not provided.	Mitigation of overrun risks in ETCS degraded mode operation.	N/A
					Y	N	N		Section 7.2.12	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 7.2.13	N/A	No change.	N/A	N/A
					N	N	N		Section 7.2.14	N/A	No change.	N/A	N/A
					Y	N	N		Section 7.2.15 - 7.2.18	N/A	No change.	N/A	N/A
					Y	N	N		Section 7.3 - 7.4	N/A	No change.	N/A	N/A
					N	N	N		Section 8 & Appendix A	N/A	No change.	N/A	N/A
					Y	N	N		Appendix B	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/F140	Signalling Principles Handbook - Aspect and Indication Proving	1	05/12/2009	1	N	N	N	N	None	Aspect and indication proving not applicable to lines signalled with ETCS Level 2 without signals.	No change.	Nil	N/A
NR/L2/SIG/30009/F210	Signalling Principles Handbook - Application of Banner Repeaters	2	01/12/2012	1	N	N	N	N	None	Banner repeaters not applicable to lines signalled with ETCS Level 2 without signals.	No change.	Nil	N/A
NR/L2/SIG/30009/GERT8071	Control Facilities for use during Lineside Signalling Failures	1	06/06/2015	1	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		Part 1	N/A	No change.	N/A	N/A
					Y	N	N		Section 2.1	ETCS equivalent of a Proceed on Sight Authority (PoSA) aspect not defined.	Specify ETCS equivalent of a Proceed on Sight Authority (PoSA) aspect.	ETCS equivalent of a Proceed on Sight Authority (PoSA) aspect.	N/A
					Y	N	N		Sections 2.2 - 2.6	N/A	No change.	N/A	N/A
					Y	N	N		Section 2.7	ETCS equivalent of a Proceed on Sight Authority (PoSA)	Specify the use of ETCS On Sight (OS) MAS	ETCS equivalent of a PoSA aspect.	N/A

									aspect not defined.	to communicate PoSAs on lines signalled with ETCS Level 2 where lineside signals are not provided.			
					Y	N	N		Sections 3.1 - start of 3.1.2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3.1.2	Standard refers to PoSA signal aspects where ETCS OS MAs could also be used.	Specify the use of ETCS OS MAs to communicate PoSAs on lines signalled with ETCS Level 2 where lineside signals are not provided.	ETCS equivalent of a PoSA aspect.	N/A
					Y	N	N		Section 4.1.1	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.1.2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections 4.2	Standard refers to PoSA signal aspects where ETCS OS MAs could also be used.	Add equivalent sub-section to define ETCS OS MAs issued for PoSAs.	ETCS equivalent of a PoSA aspect.	N/A
					Y	N	N		Section 4.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 4.4.1	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.4.2	Standard refers to PoSA signal aspects where ETCS OS MAs could also be used.	Refer to the use of ETCS OS MAs, instead of PoSA aspects, on lines signalled with ETCS Level 2 where lineside signals are not provided.	ETCS equivalent of a PoSA aspect.	N/A
					Y	N	N		Section 4.4.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

					Y	N	N		Section 4.4.4	Standard refers to PoSA signal aspects where ETCS OS MAs could also be used.	Refer tp the use of ETCS OS MAs, instead of PoSA aspects, on lines signalled with ETCS Level 2 where lineside signals are not provided.	ETCS equivalent of a PoSA aspect.	N/A
					Y	N	N		Section 4.4.4	Standard doesn't allow for PoSA replacement by ETCS position report.			N/A
					Y	N	N		Section 4.4.5	Standard refers to PoSA signal aspects where ETCS OS MAs could also be used.	Refer tp the use of ETCS OS MAs, instead of PoSA aspects, on lines signalled with ETCS Level 2 where lineside signals are not provided.	ETCS equivalent of a PoSA aspect.	N/A
					Y	N	N		Section 4.4.6 & 4.4.7	N/A	No change.	N/A	N/A
					N	N	N		Section 4.4.8 & 4.4.9	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.4.10	Requirements not covered for illumination of train dispatch indicators with PoSAs on lines signalled with ETCS Level 2 where lineside signals are not provided.	Add additional clauses covering requirements for illumination of train dispatch indicators with PoSAs on lines signalled with ETCS Level 2 where lineside signals are not provided.	Requirements not covered for illumination of train dispatch indicators with PoSAs on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					N	N	N		Section 4.4.11	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.4.12	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.4.13	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 4.4.14	N/A	No change.	N/A	N/A
					Y	N	N		Section 4.5	N/A	No change.	N/A	N/A

					Y	N	N		Sections 5.1.1 & 5.1.2	N/A	No change.	N/A	N/A
					Y	N	N		Section 5.1.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections 5.2 & 5.3	N/A	No change.	N/A	N/A
					Y	N	N		Section 6.1	N/A	No change.	N/A	N/A
					Y	N	N		Section 6.2.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 6.2.2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 6.3 - 6.6	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/GKRT0039	Semaphore And Mechanical Signalling	1	06/09/2014	1	Y	N	N	N	None	It is assumed that Digital Railway schemes will only use mechanical signalling in exceptional circumstances and then only for ground frames with moves conducted in ETCS Shunt mode and the ground frames operating to existing requirements. Interfaces to Semaphore signalling at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/30009/GKRT0041	Track Circuit Block	1	06/09/2014	1	Y	N	N	N	None	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Nil	N/A

NR/L2/SIG/30009/GKRT00 42	Absolute Block	1	06/09/2014	1	N	N	N	N	None	It is assumed that Digital Railway schemes will only use Track Circuit Block arrangements and not Absolute Block. Interfaces to Absolute Block signalling at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/30009/GKRT00 51	Single Line Control	1	06/09/2014	1	N	N	N	N	None	It is assumed that Digital Railway schemes will only use Track Circuit Block and not Single Line Control arrangements. Interfaces to Single Line Control systems at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/30009/GKRT00 54	Radio Electronic Token Block	2	06/06/2015	1	N	N	N	N	None	It is assumed that Digital Railway schemes will only use Track Circuit Block arrangements and not Radio Electronic Token Block (RETB). Interfaces to RETB at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to	No change.	Nil	N/A

									necessitate changes to this standard.				
NR/L2/SIG/30009/GKRT0060	Interlocking Principles	2	06/06/2015	1	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		Part A	N/A	No change.	N/A	N/A
					Y	N	N		Part B	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections C1 & C2	N/A	No change.	N/A	N/A
					Y	N	N		Section C3	ETCS MAs not defined.	Add description of meaning of ETCS FS, OS and LS MAs.	Definition of ETCS MAs alongside those associated with signal aspects.	N/A
					Y	N	N		Sections C4 & C5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section C5.1.6	Applicability of automatic working to ETCS routes / MAs not covered.	Elaborate text to state that as well as main and warning class routes, automatic working facilities can also be provided for ETCS FS class routes, but not OS / LS class routes.	Applicability of automatic working to ETCS routes / MAs not covered.	N/A
					Y	N	N		Section C6	N/A	No change.	N/A	N/A
					Y	N	N		Section C7	Section describes issue of MAs through control of lineside signal aspects, but no equivalent section is provided for issuing ETCS MAs.	Add additional section to cover requirements for issuing ETCS MAs.	Requirements for issuing ETCS MAs.	N/A
					Y	N	N		Section C8.1.1	Section describes replacement of a signal, but not replacement of an	Add requirements for replacement of ETCS RSPs	Requirements for replacement of ETCS RSPs and associated withdrawal of ETCS MAs.	N/A

									ETCS RSP / withdrawal of an ETCS MA.	and associated withdrawal of ETCS MAs.			
					Y	N	N		Section C8.1.2	Requirements not covered for stopping all trains in an area on a line signalled with ETCS Level 2 where lineside signals are not provided.	Add requirements for stopping all trains in a given area on a line signalled with ETCS Level 2 where lineside signals are not provided.	Requirements for stopping all trains in an area on a line signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section C8.1.3	Requirements for presetting shunt signals, where provided for moves that cannot be controlled with ETCS MAs, on lines signalled with ETCS Level 2.	Add requirements for control of pre-set shunting signals on lines signalled with ETCS Level 2 where (main aspect) lineside signals are not provided.	Add requirements for control of pre-set shunting signals on lines signalled with ETCS Level 2 where (main aspect) lineside signals are not provided.	N/A
					Y	N	N		Section C8.2.1	Requirements not covered for replacing an ETCS RSP.	Add requirements for replacing ETCS RSPs.	Requirements for replacing ETCS RSPs.	N/A
					N	N	N		Section C8.2.2	N/A	No change.	N/A	N/A
					N	N	N		Section C8.2.3	Disengagement of ETCS RSPs not covered.	Extend text to cover disengagement of ETCS RSPs.	Disengagement of ETCS RSPs.	N/A
					Y	N	N		Section C8.2.4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Sections C8.2.5 & C8.2.6	N/A	No change.	N/A	N/A
					Y	N	N		Section C9.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section C9.2	Requirements for presetting shunt signals, where provided for moves that cannot be controlled with	Add requirements for control of pre-set shunting signals on lines	Add requirements for control of pre-set shunting signals on lines signalled with ETCS Level 2 where (main aspect) lineside signals are not provided.	N/A

									ETCS MAs, on lines signalled with ETCS Level 2.	signalled with ETCS Level 2 where (main aspect) lineside signals are not provided.			
					Y	N	N		Sections C9.3 & C9.4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section C10	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Appendix 1 Table 2	Locking level requirements for ETCS routes missing.	Add additional columns to table covering locking level requirements for FS, OS & LS routes.	Locking level requirements for ETCS routes.	N/A
					Y	N	N		Appendix 1 - Controls 7 & 15	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Appendix 2 Introductory Text	Text describes issue of MAs through signal aspects, but not through ETCS MAs.	Re-word introductory text: 'Display of a movement authority at a controlled stop signal / issuing an ETCS MA from a controlled RSP shall require ... effective at time of clearing the signal / RSP only.... shall result in the signals reverting to its most restrictive aspect / the RSP being replaced....'	N/A	N/A
					Y	N	N		Appendix 2 Table 3	Aspect level requirements for ETCS routes missing.	Add additional columns to table covering aspect level	Aspect level requirements for ETCS routes.	N/A

											requirements for FS, OS & LS routes.		
					Y	N	N		Appendix 2 - Controls 1, 16, 18 & 32	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Appendix 2 Table 4	Requirements for automatic ETCS RSPs not covered.	Add sub-section covering requirements for automatic RSPs.	Requirements for automatic RSPs.	N/A
NR/L2/SIG/30009/GKRT0061	Shunters Release, Ground Frames, Switch Panels and Gate Boxes	1	06/09/2014	1	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		Part A	N/A	No change.	N/A	N/A
					Y	N	N		Section B1 - B3	N/A	No change.	N/A	N/A
					Y	N	N		Sections B4 - B6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section B7	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/GKRT0064	Provision of Overlaps, Flank Protection and Trapping	2	06/06/2015	1	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		Section B1	N/A	No change.	N/A	N/A
					Y	N	N		Section B2	Requirements for overlap, flank protection and trapping not covered for lines signalled with ETCS Level 2 where lineside signals are not provided.	Expand scope to include lines signalled with ETCS Level 2 where lineside signals are not provided.	Requirements for overlap, flank protection and trapping not covered for lines signalled with ETCS Level 2 where lineside signals.	N/A
					Y	N	N		Section B3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP' and add a definition on an ETCS RSP.	N/A	N/A
					Y	N	N		Section B3, Overlap	Distinction between 'Full,' 'Reduced' and 'Restricted' overlaps is not appropriate for lines signalled with ETCS Level 2 where lineside signals are not provided.	Modify text to indicate that the distinction between 'Full,' 'Reduced' and 'Restricted' overlaps only applies to overlaps beyond signals.	N/A	N/A

					Y	N	N		Section B4.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section B4.2	Overlap lengths are inappropriate for ETCS Level 2 where lineside signals are not provided as overlaps, where provided at all, serve a different purpose. Whereas in conventional signalling they provide a safe overrun distance, in ETCS they enable trains to approach ETCS block markers with a release speed.	Add requirements for overlap length on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A	N/A
					N	N	N		Section B4.3	N/A	No change.	N/A	N/A
					N	N	N		Section B4.4	N/A	No change.	N/A	N/A
					Y	N	N		Section B4.5	Situations in which overlaps are not needed not covered for lines signalled with ETCS Level 2 where lineside signals are not provided: unmarked RSP, marked RSPs for which it is not necessary to closely approach the ETCS block marker, turn-back RSPs, buffer stops.	Include situations in which overlaps are not needed for lines signalled with ETCS Level 2 where lineside signals are not provided in list in Section 4.5.1.	List of situations in which overlaps are not needed for lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section B4.6	N/A	No change.	N/A	N/A
					Y	N	N		Section B4.7	N/A	No change.	N/A	N/A
					Y	N	N		Section B4.8	Requirements not stated for provision or non-provision of separate overlap track sections on lines signalled with ETCS Level 2 where lineside signals are not provided.	Modify text in Sections 4.8.1 & 4.8.2 to include requirement for separate overlap track sections beyond RSPs as well as signals.	Requirements not stated for provision or non-provision of separate overlap track sections on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A

											OR Includes lines signalled with ETCS Level 2 where lineside signals are not provided in the list of cases where it is possible to waive the requirement for a separate overlap track section in Section 4.8.4.		
					N	N	N		Section B4.9	N/A	No change.	N/A	N/A
					N	N	N		Section B5	N/A	No change.	N/A	N/A
					Y	N	N		Section B6	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP' and add a definition on an ETCS RSP.	N/A	N/A
					Y	N	N		Section B7	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Section B8	N/A	No change.	N/A	N/A
NR/L2/SIG/30009/MANUAL		14	01/08/2018	1	Y	N	N	N	None	Index only. Updates will be triggered by updates to individual modules.	No change.	Nil	N/A
NR/L2/SIG/30009/Z110	Signalling Principles Handbook - Staff Protection Systems	1	05/12/2009	1	N	Y	N	N	None	Updates needed to cover use of handheld terminals, interfacing to traffic management, as a staff protection system.	No change.	Nil	N/A
NR/L2/SIG/30009/Z115	Train Activated Warning System (TAWS)	1	03/12/2011	1	N	N	N	N	None	No changes to TAWS anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30009/Z210	National Deviation and Variations (Signalling)	2	03/09/2016	1	N	N	N	N	None	National Deviations and Variations listed are not applicable to Digital	No change.	Nil	N/A

										Railway.			
NR/L2/SIG/30017	Requirements for Level Crossings	2	03/09/2011	1	N	N	N	N	None	Index only. Updates will be triggered by updates to individual modules.	No change.	Nil	N/A
NR/L2/SIG/30017/D	Telephone systems at level crossings	1	05/09/2009	1	N	N	N	N	None	No changes to requirements for telephone systems at level crossings anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30017/F	Track and electrification systems at level crossings	1	05/09/2009	1	N	N	N	N	None	No changes to requirements for track and electrification systems at level crossings anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30017/G	Level crossing geometry and surfaces	1	05/09/2009	1	N	N	N	N	None	No changes to level crossing geometry and surfaces anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30017/H	Lighting and CCTV systems at level crossings	1	05/09/2009	1	N	N	N	N	None	No changes to lighting and CCTV systems at level crossings anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30017/J	Construction, testing and commissioning of level crossings	1	05/09/2009	1	N	N	N	N	None	No changes to arrangements for constructing, testing and commissioning level crossings anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30017/K	Operation, maintenance and inspection of level crossings	1	05/09/2009	1	N	N	N	N	None	No changes to arrangements for operating, maintaining and inspecting level crossings	No change.	Nil	N/A

										anticipated as a result of Digital Railway.			
NR/L2/SIG/30017/L	Change of legal status and decommissioning of level crossings following closure	1	05/09/2009	1	N	N	N	N	None	No changes to arrangements for closing level crossings anticipated as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30021	Alteration to Authorised Line Speeds	2	03/09/2011	1	Y	Y	Y	N	None	Standard covers only process for assessing speed changes, not specific details of how those speed changes are implemented.	No change.	Nil	N/A
NR/L3/INF/02225	Records management	1	01/10/2009	1	Y	Y	Y	N	None	Standard covers only generic process, not specific details of implementation hence no changes are needed.	No change.	Nil	N/A
NR/PRC/MPI/ST0029	Signalling scheme plan number controls	2	01/04/2006	1	Y	N	N	N	None	No changes to numbering controls for scheme plans (where used) envisaged as a result of Digital Railway.	No change.	Nil	N/A
NR/GN/SIG/00028	General Guidelines on Train Protection & the Provision of Signalling (formerly RT/E/G/00028)	1	06/12/2003	1	Y	N	N	Y	1.12	Section 1.7 mentions ERTMS as future option to ensure train protection but section 1.12 detailing options omits any mention	Expand section 1.12 to include ERTMS as an option	Alter standard to include ETCS as a train protection option instead of TPWS.	3
RT/E/S/14200	Prevention and Mitigation of Overruns - Risk Assessment Tools	1	07/06/2003	1	N	N	N	N	None	Standard concerns signal / layout risk assessment tools that are unchanged by Digital Railway, although ETCS ATP can be cited as a risk mitigation.	No change.	Nil	N/A
NR/L2/SIG/14201	Prevention and Mitigation of Overruns - Risk	2	26/08/2008	1	Y	N	N	N	2, 7.1	Updates / equivalent standard needed for ETCS	Expand section 2, 7.1 etc.	Nil	N/A

	Assessment of Signals									degraded mode overrun risk assessment.			
Category 2 Standards: Detailed Design													
NR/GN/SIG/02022	Requirements for TASS Infrastructure System Description (formerly RT/E/C/02022)	2	03/12/2005	2	Y	N	N	Y	None	Section 5.1 already states it uses ERTMS data structures and is compatible with ERTMS Level 1, 2 & 3 and can share facilities	No change.	Maybe we can incorporate the TAS requirement in any new standards, or at least reference the TASS standard where TASS is required (though at the moment it is just on certain lines)	N/A
NR/L2/ELP/27500	Production of Isolation Diagrams, Isolation Instructions, Comprehensive Track Diagrams and Operations Diagrams	2	03/03/2018	2	Y	Y	N	Y	5.3	Section 5.3 refers to listing of relevant signals and shunt signals as protecting an isolated section or places where trains may be stopped and bridge a section gap	The section needs slight expanding to add "Limit of Movement Authority" or similar	May need to update to include ETCS marker boards, where they are used to protect isolation sections.	3
NR/L2/SIG/11201	Signalling Design Handbook	11	01/12/2018	2	Y	N	N	Y	General	An index of Modules	Will need expanding if new module needed to cover ERTMS, and will need updating if any module changed because of ERTMS	I think an ETCS specific module in the design handbook would be useful. It is the first place designers look for guidance.	1
NR/L2/SIG/11201/Protocol	Protocol	1	01/12/2018	2	N	N	N	N	None	Purely procedural with no mention of technology	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A1-1	Competency	1	01/12/2018	2	N	N	N	N	None	Not technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A1-2	Signalling Design - overview	1	01/12/2018	2	Y	N	Y	Y	Section 4 Figure 2	Sub-Section on Cab signalling still blank	Expand/comple te sub-section. This affects signalling design and driver interface	Complete existing blank section.	1
NR/L2/SIG/11201/Mod A1-3	Signalling Design Specifications	1	01/12/2018	2	N	N	N	N	None	Fairly general and cross refers to other primary standards. The primary standards may need amending, this does not.	No change.	Only potential update of referenced standards.	N/A

NR/L2/SIG/11201/Mod A2-1	Design Media	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-2	Drawing Techniques	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-3	Design Drawing Control	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-4	Configuration control	1	01/12/2018	2	Y	N	N	Y	4.1	lists typical indexes	Consider mentioning index for ERTMS specific drawings unless already considered as covered by section 4.5	Might consider an index example that has ETCS, but an index is generally and index.	1
NR/L2/SIG/11201/Mod A2-5	Source Records - ordering and return	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-6	Source Records - Update	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-7	Source records - As built Technical Review	1	01/12/2018	2	Y	Y	?	Y	C & D	Section C mention SSI and Section D mentions Electronic Systems	Review as existing might be sufficient to cover ERTMS if ERTMS is considered an electronic system	Might need amending to cover RBC data, or TMS and CDAS data?	1
NR/L2/SIG/11201/Mod A2-8	Design Presentation and Conventions	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-9	Functional Equivalent Design	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-10	Signalling design Production Process	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-11	Certification & Verification Process	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-12	Overlapping and Parallel Design	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-13	Signalling stageworks & Partially Commissioned Design Work	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-14	Design Logs	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-16	Dependability (including RAMS)	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-17	Risk Assessments & Safety System	1	01/12/2018	2	Y	N	N	☐	5 section a)	Not signalling technology specific. It mentions signals as an example but states it is not	Consider expanding to list position of Limit of Movement	Need to consider the different types of risks that ETCS presents. Might be useful to update this standard to state this.	1

										exhaustive	Authority as a risk factor		
NR/L2/SIG/11201/Mod A2-19	Assessment of Signalling Systems before Signalling Design Alteration	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-20	Correlation of Signalling Records	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-21	Design Modifications	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific. Biased to wiring alterations.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-23	Recovery of Redundant Assets	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-24	Data Systems	1	01/12/2018	2	Y	N	N	Y	General	ERTMS is a data system but not specifically mentioned	Expand to mention ERTMS specific requirements or produce separate ERTMS module	RBC data and TMS/CDAS data requirements could be included here.	2
NR/L2/SIG/11201/Mod A2-25	SSI Systems	1	01/12/2018	2	N	N	N	N	None	Technology Specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-26	IECC Data Systems	1	01/12/2018	2	N	N	N	N	None	Technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A2-27	Intelligent infrastructure	1	01/12/2018	2	N	N	N	N	None	Technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A3-1	Operating Requirements Review	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Would we need to consider the different operating issues with Digital Railway?	N/A
NR/L2/SIG/11201/Mod A3-2	Project Requirements for Signalling Schemes	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A3-3	Signalling Scheme Plans	1	01/12/2018	2	Y	N	N	Y	9	Not very technology specific but mentions limits of plan to extend to sighting point of first relevant approach signal	Expand to mention ERTMS specific limits	I think ETCS plans may need to be mentioned, or at least a reference to an ETCS scheme plan design guide?	1
NR/L2/SIG/11201/Mod A3-4	Equipment Identity Grids	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A3-5	Signal spacing Parameters	1	01/12/2018	2	Y	N	N	Y	General	Not signalling technology specific but assumes conventional signalling	Expand to include Limits of Movement Authority and such ERTMS related material as signal	Spacing of marker boards and block section lengths will be different in ETCS, as the braking curve is based on the train parameters and length of free blocks ahead. May need a separate section or reference to an ETCS design guide.	3

											spacing on ERTMs has the same constraints. A new Module to cover ERTMS level 3 would almost certainly be required but such a new module may not be required for Level 1 and 2.		
NR/L2/SIG/11201/Mod A3-6	Aspect Sequence Charts	1	01/12/2018	2	N	N	N	Y	General	Technology specific but may need expanding to cover ERTMS level 1 and 2. It does not apply to ERTMS level 3 .	Review and expand	Again, may need reference to an ETCS design guide for where marker boards are used.	1
NR/L2/SIG/11201/Mod A3-7	Signal Sighting	1	01/12/2018	2	Y	N	N	Y	None	Technology specific and does not apply to ERTMS	Is marker board sighting covered by signage sighting?	May need a section to cover marker board sighting.	1
NR/L2/SIG/11201/Mod A3-10	Signalling Scheme Plans Best Practice	1	01/12/2018	2	Y	N	N	Y	General	Does not mention ERTMS	Expand to include Limits of Movement Authority and ERTMS related material	Needs to cover ETCS based scheme plans or reference separate document.	1
NR/L2/SIG/11201/Mod A4-2	Signalling plan & Signal box Notes	1	01/12/2018	2	Y	Y	Y	Y	None	Not signalling technology specific	May need to consider signal box notes associated with ETCS and Digital Railway, including TMS and CDAS functionality.	Consider if specific signal box notes are required for Digital Railway specific equipment and operations.	1
NR/L2/SIG/11201/Mod A4-3	Location area plan & Cable Route Plan	1	01/12/2018	2	Y	N	N	Y	General	Not signalling technology specific	Expanding to mention ECTS balises as present on track.	Needs to mention ETCS specific equipment.	1
NR/L2/SIG/11201/Mod A4-4	Bonding Plans	1	01/12/2018	2	N	N	N	N	None	Technology Specific and does not apply to ERTMS	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A4-5	Switch and Crossing (S&C) Plans	1	01/12/2018	2	N	N	N	N	None	Technology Specific and does not apply to ERTMS	No change.	Nil	N/A

NR/L2/SIG/11201/Mod A4-6	Cable Plans & Power Schematic Plans	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A4-7	Mechanical Locking & Mechanical Engineering Detail	1	01/12/2018	2	N	N	N	N	None	Technology Specific and does not apply to ERTMS	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A4-8	Signal Box, Interlocking & Lineside Location Circuits	1	01/12/2018	2	N	N	N	N	None	Technology Specific and does not apply to ERTMS	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A4-9	Electronic systems	1	01/12/2018	2	Y	N	N	Y	General	Not that specific in technology and may cover electronic interlockings and train describers	Consider expanding to include ERTMS if new ERTMS Module not produced	Need to mention Digital Railway equipment, such as RBC, or reference separate ETCS standard.	3
NR/L2/SIG/11201/Mod A4-10	Operation and Maintenance details	1	01/12/2018	2	N	N	N	N	None	Not signalling technology specific	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A5-1	Symbols for Plans and Sketches used in Signalling Application	1	01/12/2018	2	Y	N	N	Y	<i>See below.</i>	Updates needed to cover ETCS symbols on plans and sketches.	<i>See below.</i>	<i>See below.</i>	1
					Y	N	N		Sections 1 - 5	N/A	No change.	N/A	N/A
					Y	N	N		Section 6 & Appendix A	ETCS symbols for use on signalling layout plans not covered.	Add sub-section to Appendix A defining ETCS symbols for use on signalling layout plans.	ETCS symbols for use on signalling layout plans.	N/A
					N	N	N		Sections 7 - 9	N/A	No change.	N/A	N/A
					N	N	N		Appendices B - D	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod A5-2	Symbols for Signalling Circuit Diagrams	1	01/12/2018	2	N	N	N	N	None	Minimal circuit diagrams needed for Digital Railway technologies. No new symbols anticipated.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A5-3	Signalling Design Control Tables	1	01/12/2018	2	Y	N	N	Y	<i>See below.</i>	Minor updates needed to cover ETCS terminology, e.g. block markers / RSPs as equivalent to signals.	<i>See below.</i>	<i>See below.</i>	3
					Y	N	N		Sections 1 - 4	N/A	No change.	N/A	N/A
					Y	N	N		Section 5.1	N/A	No change.	N/A	N/A
					Y	N	N		Section 5.2	Term 'signal' is used where text could equally well apply to the start / end of an ETCS MA in ETCS	Change 'signal' to 'signal / ETCS RSP' where text could apply to the start / end	N/A	N/A

										Level 2 without signals.	of an ETCS MA. [Route Setting Position (RSP) is a term taken from the GB ERTMS Rule Book modules.]		
					Y	N	N		Section 5.2	ETCS route classes not included in list of classes of route.	Add ETCS route classes (FS, OS, LS, etc.) to list of classes of route.	ETCS route classes.	N/A
					Y	N	N		Sections 5.3 - 5.9	N/A	No change.	N/A	N/A
					Y	N	N		Section 6	N/A	No change.	N/A	N/A
					N	N	N		Section 7	N/A	No change.	N/A	N/A
					Y	N	N		Sections 8 - 11	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod A5-3/App A	Conventions, General Notes, Dollar Notes and Signaller Route Lists	1	01/12/2018	2	Y	N	N	Y	See below.	Updates needed to cover presentation of ETCS information on control tables: issuing / revoking movement authorities, approach locking, etc.	See below.	See below.	3
					Y	N	N		Sections A.1 & A.2	N/A	No change.	N/A	N/A
					Y	N	N		Section A.3	List of \$ notes does not cover commonly used ETCS Level 2 related interlocking functions.	Define \$ notes for commonly used ETCS Level 2 related functions, such as the following: - authorise issue of ETCS movement authority (MA); - ETCS approach locking / approach locking release; - train proved to be fully supervised by an ETCS MA; - train proved to be at a standstill by ETCS position	\$ notes for commonly used ETCS Level 2 related interlocking functions.	N/A

											report.		
					Y	N	N		Section A.4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Requirements for signaller route lists on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
NR/L2/SIG/11201/Mod A5-3/App B	RRI Signal and Aspect Control Tables	1	01/12/2018	2	N	N	N	N	None	It is assumed that Digital Railway schemes won't use RRI. Interfaces to RRI at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A5-3/App C	RRI Point and Ground Frame Control tables	1	01/12/2018	2	N	N	N	N	None	It is assumed that Digital Railway schemes won't use RRI. Interfaces to RRI at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A5-3/App D	Control Tables for Level Crossings	1	01/12/2018	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at level crossings.	See below.	See below.	3
					Y	N	N		General	Control tables do not support the use of ETCS (Packet 88) level crossing functionality.	Add additional control table columns and explanatory text to specifying requirements for switching ETCS Packet 88	ETCS (Packet 88) Level crossing functionality.	N/A

											('Level Crossing Information') data sent to trains approaching level crossings.		
					Y	N	N		Sections D - D.1.3 (inclusive)	N/A	No change.	N/A	N/A
					Y	N	N		Section D.1.4	Control table does not allow for triggering of MCB level crossing closure by ETCS position report.	Modify control table design to allow for triggering of MCB level crossing closure by ETCS position report as well as track circuits / treadles.	Triggering of MCB level crossing closure by ETCS position report.	N/A
					Y	N	N		Sections D.1.4 & D.1.5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section D.1.6	Control table does not allow for triggering of MCB level crossing opening by ETCS position report.	Modify control table design to allow for triggering of MCB level crossing closure by ETCS position report as well as track circuits / treadles.	Triggering of MCB level crossing opening by ETCS position report.	N/A
					Y	N	N		Sections D.1.7 & D.1.8	N/A	No change.	N/A	N/A
					Y	N	N		Sections D - D.2.3 (inclusive)	N/A	No change.	N/A	N/A
					Y	N	N		Sections D.2.4 & D.2.5	Control table does not allow for triggering of AHB level crossing closure & re-opening by ETCS position report.	Modify control table design to allow for triggering of AHB level crossing closure & re-opening by ETCS position report as well as track circuits / treadles.	Triggering of AHB level crossing closure & re-opening by ETCS position report.	N/A

					Y	N	N		Sections D.2.4 & D.2.5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section D.2.6	N/A	No change.	N/A	N/A
					Y	N	N		Sections D.3 & D.4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections D.5 - D.6	N/A	No change.	N/A	N/A
					Y	N	N		Section D.7	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section D.8	Control table does not allow for automatic switch-on of CCTV monitors triggered by ETCS position report.	Modify control table design to allow for triggering of CCTV monitor switch-on by ETCS position report as well as track circuits / treadles.	Triggering of CCCTV monitor switch-on by ETCS position report.	N/A
					Y	N	N		Section D.8	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
NR/L2/SIG/11201/Mod A5-3/App E	Control Tables for Train Warning and Protection Systems	1	01/12/2018	2	Y	N	N	N	None	Subject of the standard is 'train warning and protection systems,' which logically would include ETCS though ETCS is not mentioned.	Add a statement to the introductory text saying that ETCS is excluded from the scope of the standard.	Nil	N/A
NR/L2/SIG/11201/Mod A5-3/App F	Control Tables for Staff Protection Systems (TOWS)	1	01/12/2018	2	N	N	N	N	None	No changes to TOWS envisaged as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod A5-3/App G	Control Tables for Block Systems and Electro-mechanical	1	01/12/2018	2	N	N	N	N	None	It is assumed that Digital Railway schemes won't use electro-mechanical signalling and associated block systems. Interfaces to block systems / electro-mechanical	No change.	Nil	N/A

										signalling at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.			
NR/L2/SIG/11201/Mod A5-3/App H	SSI Control Tables	1	01/12/2018	2	Y	N	N	Y	See below.	Updates needed to include ETCS controls or explicitly exclude ETCS and / or SSI-successor interlocking technologies from scope.	See below.	See below.	3
					Y	N	N		Section H.1	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.2.1 & H.2.2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section H.2.3 (a) - (d)	Entries are inappropriate for lines signalled with ETCS Level 2 where lineside signals are not provided.	Create an alternative control table template with 'Route Indicator Proved Lit,' 'Aspect,' 'Signal Ahead Provided,' 'Banner Proved' columns replaced by columns specifying the type of ETCS MA issued (Full Supervision (FS), On Sight (OS) and Limited Supervision (LS), FS->OS, etc.) and any route indication text message sent.	Entries describing type of ETCS MA and any associated route indication text message.	N/A
					Y	N	N		Section H.2.3 (e) - (k)	N/A	No change.	N/A	N/A

					Y	N	N		Section H.2.4 (a)	Requirements for disengagement of ETCS RSPs not covered.	Change 'signal' to 'signal / ETCS RSP' in existing text to allow existing track circuit based disengagement. Add additional text and modify template to allow disengagement by position report as well as / instead of track circuit based disengagement. [Disengagement by position report is particularly important where separate overlap track sections are not provided. Where this is the case, it is impossible from track section occupancy to distinguish a train passing an RSP from two trains occupying consecutive block sections.]	Disengagement of ETCS RSPs	N/A
					N	N	N		Section H.2.4 (b)	N/A	No change.	N/A	N/A
					Y	N	N		Section H.2.4 (c)	N/A	No change.	N/A	N/A
					Y	N	N		Section H.2.4 (d)	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section H.2.4 (e) - (g)	No control table entry provided to describe ETCS specific approach locking release	Add sub-section and control table entry to cover approach locking release	Approach locking release mechanisms specific to ETCS.	N/A

									mechanisms: cooperative shortening of MA / train proved at a standstill with no MA into route.	based on assurance from ETCS fitted train that it has stopped or is capable of doing so before passing the replaced signal / RSP.			
					N	N	N		Section H.2.4 (e)	N/A	No change.	N/A	N/A
					Y	N	N		Section H.2.4 (f)	Train in section proving (TISP) requirements not covered for routes on lines signalled with ETCS Level 2 where lineside signals are not provided.	Change 'signal' to 'signal / ETCS RSP.' Modify title and text to allow the use of ETCS position reports as part of the TISP sequence as well as / instead of track section occupancy. [Use of position report for TISP is particularly important where separate overlap track sections are not provided. Where this is the case, it is impossible from track section occupancy to distinguish a train passing an RSP from two trains occupying consecutive block sections.]	TISP for routes on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections H.2.4 (g) - (i)	N/A	No change.	N/A	N/A
					Y	N	N		Section H.2.4 (j)	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A

					N	N	N		Sections H.2.4 (k) - (l)	N/A	No change.	N/A	N/A
					Y	N	N		Section H.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Sections H.4	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.5.2 - 5.3	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.5.3 Columns 1 - 9	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.5.3 Columns 10 & 11	Use of ETCS position report not covered as an alternative to track section occupied for a time for declaring a train at a standstill.	Add an additional column to the control template, 'or'ed with 'track circuits occ for time' and entitled 'ETCS position report indicating training as a standstill.' Add explanatory text in Section H.5.3.	Use of ETCS position report to declare a train at a standstill for the purposes of releasing overlap locking.	N/A
					Y	N	N		Sections H.5.3 Column 12	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.5.3 Columns 13 - 16	N/A	No change.	N/A	N/A
					Y	N	N		Sections H.5.3 Columns 17 - 19	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections H.6 & H.7	N/A	No change.	N/A	N/A
					N	N	N		Section H.8	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod A5-3/App J	SIMIS - W Control Tables	1	01/12/2018	2	N	N	N	N	None	Supplier-specific interlocking technology hence would need supplier specific expertise to propose updates if SIMIS-W interlockings are used for future Digital Railway schemes.	No change.	Nil	N/A

NR/L2/SIG/11201/Mod A5-3/App K	Signalling Control Tables - MCB-OD Level Crossings	1	01/12/2018	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at level crossings.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add control table columns and explanatory text to cover switching of ETCS Packet 88 (Level Crossing Information).	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Sections K - K1.2 (inclusive)	N/A	No change.	N/A	N/A
					N	N	N		Section K1.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections K1.4 & K1.5	N/A	No change.	N/A	N/A
					Y	N	N		Section K1.6	Standard does not allow for triggering of Auto Raise by ETCS position report.	Modify requirements to allow for triggering of Auto Raise by ETCS position report as well as track circuits / treadles.	Triggering of Auto Raise by ETCS position report.	N/A
					Y	N	N		Section K1.6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section K2	Standard does not allow for triggering of Auto Lower by ETCS position report.	Modify requirements to allow for triggering of Auto Lower by ETCS position report as well as track circuits / treadles.	Triggering of Auto Lower by ETCS position report.	N/A
					Y	N	N		Section K3	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod A5-4	Definitions	1	01/12/2018	2	Y	Y	Y	N	None	Additional definitions likely to be required to cover Digital Railway technologies.	Add new definitions required for Digital Railway technologies.	Digital Railway terminology.	N/A

NR/L2/SIG/11201/Mod A5-5	Signalling Control Centres	1	01/12/2018	2	Y	Y	N	Y	See below.	Updates needed to include ETCS symbols on control screen plus TMS functionality.	See below.	See below.	3
					Y	Y	N		Section 1 - 4	N/A	No change.	N/A	N/A
					N	N	N		Section 5.1 - 5.2	N/A	No change.	N/A	N/A
					Y	Y	N		Section 5.3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	Y	N		Section 5.4	N/A	No change.	N/A	N/A
					Y	Y	N		Section 6.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	Y	N		Section 6.2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	Y	N		Section 6.3	Route selection of ETCS route classes not covered.	Add additional bullet points to cover route selection of ETCS route classes (FS / OS / LS).	Route selection of ETCS route classes.	N/A
					Y	Y	N		Section 6.4 - 6.6	N/A	No change.	N/A	N/A
					Y	Y	N		Section 7 - 9	N/A	No change.	N/A	N/A
					Y	Y	N		Section 10.1	Control centre functional requirements for ETCS RSPs not specified.	Add an additional section, similar to Section 10.1, covering functional requirements for ETCS RSPs.	Functional requirements for ETCS RSPs not specified.	N/A
					Y	Y	N		Section 10.2 - 10.4	N/A	No change.	N/A	N/A
					N	N	N		Section 10.5	N/A	No change.	N/A	N/A
					Y	Y	N		Section 10.6	N/A	No change.	N/A	N/A
					Y	Y	N		Sections 11 - 13	N/A	No change.	N/A	N/A
					N	Y	N		Sections 14 - 15	N/A	No change.	N/A	N/A
					Y	Y	N		Appendix A	Requirements for ETCS route setting facilities and ETCS RSP indications not provided.	Add additional text specifying requirements for ETCS route setting with those for conventional	Requirements for ETCS route setting facilities and ETCS RSP indications.	N/A

											main, warning, etc routes. Add additional text specifying requirements for ETCS RSP indications with those for signals.		
					N	N	N		Appendices B & C	N/A	No change.	N/A	N/A
					Y	Y	N		Sections D1.1 - D1.5	N/A	No change.	N/A	N/A
					Y	Y	N		Section D1.6	Requirements for ETCS route setting facilities and ETCS RSP indications not provided.	Add additional sub-section covering ETCS RSPs and control of ETCS routes from them.	Requirements for ETCS route setting facilities and ETCS RSP indications.	N/A
					Y	Y	N		Section D1.7	N/A	No change.	N/A	N/A
					Y	Y	N		Section D2	Colours and symbols for ETCS RSPs not provided. [Equivalent details for signals and TVM block section markers are provided.]	Add specifications of colours and symbols to be used for ETCS RSPs.	Colours and symbols for ETCS RSPs.	N/A
NR/L2/SIG/11201/Mod A5-6	CAD Cell Library	5	01/12/2018	2	N	N	N	N	None	Standard specifies cell libraries and processes associated with them, but not individual cells. No updates are needed for Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B1	General Introduction	5	01/12/2018	2	Y	Y	Y	Y	See below.	Minor updates to scope needed to include C-DAS as part of signalling system.	See below.	See below.	3
					Y	Y	Y		Sections 1 - 3	N/A	No change.	N/A	N/A
					Y	Y	Y		Sections 4	C-DAS omitted from scope of signalling system.	Add C-DAS the list of signalling system elements.	C-DAS	N/A

NR/L2/SIG/11201/Mod B2	Safety Hazards	5	01/12/2018	2	N	N	N	N	None	Standard does not currently cover Digital Railway hazards. These would be better covered in dedicated Digital Railway standards rather than through updates to this standard.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B3	Circuits - General	7	01/12/2018	2	N	N	N	N	None	Minimal circuits needed for Digital Railway technologies. No new changes to requirements of standard envisaged.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B4	Circuits - Fusing & Looping of Signalling Functional Circuits	5	01/12/2018	2	N	N	N	N	None	Minimal functional circuits needed for Digital Railway technologies. No new changes to requirements of standard envisaged.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B5	Circuits - Electromagnetic Compatibility of Electronic Equipment	5	01/12/2018	2	Y	Y	Y	N	None	Specific electromagnetic compatibility (EMC) guidance is given for a variety of technologies, but none for Digital Railway equipment.	Either add sections covering EMC guidance for Digital Railway equipment or explicitly exclude it from the scope of the document	EMC guidance for Digital Railway equipment.	N/A
NR/L2/SIG/11201/Mod B6	Circuits - Insulation and Earthing for Occupational Safety	5	01/12/2018	2	Y	Y	Y	N	None	Requirements of standard are technology agnostic, hence no updates required for Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B7	Interlockings - General	7	01/12/2018	2	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		General	Term 'SPAD' is used where text could equally well apply to a train exceeding the limits of their authorities to move in lines signalled with ETCS Level 2.	At the start of the standard state that 'SPAD' also refers to a train operating under ETCS Level 2 exceeding the	Equivalent ETCS term for SPAD.	N/A

											limits of its authority to move (whether given by an ETCS MA or degraded mode written order).		
					Y	N	N		Sections 0 - 2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3 - start of 3.2.1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Section 3.2.1 - 3.2.4 (inclusive)	Requirements assume movement authorities issued by signals, however many equally apply to issue of ETCS MAs.	Add additional sub-section 'Issue of MAs on lines signalled with ETCS Level 2 where lineside signals are not provided.'	Application of interlocking principles to issue of ETCS MAs.	N/A
					Y	N	N		Section 3.2.5	Requirements for warning arrangements are not appropriate for ETCS as speed is continuously supervised.	Indicate that section as not applicable to ETCS Level 2 where lineside signals are not provided.	N/A	N/A
					Y	N	N		Section 3.2.6	Text refers to permissive moves being authorised by subsidiary signals, but such moves could also be authorised by ETCS MAs in On Sight (OS) mode.	Modify text to allow permissive moves to be authorised by ETCS OS MAs as well as subsidiary signals.	Application of interlocking principles to issue of ETCS MAs.	N/A
					Y	N	N		Section 3.2.7	Requirements refer to shunt moves being authorised by shunting or subsidiary signals. This may remain the case in specific locations under ETCS Level 2 without lineside signals (e.g. to support propelling moves); in others shunting	Modify text to allow shunting moves to be authorised by ETCS MAs as well as shunting / subsidiary signals.	Application of interlocking principles to issue of ETCS MAs.	N/A

									movements will be authorised by ETCS MAs.				
					Y	N	N		Section 3.2.8	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.2.9	Text refers to slotting and releases for signals, but could also apply to issuing ETCS MAs from RSPs.	Extend text to cover slotting / releases of RSPs and issue of ETCS MAs from them.	Application of interlocking principles to issue of ETCS MAs.	N/A
					Y	N	N		Section 3.2.10	Approach control in Situations 1-6 is not required for ETCS Level 2 without lineside signals as speed is continuously supervised. Approach control may, however, still be required in the following scenarios: - to mitigate the risk of brake intervention when transitioning from FS mode to OS mode (ETCS Baseline 2 only).	Indicate where approach control scenarios are not applicable to ETCS Level 2 and specify where approach control may be used in such schemes.	Application of approach control to mitigate risk of brake intervention when transitioning for ETCS FS mode to OS mode (ETCS Baseline 2 only).	N/A
					Y	N	N		Section 3.2.11	Text refers to automatic working of signals, but could also apply to automatic working of ETCS RSPs.	Extend text to cover automatic working of ETCS RSPs.	Application of automatic working to ETCS RSPs.	N/A
					Y	N	N		Section 3.2.12	Text refers to delayed clearance of signals, but could also apply to delayed issuing of ETCS MAs from RSPs.	Extend text to cover automatic working of ETCS RSPs.	Application of delayed clearance to ETCS RSPs.	N/A
					Y	N	N		Section 3.2.13	Text refers to 'signal route setting,' but could also apply to route setting from ETCS RSPs.	Change 'Signal route setting' to 'Route setting.'	Application of no signaller route setting to ETCS RSPs.	N/A

					Y	Y	N		Section 3.3 to start of Section 3.3.1	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.1 a), b), e), h)	Requirements for placement of track section joints relative to signals in appropriate for schemes signalled with ETCS Level 2 where lineside signals are not provided.	Equivalent requirements for positioning track section joints in accordance with ETCS Reference Design.	Track section requirements around block section boundaries on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 3.3.1 c) - d), f), g), i), j)	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.2	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.3	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.3 a)	On lines signalled with ETCS Level 2, released of locking can be achieved using ETCS position reports. However, where this is the case, there remains a need for an alternative method of release should an ETCS position report not be received. Requirements for this are not currently covered by the standard.	Expand section to cover fall-back release of locking, in the event that an ETCS position report is not received, on lines signalled with ETCS Level 2.	Timer values for fall-back release of locking on lines signalled with ETCS Level 2 to cover scenarios in which locking cannot be released by a timer.	N/A
					Y	N	N		Section 3.3.3 b)	On lines signalled with ETCS Level 2 (Baseline 2), timing at a stand can be used to mitigate the risk of brake interventions when transitioning from FS to OS mode in scenarios where trains would be timed nearly to a stand for approach control of a subsidiary signal. As in 3.3.3 a) uses	Add section to cover requirements for timed approach control at ETCS FS to OS mode transitions.	Timing to a stand to mitigate risk of brake intervention when transitioning for ETCS FS mode to OS mode (ETCS Baseline 2 only).	N/A

									of timers would be an alternative to use of train position reports.				
					N	N	N		Section 3.3.3 c) & d)	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.3 e)	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.3.4	Term 'signal aspect controls' is used for text that could also apply to issue of ETCS MAs.	Change 'Signal aspect controls' to 'Signal aspect / ETCS MA controls.'	Application of foul track section requirements to ETCS Level 2 where signals are not provided .	N/A
					Y	N	N		Section 3.3.5	Term 'protecting signal' is used for text that could also apply to a protecting ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	N/A	N/A
					Y	N	N		Sections 3.4.1 & 3.4.3	Overlap lengths are inappropriate for ETCS Level 2 where lineside signals are not provided as overlaps, where provided at all, serve a different purpose. Whereas in conventional signalling they provide a safe overrun distance, in ETCS they enable trains to approach ETCS block markers with a release speed.	Provide additional section covering requirements for overlaps on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A	N/A
					Y	N	N		Sections 3.4.2, 3.4.4 - 3.4.6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
					N	N	N		Sections 3.4.7 - 3.4.8	N/A	No change.	N/A	N/A
					Y	N	N		Section 3.5 to start of 3.5.1	Term 'signal aspect controls' is used for text that could also apply to issue of ETCS MAs.	Change 'Signal aspect controls' to 'Signal aspect / ETCS MA controls.'	N/A	N/A

					Y	N	N		Section 3.5 (all)	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with points.	N/A
					Y	N	N		Section 3.6 (all)	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with ground frame releases.	N/A
					Y	N	N		Section 3.7 (all)	ETCS Level 2 replacement, approach locking release conditions and automated route cancellation not covered. These have significant differences from conventional signal replacement and approach locking conditions due to the fact that ETCS MAs are presented in cab rather than from lineside signals at fixed locations.	Add additional sections to cover replacement, approach locking release and automated route cancellation conditions for ETCS Level 2.	ETCS Level 2 replacement, approach locking release conditions and automated route cancellation.	N/A
					Y	N	N		Sections 3.8 (all) & 3.9 (all)	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with points.	N/A
					Y	N	N		Section 3.10	N/A	No change.	N/A	N/A
					N	N	N		Section 3.11	N/A	No change.	N/A	N/A
					N	N	N		Section 4	N/A	No change.	N/A	N/A
					N	N	N		Section 5	N/A	No change.	N/A	N/A
					N	N	N		Section 6	N/A	No change.	N/A	N/A
					Y	N	N		Section 7 (all)	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	N/A	N/A
NR/L2/SIG/11201/Mod B8	Interlockings - Level Frame Interlocking Guidelines	5	01/12/2018	2	N	N	N	N	None	It is assumed that Digital Railway schemes will only use mechanical signalling in exceptional circumstances and then only for	No change.	Nil	N/A

										ground frames with moves conducted in ETCS Shunt mode and the ground frames operating to existing requirements.			
NR/L2/SIG/11201/Mod B9	Interlockings - Free Wired Route Setting Interlocking Guidelines	5	01/12/2018	2	N	N	N	N	None	It is assumed that Digital Railway schemes won't use free wired relay interlockings. Interfaces to relay interlockings at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B10	Interlockings - Geographic Relay Interlocking Guidelines	5	2nd June, 2012	2	N	N	N	N	None	It is assumed that Digital Railway schemes won't use geographic relay interlockings. Interfaces to relay interlockings at fringes are outside of the scope of this review and, requiring site-specific arrangements, unlikely to necessitate changes to this standard.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B11	Interlockings - Electronic Interlocking Guidelines	5	2nd June, 2012	2	Y	N	N	N	None	No changes to requirements of standard envisaged as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B12	Transmission Systems - (Cable terminations & Cable routes)	5	2nd June, 2012	2	Y	Y	Y	N	None	No changes to requirements of standard envisaged as a result of Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B13	Points - General	5	2nd June, 2018	2	Y	N	N	N	None	No changes to requirements of	No change.	Nil	N/A

										standard envisaged as a result of Digital Railway.			
NR/L2/SIG/11201/Mod B16	Points - SSI Application	4	4th June, 2011	2	N	N	N	N	None	Detail of SSI TFM to points interface not relevant to Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B17	Signals - General	5	03/09/2011	2	Y	N	N	N	None	Requirements pertaining to shunt signals relevant to Digital Railway schemes. No changes to these requirements envisaged as a result of Digital Railway (based on ETCS Level 2 without signals).	No change.	Nil	N/A
NR/L2/SIG/11201/Mod B19	Signals - Relay Circuits	5	01/12/2018	2	N	N	N	N	None	Detail of relay interfaces to signals not relevant to Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X01	Signalling Design: Module X01 - Level Crossings: General	1	03/09/2011	2	N	N	N	N	None	Standard does not cover signalling arrangements hence changes brought about by Digital Railway are out of scope.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X02	Signalling Design: Module X02- Level Crossings: Common Design Requirements	2	01/12/2012	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at level crossings.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					N	N	N		General	Standard doesn't cover triggering of level crossing closure / re-opening to road traffic based on ETCS position reports.	Add new section covering use of ETCS position reports to trigger level crossing closure / re-opening.	Use of ETCS position reports to trigger level crossing closure / re-opening.	N/A

					N	N	N		Sections 1 - 7	N/A	No change.	N/A	N/A
					N	N	N		Sections 8.1.1 - 8.1.9	N/A	No change.	N/A	N/A
					Y	N	N		Section 8.1.10	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	Signalling arrangements for level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					N	N	N		Sections 8.1.11 - 8.1.21	N/A	No change.	N/A	N/A
					N	N	N		Sections 9-15	N/A	No change.	N/A	N/A
					Y	N	N		Sections 16	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	N/A	N/A
					N	N	N		Sections 17-18	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X10	Signalling Design: Module X10 - Level Crossings: Automatic Half Barriers	1	03/09/2011	2	Y	N	N	Y	See below.	Some updates already made for ETCS, though more needed to cover future ETCS arrangements at AHB crossings (e.g. use of Packet 88).	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / ETCS RSP.'	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 2 & 3	Standard does not allow for triggering of AHB level crossing closure & re-opening by ETCS position report.	Modify requirements to allow for triggering of AHB level crossing closure	Triggering of AHB level crossing closure & re-opening by ETCS position report.	N/A

											& re-opening by ETCS position report as well as track circuits / treadles.		
					Y	N	N		Sections 4 & 5	N/A	No change.	N/A	N/A
					Y	N	N		Section 6	Term 'protecting signal' is used for text that could also apply to an ETCS RSP.	Change 'protecting signal' to 'protecting signal / RSP.'	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 7 - 9	N/A	No change.	N/A	N/A
					Y	N	N		Section 10 - 14	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
NR/L2/SIG/11201/Mod X11	Signalling Design: Module X10 - Level Crossings: Automatic Half Barriers	1	01/12/2012	2	Y	N	N	Y	See below.	Some updates already made for ETCS, though more needed to cover future ETCS arrangements at ABCL crossings (e.g. use of Packet 88).	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	N/A	No change.	N/A	N/A
					Y	N	N		Sections 2 & 3	Standard does not allow for triggering of ABCL level crossing closure & re-opening by ETCS position report.	Modify requirements to allow for triggering of ABCL level crossing closure & re-opening by ETCS position report as well as track circuits / treadles.	Triggering of AHB level crossing closure & re-opening by ETCS position report.	N/A
					Y	N	N		Sections 4 - 10	N/A	No change.	N/A	N/A

					Y	N	N		Section 11	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 12 & 13	N/A	No change.	N/A	N/A
					Y	N	N		Sections 14 & 15	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					N	N	N		Section 16	Provision of AWS is not appropriate on lines signalled with ETCS Level 2 where lineside signals are not provided.	Clarify that AWS is not required on lines signalled with ETCS Level 2 where lineside signals are not provided.	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 17 & 18	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AHB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 18	ETCS approach locking requirements not covered.	Add ETCS approach locking requirements.	ETCS approach locking requirements.	N/A
					Y	N	N		Section 19	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X12	Signalling Design: Module X12 - Level Crossings: Automatic Open Crossing Locally Monitored	2	01/12/2012	2	Y	N	N	Y	See below.	Some updates already made for ETCS, though more needed to cover future ETCS arrangements at AOCL crossings (e.g. use of Packet 88).	See below.	See below.	3

					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	N/A	No change.	N/A	N/A
					Y	N	N		Sections 2 & 3	Standard does not allow for triggering of AOCL level crossing closure & re-opening by ETCS position report.	Modify requirements to allow for triggering of AOCL level crossing closure & re-opening by ETCS position report as well as track circuits / treadles.	Triggering of AOCL level crossing closure & re-opening by ETCS position report.	N/A
					Y	N	N		Sections 4 - 9	N/A	No change.	N/A	N/A
					Y	N	N		Sections 10 & 11	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AOCL level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 11	ETCS approach locking requirements not covered.	Add ETCS approach locking requirements.	ETCS approach locking requirements.	N/A
					Y	N	N		Sections 12 & 13	N/A	No change.	N/A	N/A
					Y	N	N		Sections 14 & 15	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AOCL level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 16	Provision of AWS is not appropriate on lines signalled with ETCS Level 2 where lineside signals are not provided.	Clarify that AWS is not required on lines signalled with ETCS Level 2 where lineside signals	Signalling arrangements for AOCL level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A

											are not provided.		
					Y	N	N		Section 17	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Signalling arrangements for AOCL level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 18	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X13	Signalling Design: Module X13 - Level Crossings: Automatic Open Crossing Locally Monitored Plus Barriers	1	03/09/2011	2	N	N	N	N	None	Standard covers only differences from normal AOCL / ABCL crossings. These differences are not believed to be impacted by Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X14	Signalling Design: Module X14 - Level Crossings: Automatic Open Crossing With Additional Flashing Lights	1	03/09/2011	2	N	N	N	N	None	Standard covers only differences from normal AOCL / ABCL crossings. These differences are not believed to be impacted by Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X20	Signalling Design: Module X20 - Level Crossings: Manned Gated Crossings	1	03/09/2011	2	Y	N	N	N	None	ETCS arrangements at gated crossings.	Update standard to either prohibit use of gated crossings on lines signalled with ETCS Level 2 where lineside signals are not provided or specify how they should be interlocking with ETCS RSPs.	Nil	N/A
NR/L2/SIG/11201/Mod X21	Signalling Design: Module X21 - Level Crossings: Manually Controlled Barriers With Obstacle Detectors	3	01/12/2012	2	Y	N	N	Y	See below.	See below.	See below.	See below.	3

					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Sections 1 - 3	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.' Also note that references to AWS are not applicable to ETCS RSPs.	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 2 & 3	Standard does not allow for triggering of Auto Raise / Auto Lower by ETCS position report.	Modify requirements to allow for triggering of Auto Raise / Auto Lower by ETCS position report as well as track circuits / treadles.	Triggering of Auto Raise / Auto Lower by ETCS position report.	N/A
					Y	N	N		Sections 4 - 8	N/A	No change.	N/A	N/A
					Y	N	N		Section 9	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 10	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X22	Signalling Design: Module X22 - Level Crossings: Manually Controlled Barriers	2	01/12/2012	2	Y	N	N	Y	See below.	See below.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Sections 1 & 2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 3	N/A	No change.	N/A	N/A

					Y	N	N		Section 4	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 5	N/A	No change.	N/A	N/A
					Y	N	N		Section 6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 6	Standard does not allow for triggering of Auto Raise by ETCS position report.	Modify requirements to allow for triggering of Auto Raise by ETCS position report as well as track circuits / treadles.	Triggering of Auto Raise by ETCS position report.	N/A
					Y	N	N		Sections 7 - 9	N/A	No change.	N/A	N/A
					Y	N	N		Sections 10 & 11	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.' Also note that references to AWS are not applicable to ETCS RSPs.	Signalling arrangements for MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Section 11	Standard does not allow for triggering of Auto Lower by ETCS position report.	Modify requirements to allow for triggering of Auto Lower by ETCS position report as well as track circuits / treadles.	Triggering of Auto Lower by ETCS position report.	N/A
NR/L2/SIG/11201/Mod X23	Signalling Design: Module X23 - Level Crossings: Manually Controlled Barriers With Closed Circuit Television	1	03/09/2011	2	N	N	N	N	None	Standard covers only differences between MCB & MCB-CCTV crossings. These differences are not believed to be impacted by Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X24	Signalling Design: Module X24 - Level Crossings: On Call Barriers	2	01/12/2012	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at OCB level crossings.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not	Add section clarifying requirements	ETCS (Packet 88) Level crossing functionality.	N/A

										covered.	for use (or not) of ETCS (Packet 88) Level Crossing functionality.		
					Y	N	N		Section 1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Signalling arrangements for On Call MCB level crossings on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 2 - 7	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X25	Signalling Design: Module X25 - Wicket Gate Magnetic Locks	1	03/09/2011	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements around wicket gates with magnetic locks.	See below.	See below.	3
					Y	N	N		Section 1	N/A	No change.	N/A	N/A
					Y	N	N		Section 2	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with wicket gate magnetic locks.	N/A
					Y	N	N		Section 3	N/A	No change.	N/A	N/A
					Y	N	N		Sections 4 - 5	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Arrangements for interlocking ETCS RSPs and MAs with wicket gate magnetic locks.	N/A
NR/L2/SIG/11201/Mod X30	Signalling Design: Module X30 - Traincrew Operated Gates	1	03/09/2011	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at train crew operated gates.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	Fixed distant / reflectorized distant board not appropriate for lines signalled with ETCS Level 2 where lineside signals are	Clarify that fixed distant / reflectorized distant board is not required on lines signalled with ETCS Level	Signalling arrangements for train crew operated gates on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A

										not provided.	2 where lineside signals are not provided.		
NR/L2/SIG/11201/Mod X31	Signalling Design: Module X31 - Traincrew Operated Barriers	1	03/09/2011	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at train crew operated barriers.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	Fixed distant / reflectorized distant board not appropriate for lines signalled with ETCS Level 2 where lineside signals are not provided.	Clarify that fixed distant / reflectorized distant board is not required on lines signalled with ETCS Level 2 where lineside signals are not provided.	Signalling arrangements for train crew operated barriers on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					Y	N	N		Sections 2- 8	N/A	No change.	N/A	N/A
					Y	N	N		Section 9	Provision of AWS is not appropriate on lines signalled with ETCS Level 2 where lineside signals are not provided.	Clarify that AWS is not required on lines signalled with ETCS Level 2 where lineside signals are not provided.	Signalling arrangements for train crew operated barriers on lines signalled with ETCS Level 2 where lineside signals are not provided.	N/A
					N	N	N		Section 10	N/A	No change.	N/A	N/A
NR/L2/SIG/11201/Mod X39	System Application Specification for Overlay Miniature Stop Light Level Crossings	1	June, 2015	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at miniature stop light level crossings.	See below.	See below.	3
					Y	N	N		Sections 1 - 3	N/A	No change.	N/A	N/A
					Y	N	N		Sections 4 & 5	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with miniature stop light level crossings.	N/A
					Y	N	N		Sections 6 - 12	N/A	No change.	N/A	N/A

NR/L2/SIG/11201/Mod X40	Signalling Design: Module X40 - Level Crossings: Miniature Stop Lights	2	01/12/2012	2	Y	N	N	Y	See below.	Updates needed to cover ETCS arrangements at miniature stop light level crossings.	See below.	See below.	3
					Y	N	N		General	Use of ETCS (Packet 88) Level crossing functionality not covered.	Add section clarifying requirements for use (or not) of ETCS (Packet 88) Level Crossing functionality.	ETCS (Packet 88) Level crossing functionality.	N/A
					Y	N	N		Section 1	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with miniature stop light level crossings.	N/A
					Y	N	N		Section 2	N/A	No change.	N/A	N/A
					Y	N	N		Sections 3 & 4	Standard does not allow for triggering of MSL level crossing closure & re-opening by ETCS position report.	Modify requirements to allow for triggering of MSL level crossing closure & re-opening by ETCS position report as well as track circuits / treadles.	Triggering of MSL level crossing closure & re-opening by ETCS position report.	N/A
					Y	N	N		Sections 5 & 6	Term 'signal' is used for text that could also apply to an ETCS RSP.	Change 'signal' to 'signal / ETCS RSP.'	Arrangements for interlocking ETCS RSPs and MAs with miniature stop light level crossings.	N/A
					Y	N	N		Section 7	N/A	No change.	N/A	N/A
					Y	N	N		Section 8	Term 'signal' is used for text that could also apply to an ETCS RSP. Where this is the case, reference to a 'red aspect' is not applicable to RSPs.	Change 'signal' to 'signal / ETCS RSP' and change wording to show that 'red aspect' applies only to signals and not RSPs.	Arrangements for interlocking ETCS RSPs and MAs with ground frame releases.	N/A
NR/L2/SIG/11201/Mod X41	Signalling Design: Module X41 - Level Crossings: User Worked Barriers	1	03/09/2011	2	N	N	N	N	None	Updates need to cover application of track circuit block to lines signalled with ETCS Level 2.	No change.	Nil	N/A
NR/L2/SIG/11201/Mod X42	Signalling Design: Module X42 - Level Crossings: Power	1	03/09/2011	2	N	N	N	N	None	Power operated gates do no interface to the	No change.	Nil	N/A

	Operated Gate Openers									signalling system hence no updated believed necessary for Digital Railway.			
NR/L2/SIG/11201/Mod X99	Signalling Design: Module X18 - Level Crossings: History of Level Crossings	1	03/09/2011	2	N	N	N	N	None	Scope of document is level crossing history hence does not include Digital Railway.	No change.	Nil	N/A
NR/L2/SIG/30080	Axle Counter System - Operational and safety principles	1	05/09/2009	2	Y	Y	N	Y	None	Section 6.8 covers use in ERTMS areas	Nil - wording sufficient	Nil	N/A
NR/L2/SIG/30081	Axle Counter System Design Principles & Generic Application Rules	1	05/09/2009	2	N	N	N	N	None	technologically neutral as regards signalling control	No change.	Nil	N/A
NR/L2/SIG/30097/001	Modular Signalling Handbook	3	07/04/2014	2	N	N	N	N	None	Technologically Specific and not applicable to ERTMS	No change.	Nil	N/A
NR/L3/SIG/30082	Axle Counter System Handbook	2	04/12/2010	2	Y	N	N	Y	5.1, 6.4.9, 6.5.9	Technologically Specific and neutral as regards signalling control system but only lists protecting signals and does not mention Limit of Movement Authorities which might achieve the same protection	Expand to list Limit of Movement Authority	May need to consider degraded mode process when a section is protected by a marker board and Limit of Movement Authority - i.e. equivalent of aspect restriction.	3
NR/SP/SIG/02023	Requirements for TASS Infrastructure - System Design (formerly RT/E/S/02023)	2	03/12/2005	2	N	N	N	N	None	Technologically Specific to TASS and though balises are similar it does not relate to ERTMS	No change.	Nil	N/A
NR/SP/SIG/02026	Provision and Management of TASS Infrastructure Data (formerly RT/E/S/02026)	1	04/06/2005	2	Y	N	N	Y	6.1.3	Technologically Specific to TASS and though balises are similar it does not relate to ERTMS. However lists signalling plans as including TPWS loops	Expand to list ERTMS balises as item that may be found on site and shown on plans, thus potentially conflicting with TASS balises.	Update to include link to ETCS. What would happen if ETCS is overlaid on an existing TASS area?	2
Category 3 Standards: Implementation / Construction / Testing													
NR/L2/INI/CP0075	Procedure for the Entry into Operational Service of Railway	1	March 2011	3	Y	?	?	Y	See below.	See below.	See below.	No alignment with EU decisions covering interoperability regulations + see below.	1

	Infrastructure												
									General			The process for authorising an interoperable railway into revenue service needs to comply with the EU directive on interoperability (EU 2016/979). This process goes beyond traditional Network Rail entry into service requirements with additional formalised activities for V&V and safety authorisation. There may also be requirements where the fourth railway package applies to demonstrate to the ERA that the system is interoperable.	N/A
									General			Recommendation 3/1 It is suggested that NR/L2/INI/CP0075 be enhanced to provide guidance in the form of additional checklists covering the 'Placing in service' and 'Putting into	N/A
									4 - Roles & Responsibilities	No guidance on how to apply TSI's			N/A
									5 - procedure		Checklist to guide through the TSI authorisation to operate process		N/A
									6 - Entry into Service Strategy	Adequate as at high level	Guidance on TSI required		N/A
									7 - Entry into Service		Checklist for EIS of interoperable schemes required		N/A
									8 - Deferred items list	Adequate as at high level			N/A
NR/L3/INI/CP0044	Work Package Planning	4	June 2010	3	Y	?	?	Y	All sections	Document is based on delivery of site works. This will not be affected by simple introduction of digital railway, although other process changes as a result of DR may allow for different methods of working			1
NR/L3/INI/CP0077	Signalling Pre-Commissioning Verification	1	March 2011	3	Y	?	?	Y	General	Core document is fairly generic and points to checklist.	Checklists require revision to account for	<i>See below.</i>	1

	Requirements									Checklist doesn't cover DR elements	interoperable schemes		
												Recommendation as for NR/L2/INI/CP0075.	N/A
												Recommendation 3/2 Pre-commissioning checklists need to be updated to capture the requirements associated with producing evidence to support a statement of compliance with the interoperability regulations.	N/A
NR/L2/SIG/30014	Signalling Works Testing Handbook	13	March 2018	3	Y	?	?	Y	General	General Comment on handbook	Needs to account for V&V to CENELEC requirements. CSM not adequately covered Risk of installing Balises not covered, i.e. they are immediately active ETCS requires authority to operate this isn't captured. Test specs not traceable to requirements. This is necessary for V&V	<i>See below.</i>	1

											<p>The Network Rail SWTH is heavily focused and completely biased towards proving that a traditional conventional railway signalling system functions. The process is based on proving at individual component level, on the premise that the generic solution is known and well proven in the GB mainline railway environment, therefore if components operate correctly in relative isolation then subject to simple end to end proving the railway system will function adequately and safely. The SWTH has minimal requirements on demonstrating that pre-defined test specifications are adequate and takes little cognisance of applying system engineering controls. As such SWTH provides no traceability to core requirements, this makes the validation exercise required by CENELEC impracticable during a project delivery.</p>	N/A
											<p>A system based process is required for the testing of Digital Railway (DR) solution with a focus on generating evidence to demonstrate that functional requirements are satisfied and interfaces to other system elements are adequately proven. It is likely that the component specific test specifications can be re-used where applicable (and have been reviewed to confirm they meet the solution requirements) as part of the supporting evidence for the system validation activity and subsequent safety argument.</p>	N/A
											<p>There is little or no guidance on how to alter an operational railway utilising DR technology and subject to the interoperability regulations. The lack of guidance is likely to lead conventional works undertaken on interoperable infrastructure being unable to demonstrate compliance with the EU directive on interoperability, this may be considered to be a breach of legislation.</p>	N/A

											Roles described within SWTH continue to be applicable for trackside infrastructure signalling component testing, however they do not provide sufficient coverage for the DR system. The migration of a greater level of signalling functionality to the train equipment creates new roles to ensure the onboard system demonstrates compatibility and is integrated into the railway system.	N/A
											Configuration control is essential in ensuring the operational system is proven and maintained so as to be compatible. These roles for are likely to be within the Railway Undertaking (RU) organisation as opposed to the Infrastructure Managers (IM). The system integration must also capture the entire system with a role spanning across the RU and IM organisations. Consideration should be given to producing a Railway Industry Standard to define signalling testing role responsibilities between IM and RU for the GB mainline railway to align EU regulatory responsibilities with the GB operating licence arrangements.	N/A
											Recommendation 3/3 The SWTH should be enhanced to align with a risk based approach to testing in line with the requirements of CSM-RA. This would lead to a process allowing for a system approach to be taken whereby testing has greater focus on producing evidence to demonstrate safety and functional requirements have been satisfied.	N/A
											Recommendation 3/4 The Network Rail SWTH should be non-mandatory for elements of the DR system that are safety related rather than safety critical. The suppliers and system integrators should propose alternative arrangements that may or may not utilise elements of the existing SWTH to provide evidence of testing to support system validation and the safety argument for authorising placing in service.	N/A

											elements.		
NR/L2/SIG/30014/C110	Testing Strategy			3	Y	?	?	Y	General	Could be applied to DR related project using core headings.	Would be useful to provide guidance on defining tests in a way that can be used for traceability of requirements and V&V activities		1
NR/L2/SIG/30014/C120	Test Plan			3	Y	?	?	Y	General	Could be applied to DR related project using core headings.	Would be useful to provide guidance on defining tests in a way that can be used for traceability of requirements and V&V activities		1
NR/L2/SIG/30014/C210	Acceptance of Testing Planning Documentation	2	June 2012	3	Y	?	?	Y	General		Fairly high level and focused solely on TIC and IM. Mentions that acceptance of test plan confirms test plan meets test requirements, this appears to be a little under emphasised for what is a fairly substantial activity in a DR solution.		1
NR/L2/SIG/30014/C310	Check Marking and Recording on Test Copies			3	Y	?	?	Y	General		CENELEC requires the production of tests reports. NR process is based on a collation of individual test		1

											certificates to evidence test. No traceability to requirements		
NR/L2/SIG/30014/C410	Error Reporting	3	June 2012	3	Y	?	?	Y	See below.	See below.	See below.	See below.	1
									4.1 Reporting of system safety and operation errors and technical errors identified during signal works testing shall use the Test Log process,	The organisational structure needs to be determined before this document can be considered acceptable. Initial thoughts are that it would not align with a CENELEC CSM driven process for management of safety issues. Additionally option for paper based system would not be appropriate.	Alignment required with CENELEC and CSM for management of safety issues. Also needs to account for the highly integrated systems being developed at multiple lab sites.		N/A
									4.2.9 Process for deferring test log	This is fairly simplistic and likely to fail in providing adequate mitigations across a complex system	Agreement to defer open issues should be via technical panel review. In a DR solution it is highly unlikely that an on the decision will be required to restore the system to service, panel review is therefore viable	CENELEC CSM compliance	N/A
NR/L2/SIG/30014/C510	Handover of Signalling Works Testing	1	June 2012	3	Y	?	?	Y	General	Only covers physical items of equipment generally installed at a fixed location. Software based and mobile systems not covered. No traceability to control of software based systems, baselining etc.			1

NR/L2/SIG/30014/D... (multiple modules)	Signalling Works Test Specifications and certificates			3	Y	?	?	Y	General	Standardised equipment specific test specifications and check sheets do not demonstrate that a requirement has been satisfied. They may however provide some basic evidence to confirm equipment setup and position	The evidence provided from test needs to align with providing support for the Verification & Validation and the safety argument. Greater traceability of tests to requirements is required.		1
NR/L2/SIG/30014/E110	Signalling Works Testing Glossary	2	June 2012	3	Y	?	?	Y	General		Update to capture current terminology for DR systems or reference out to other documents	Suggest adding clarity over terms verification and validation. The glossary provides good description of verification testing and validation testing, however this not formal verification and validation through traceability of requirements and evidence. Requirements and requirements management should be defined	1
NR/L2/SIG/30014/F... (multiple modules)	Signalling Works Principles Testing			3	Y	?	?	Y	General		Limited to traditional interlocking functions. No traceability to requirements. No allowance for automation of tests. No guidance on how to manage split of interlocking type controls between multiple sub systems, IXL, RBC, EVC. No segregation between safety, safety related or functional controls. No guidance on how to test multiple		1

											layered systems e.g. overlay. No guidance on performing simulated or real dynamic tests.		
NR/L2/SIG/30014/G... (multiple modules)	Signalling Non- Conceptual Works and Emergency Testing			3	Y	?	?	Y	General			Consideration required for control of temporary changes such as TSR, route none availability	1
NR/L3/SIG/11303	Signalling Installation (Formerly RT/E/S/11303)	7		3	Y	?	?	Y	General	Products to be added as required. Balises may have specific installation restrictions for a site, this isn't captured. Risk of using an inappropriate spec e.g. TASS. No controls over installing a Balise on an operational railway that may already be using a Balise based system		<i>See below.</i>	1
												There is little or no guidance on how to protect the operational railway utilising DR technology during the physical site preparatory works for introducing changes to the railway system.	N/A
												Taking Balises as an example, a Balise is immediately active when installed if it hasn't been physically or virtually masked. The impact of installing Balises on to a railway with ETCS fitted trains or an operational ETCS trackside must therefore be fully considered and risks mitigated as part of the testing strategy / methodology.	N/A

NR/L3/SIG/11303/1X05	Good House Keeping Practice	2		3	Y	?	?	Y	General	General guidance no issue for DR	No change.		N/A
NR/L3/SIG/11303/1X10	Common Pitfalls	2		3	Y	?	?	Y	General	Very limited coverage. Document intent is provide REX.			1
NR/L3/SIG/11303/2... (multiple sections)	Various equipment specifics			3	Y	?	?	Y	General	Section 2 covers equipment specific installation requirements. There is very limited in relation to DR type equipment			1
NR/L3/SIG/11303/2Y05	TASS Balise	2		3	Y	?	?	Y	General	Specific to TASS. ETCS balise will have different constraints to comply with subsets			1
NR/SP/SIG/02024	Requirements for TASS Infrastructure " Installation. Test and Maintenance (formerly RT/E/S/02024)	2	December 2005	3	Y	?	?	Y	Not applicable to ETCS as TASS is solution specific. Risk of this being used as a reference for ETCS when it's not suitable e.g. not aligned with subset 36 for balise rules	Not applicable, this is TASS specific	No change.		N/A
RT/E/C/11724	Signalling Works Test Specifications and Historical Test Value Data (NR/GN/SIG/11724)	1	37408	3	N	N	N	N	Historic document in process of being phased out as the NR/L2/SIG/3001 4 standard develops	Not reviewed as being phased out by transfer to 30014	No change.		N/A

Category 4 Standards: Maintenance / Operations

NR/L3/INF/AK0025 This standard is branded as "HISTORIC"	Asset Data Maintenance Reference Data Change	2	26/08/2008	4	Y	Y	Y	N	None	This standard instructs on how to update Ellipse so is not specific to any type of asset.	No change.	Nil	N/A
NR NR/L2/MTC/02020	Ellipse for Network Rail Work Management	7	26/08/2008	4	Y	Y	Y	N	None	This standard is high level and only instructs on the update process and is not specific to any type of asset.	No change.	Nil	N/A

NR/L2/MTC/088	Responsibility for Maintenance of Changes Assets	4	06/06/2009	4	Y	Y	Y	N	None	Spreadsheet shows this document at Revision 3. This standard is generic and not asset specific.	No change.	Nil	N/A
NR NR/L3/EBM/089	Asset Management Plan (aka NR/L3/MTC/089)	1	06/06/2018	4	Y	Y	Y	N	None	Generic document not specific to any asset.	No change.	Nil	N/A
NR/L2/MTC/PL0175	Infrastructure Maintenance Planning Handbook	6	02/02/2018	4	Y	Y	Y	N	None	Generic document not specific to any asset.	No change required. Described as L3 document on spreadsheet.	Nil	N/A
NR/L2/SIG/10028	Supervisory Inspection of Signalling Assets	7	05/12/2015	4	Y	Y	Y	Y	05/03/2016	Does not include ETCS equipment in inspection lists	Update inspection lists to include ETCS specific equipment,	An inspection list is required for ETCS equipment, typically this should include - Euro Balise, Block and Shunt Entry Markers and RBC	5
NR/L2/SIG/10047	Management Of Safety Related Reports For Signalling & Telecoms Failures	16		4	Y	N	N	N	None	Generic document not specific to any asset.	No change.	Nil	N/A
NR/L3/SIG/10064	General Instructions to Staff Working on S&T Equipment (formerly NR/SP/SIG/10064)	6	31/05/2018	4	Y	N	N	Y	General	Large document with many sections any of which may require updating.	Consider what is best to do, should there be a new ETCS section, a separate book or add to what already exists. Described as L2 document on spreadsheet.	Consider what is best to do, should there be a new ETCS section, separate book or add to what already exists.	5
NR/L2/SIG/11010	Management of Signalling and Communication Systems (Formerly RT/E/S/11010)	3	03/09/2011	4	Y	Y	Y	Y	5 Application	There is no reference to a RBC	Reference to a RBC may required.	Consider if a reference to an RBC should be added to section 5 which will be the same as the interlocking requirement.	5
NR/L3/SIG/10046	SINCS (Signalling) for Network Rail Fault Management	1	05/03/2011	4	Y	N	N	Y	Appendix A	Does not require data retrieved from any event logging system to be listed when reporting the event. This is even where that information has been used to guide or influence the investigation into an event.	"Appendix A Information to be included in each SINCS record" does not require information retrieved from any type of event logging system to be listed. There is	Not specific to ETCS however, event logging data is a valid source of information perhaps not conclusive evidence in some cases but can be very useful supporting information when conducting or reviewing an event. NR should consider including data logging information in Appendix A.	5

											a caveat noting the "List is not exhaustive". However with the increase in data logging generally and the ability to interrogate messages between the RBC and the OBU for example it seems logical to include such a requirement.		
NR NR/L3/SIG/10661	Signalling Maintenance Task Intervals	16	31/05/2018	4	Y	Y	Y	N	None	This document is a live document that is updated when new maintenance tasks are introduced. It does not require updating as part of this project. This is because updates are automatically included as new equipment is introduced to 10663 the SMS.	No change.	Nil	N/A
NR/L3/SIG/19810	Signal Engineering Involvement in Civil Engineering	2	26/08/2008	4	Y	N	N	Y	Various sections or produce a separate ETCS standard.	No mention of ETCS equipment and maintaining its position nor the criticality of maintaining the length of line.	The document either requires updating to cover all aspects of the interface between Civil Engineering works and ETCS or the creation of a new standard for ETCS fitted lines.	ETCS is not mentioned in this standard.	5

NR/L2/SIG/20047	Management of Safety Related Reports for Signalling Failures Appendix	2	02/09/2018	4	Y	N	N	Y	Table 4f	ETCS list requires update	<p>Table 4f – Hazard Index – ETCS – Additions DMI displays old or incorrect safety information and the train is supervised to comply with this information. DMI displays old or incorrect safety information but the train is supervised correctly by the EVC. The train is sent incorrect safety critical information by the RBC. Train under ETCS supervision passes the “Danger Point” Amendments The term “Stop Marker” is used should this be amended to “Block Marker” The term “Location Marker” is used, not sure what this refers to? The term “Permissible Speed Board” is used should this be amended to “Degraded Mode Speed Indicator”?</p> <p>Missing Items There are no entries for Euro Balise failure</p>	ETCS equipment is not adequately covered by this standard.	5
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											modes or Lineside Encoder Units. Also need to consider entries relating to TSRs that have been entered but are either not uploaded to the RBC or the information uploaded has been corrupted.		
NR NR/L3/SIG/30011	Signalling Equipment Support Specification	1	01/06/2008	4	Y	Y	Y	N	None	Generic standard which unless there is a desire to change service levels it is suitable for continued use unchanged	No change.	Nil	N/A
NR/L3/SIG/MG0110	Imposition and Removal of Emergency and Temporary Speed Restrictions	3	02/06/2012	4	Y	N	N	Y	Where the detail is required will depend on how NR wish to either distribute the information or it could be a new section.	Only describes the effect of an ESR or TSR on signalling equipment on a classic signalled railway. Recommend an ETCS standard is created.	Either this document requires an update to include lines where L2 ETCS is in operation or a separate new standard should be created. Because there are and will be more lines signalled using overlay and underlay systems a common standard is likely to be the most logical approach	How to impose or remove an ESR or TSR on a L2 railway is not described in this standard.	3

NR NR/L3/SIG/SG0111	Design of Emergency and Temporary Speed Restrictions	3	03/09/2011	4	Y	N	N	Y	Where the detail is required will depend on how NR wish to either distribute the information or it could be a new section.	Only describes design of an ESR or TSR on a classic line.	Either this document requires an update to include lines where L2 ETCS is in operation or a separate new standard should be created. Because there are and will be more lines signalled using overlay and underlay systems a common standard is likely to be the most logical approach	How to design an ESR or TSR on a L2 railway is not described in this standard.	3
NR NR/L3/SIG/SG0163	Management of Data from Logging Systems and Event Recorders	3	03/09/2011	4	Y	N	N	N	None	This is a generic standard which describes the process to be followed to retrieve recorded data. This standard is not likely to require an update because each installation is likely to have detailed bespoke arrangements to retrieve data.	No change.	Nil	N/A
NR/SIG/10663	Signal Maintenance Specification (SMS)	8	31/05/2018	4	Y	Y	Y	N	None	This document is a live document that is updated regularly with the introduction of additional maintenance tasks. It does not require updating as part of this project because it will be automatically update as new equipment is	No change.	Nil	N/A

										introduced as part of the product approval process.			
NR/SIG/10665	Reliability Centred Maintenance of Signalling Equipment (ROSE)	15	31/05/2018	4	Y	Y	Y	N	None	This document is a live document that is updated regularly with the introduction of new equipment and additional maintenance tasks. It does not require updating as part of this project because it will be automatically update as new equipment is introduced to 10663 SMS as part of the product approval process.	No change.	Nil	N/A
NR/SIG/11231/Index	Signalling Maintenance Testing Handbook (NR/SMTH)	11	03/03/2018	4	Y	?	?	N	None	This document is a live document that is updated regularly with the introduction of new equipment. It does not require updating as part of this project because it will be automatically update as new equipment is introduced as part of the product approval process.	No change.	Nil	N/A
NR/L2/AMG/02250 Issue 3 26/08/2008 Superseded by NR NR/L2/AIF/001 ISSUE 1 both documents are stamped as HISTORICAL	Asset Data Management			4	?	?	?	N	Unable to locate	HISTORICAL document	HISTORIC document	HISTORIC document	N/A

NR/L2/RMVP/1332	Wheelset and Axle Bearing Manual	4	01/09/2017	4	Y	N	N	N	New section may be required	Is there a standard that specifies the tolerance of wheel diameters on the same axle of an ETCS fitted vehicle?	This document is about the wheelset and axle construction, inspection, maintenance, repair and scrapping. It describes the diameter differential that are permissible on the same wheelset but then refers you to the "Maintenance Plan" for the measurements.	Confirmation to be sought if there is a standard that defines the diameter differential measured across the tread of wheels on the same axle and if that is compliant with ETCS fitted vehicles. These differences are described in this document but for details you are referred to the "Maintenance Plan" No Change is required to this document but conformation of compliant wheelset diameter differentials should be sought from the vehicle "Maintenance Plan"	N/A
NR/L2/RVE/01327	Depot Facilities	1	01/06/2008	4	N	N	N	N	New section maybe required	This standard details the construction of a Depot or Siding used by NR for maintenance of vehicles but does not concern itself with things such as AWS test magnets.	Determine if a test or National Values Balise is required at depots where maintenance or repairs to ETCS fitted trains is undertaken.	Unable to locate a standard that details where things such as AWS test magnets test or national values Balise are required or maybe they aren't? If there is such a standard it will require updating.	N/A
NR/L3/AIF/003	Asset data management for Ellipse and GEOGIS	1	14/12/2010	4	Y	Y	Y	N	None	None	This document describes the process to update Ellipse and Geogis and is not equipment specific.	Nil	N/A
NR/L2/CTM/011	Competence & Training In Track Engineering (NR/L2/CTM/011)	1	31/12/2006	4	Y	N	N	Y	New competence module for ETCS required	TR 13 clause 3 "How to establish speed boards" There are many other references to speed raising although they generally refer to the fitness of the asset not the "how to"	There is no mention of the competence measurement for the imposition and removal of ESR and/or TSR on a L2 railway.	There is a need to include an additional competence module for the imposition and removal of ESR and/or TSR on a L2 railway. It should be noted there is not a module for assessing this competence on a classic line currently in the standard. Suggest a single module is written to measure competence for L2, overlay, underlay and classic railways.	5

NR/L2/CTM/012	Competence and Training In Signal Engineering (formerly NR/SP/CTM/012)	3	02/06/2012	4	Y	Y	Y	Y	Module Sig 7, new module for Block and Shunt Entry Markers.	There is no specific mention of an RBC, Euro Balise or Block Markers in the child sections of the assessed modules.	Introduce a separate ETCS module or include within the most suitable parent asset children	Not all ETCS equipment is not listed in the competence modules. We propose their are two options the first is to create an ETCS assessment module or alternatively add individual assets to existing modules as follows: Add the Euro Balise to Sig 7: Undertake corrective and preventative maintenance of electrical signals including AWS and TPWS. ERTMS is already subject to assessment in Sig. 19: Undertake corrective and preventative maintenance of electronic based interlocking. There does not appear to be a module suitable for the inclusion of Block and Shunt Entry Markers or for that matter classic boards that give instructions to train drivers. The signallers equipment falls under module NR/L2/CTM/012/020 ISSUE 1 - Sig 20: Undertake corrective and preventative maintenance of control systems	5
NR/L2/CTM/205	Competence and Training for the Maintenance of Traction and Rolling Stock and On-track Machines	1	02/06/2012	4	N	N	N	Y	A new competence module or modules are required	ERTMS is referred to as a core skill once, there is no further mention throughout the document although modules exist for TPWS and AWS	The entire on board ETCS system needs including within this standard as a separate module(s) and will include the data radio.	A competence assessment module(s) added to this document for ETCS on board equipment.	5
NR/L2/CTM/209	Competence and Training in Safe System of Work Planner	1	04/06/2011	4	N	N	N	Y	A new section is required	This standard only refers to "protection" which no doubt means conventional protection in other words Possession Limit Boards and detonators. There is a need to detail the requirement of now measure competence to p[plan works on an ETCS fitted line.	Proof that a planner has the required knowledge to select the correct protection and how this is implemented on a L2 line.	L2 ETCS lines is not referred to in this standard there is therefore a requirement to add an a section planning work on a L2, overlay / underlay line.	5

NR/L1/OPS/010	Signals Passed at Danger and Signal Reversions	12	06/03/2010	4	Y	N	N	N	Definition of a "Stop Signal" to be amended also a new section to describe a SPAD when operating in an unsupervised mode.	No mention is made of a Block or Shunt Entry Marker being passed when a train is operating in unsupervised modes.	Add into the definitions of a Stop Signals a ETCS Block and Shunt Entry Marker when a train is operating in an unsupervised mode. Also loss of or withdrawal of an MA resulting in SPAD is not mentioned.	There is a need to add details to describe the withdrawal or loss of a an ETCS movement authority to the document that results in a train exceeding its MA. There should be a reference to a train operating in an unsupervised mode that exceeds the authority given by the signaller, this could be as simple as adding ERTMS Block Marker or Shunt Entry Marker to the definitions of what constitutes a stop signal.	N/A
NR/L2/OPS/110	Requirements for the Weekly Operating Notice, Periodical Operating Notice and Local Operating Instructions (incl. Sectional Appendix)	3	04/03/2017	4	N	N	N	N	None	None	High level standard does not list types of signalling in any form	Nil	N/A
NR/L2/OPS/104	Planning and Control of Steam Locomotive Operation	1	06/10/2007	4	N	N	N	N	None	None	High level standard does not list types of on board signalling in any form	Nil	N/A
NR/L2/SIG/19807	Prioritisation Of Signal Engineering Equipment Defects (Formerly NR/SP/SIG/19807)	3	04/09/2010	4	Y	N	N	Y	See below.	See below.	See below.	See below.	5
					Y	N	N		6.5 Appendix A4: Signals and Indicators	Block markers are not listed	Suggest that a new defect is added "Block markers and other mandatory signs faded or no longer fit for purpose"	Block markers missing from standard	N/A
					Y	N	N		6.9 Appendix A8: Other Trackside Equipment	Euro Balise are not listed	Suggest that a new defect is added "A Euro Balise is reported as not being read by train but does not cause a safety related or service affecting failure"	Euro Balise missing from standard	N/A

Category 5 Standards: Traffic Management

NR/SP/ERG/00005	Signalling Centre Desks	1	07/04/2007	5	N	Y	N	Y	See below.	This is the general specification for VSCS workstation desks. This needs to make reference to TMS	<p>General Comment, this standard really needs to be reviewed by an Ergonomics Expert as I expect the type of desk supplied either curved or straight will have an impact on the ergonomic values like viewing field etc.</p> <p>This standard is heavily tailored toward "conventional VDU" control and as such needs to be reviewed to see if TMS requires a separate standard, or whether this one will be revised. This review has been based upon it being revised.</p>		4
									1 - Purpose		Update to include reference to TMS as well as VDU based systems		N/A
									3 - Reference Documentation		Update to any new applicable TMS standards equivalent to 10067 etc		N/A
									4 - Abbreviations		Update to include TMS abbreviations		N/A

									7.3 Equipment Inventory		May need update to include "TMS" equipment		N/A
									7.6 Desk Surface, space and shape		Update to remove items which would be "digitalised" ie timetable simplifier, possession forms etc		N/A
									7.9 Display Screen Horizontal Viewing Angles		birdseye view figure 11 does not appear to show the current "TMS" rectangular desks		N/A
									10.15 Linking Desk Units		birdseye view figure 12/13 does not appear to show the current "TMS" rectangular desks		N/A
									10.9 Telephone Concentrator Handsets		if telecoms is integrated into the TMS does this need to be referenced here?		N/A
									12.3 Horizontal Viewing Envelope		birdseye view figure 16 does not appear to show the current "TMS" rectangular desks		N/A
									12.4 Text Sizing & Viewing Distances		This needs to be reviewed to see whether this is applicable to TMS, and if so what screens		N/A
NR/SP/ERG/24017	Control room Design specification, process, guide	2		5	N	Y	N	N	None	This is a very high level process to follow for implementation of	No change.	Nil	N/A

										control centres in general. It makes reference to VDU systems, of which TMS can be considered to be included		
NR/L3/SIG/10120	Automated Route Setting Specification	1	01/09/2008	5	N	Y	N	Y	See below.	The ARS Standard is very specific to the UK application of "ARS" which is different in the UK to the rest of the world. I suspect that significant aspects to this standard are applicable to TMS, however we may wish to limit the scope of this standard to "conventional" VDU systems and provide a new standard for a TM system.	review has been based on this standard being updated to cover TMS, however it may be better to create a new standard for TMS systems based on how many clauses would need to be changed	4
									1 Purpose		Statement regarding applicability to TMS may be required	N/A
									3 Reference Documentation		Reference to TMS documentation may be required	N/A
									4 Abbreviations		Reference to TMS abbreviations may be required	N/A
									5.1 Primary Function of the System		These statements are true for traditional VDU control however a TMS works differently to how this is	N/A

											described.	
									5.2 Functional Overview of the System		TMS will take in more interfaces than that are detailed here eg Stock & Crew and C-DAS which will impact the operation of ARS, figure 1 will also need to be updated, TMS is unlikely to have the elements detailed in figure 1 as clearly definable separate items	N/A
									6.1 Signallers Interface		Various references to 10067 and "traditional" vdu control may need to be updated to identify a TMS interface	N/A
									6.2 Technicians Interface		Section expects a separate ARS Technicians system, within TMS this would be a combined system with the rest of the Command & Control System	N/A
									6.3 System Support Interface		6.3.4 does not allow remote access to the system to make any operational changes, this may impact the support services NR are	N/A

										expecting on TMS			
									6.4 Interlocking Interface		6.4.3/6.4.4/6.4.5 make reference to storing ARS sub area latches within the Interlocking, update will be required as it is not possible to do this in a non-ARS ready interlocking ie RRI, in these cases they are stored/logged in the control system		N/A
									6.5 NR Train Service Database Interface		This is a traditional UK ARS interface, equivalent TMS systems will not have this exact interface and will support the requirements of this in a different way		N/A
									7 Functional Requirements		in general the standard is treating ARS & TCCS as two whole separate systems, in TMS this will not be the case		N/A
									7.4 Regulation Requirements		This section is limited to the "traditional" view of ARS and does not consider the advanced regulation decisions that TMS can make		N/A

									7.6 Timetable Server (TTS)		TMS system will not have an "ARS" Timetable Server as such		N/A
									7.7 Logging Requirements		TMS is capable of logging more information than that is specified here, suggest this is reviewed and expanded, or a general comment relating to logging of "pertinant" information is added		N/A
									7.8 ARS System Control Requirements		Makes reference to "editable" files within the ARS which will not be present within the same context within the TM system		N/A
									7.9 Operators Workbench Requirements		The Ops Workbench is a traditional ARS provision and is not necessarily provided by a new TMS system		N/A
									8.1 General Requirements		Within TMS this is a wider function of the system and is not limited to the ARS		N/A
									8.2 Signals		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS		N/A

										suppliers		
									8.3 Routes		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.4 Tidal Flows		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.5 Delay Rules		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.6 Berths		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.7 Locations		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.8 Alternative Platforms		these data constructs are specific to the	N/A

										UK ARS systems and are likely not applicable to the provision of TMS suppliers	
									8.9 Train Priorities	these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.10 Speed Restrictions	these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.11 Mandatory Sequences	these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.12 Miscellaneous	these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A
									8.13 Special Timing Patterns	these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers	N/A

									8.14 Perturbation Plans		these data constructs are specific to the UK ARS systems and are likely not applicable to the provision of TMS suppliers		N/A
									10 Safety		review of the SIL level in regards to TMS is required		N/A
									11.3 Availability		Review Availability figures		N/A
NR/SP/SIG/10040	IECC Applications Manual Contents (formerly RT/E/S/10040)	8	02/12/2006	5	N	N	N	N	None	This standard refers to IECC Classic Systems Hardware and is not applicable to DR	No change.	Nil	N/A
NR/SP/SIG/11130	Requirements for the provision of SPAD Alarms at Signalling Control Centres	2		5	N	Y	N	Y	<i>See below.</i>	This standard is a direct result of the Ladbroke Grove Accident Report for providing spad indications for VDU systems. This is applicable to TMS	Standard needs to be updated to reflect the provision of TMS		4
									3 - Reference Documentation		Update to reference relevant TMS documents		N/A
									4 - Definitions		Update to reference relevant TMS references		N/A
									6.1 General		Update to reference TMS documentation		N/A
RT/E/P/10024	Signaller's Operating Guide for the use of the IECC Signalling Workstation	4		5	Y	N	N	N	None	This standard details the operation of the IECC Classic. This is not applicable to TMS, however may require an update should ETCS be applied to an existing IECC Classic Area	No change.	Nil	N/A

RT/E/P/10025	IECC Timetable Processor Edit Facilities User Guide	3		5	N	N	N	N	None	This standard refers to IECC Classic Systems ARS TTS and is not applicable to DR	No change.	Nil	N/A
RT/E/PS/00012	Specification for the preparation and Implementation of Train Describer System Parameter Tables	1		5	N	Y	N	Y	See below.	This standard details the standard design for train describer stepping in the UK. This will need to be reviewed for applicability to TMS	In a similar manner to PS/00009 this document covers the standardised UK practice for the designing of TD movements within a conventional control system. This in theory could be updated to include new TMS type information, or a separate standard could be produced to cover TD movements within a TM system. this an PS/00009 may need to be retained in order to keep compatibility with external business systems such as CIS etc. This is a more fundamental decision on how TD information is going to be handled going forward, not just by TMS but by onward business systems such as		4

											CIS etc		
									6 TD Features		This section covers the basic TD information which is provided for conventional TD systems, this does not cover the advanced functionality that can be provided by TMS	Additional TMS Berth Information is not accounted for	N/A
									7 TD System Parameters Format		Further functional columns may need to be added in order to facilitate functionality available within TMS	Additional TMS Berth Information is not accounted for	N/A
									Appendixes		TMS type information would need to be added to the existing appendixes, or new appendixes added	Additional TMS Berth Information is not accounted for	N/A
RT/E/S/10041	Requirement Specification for an IECC System Monitor Terminal	1		5	N	Y	N	N	None	This standard details the technicians interface to the IECC Classic System and is not applicable to DR	No change.	Nil	N/A

RT/E/S/10067	Requirement Specification for a VDU Based System (NR/SP/SIG/10067)	2	02/08/2003	5	N	Y	N	Y	See below.	This standard refers to the presentation of VDU maps to the signalling for Traditional VDU systems. This needs to be reviewed to see whether it can be applied to TMS systems, or whether this standard needs to be retrained for traditional VDU systems and a new standard created for TMS	This standard is very specific to the requirements of a conventional VDU control system and the associated Track Mimic it has, this standard does not cover the equivalent TMS system which has far more functionality and GUIs. Consideration should be given as to whether this standard is fit for purpose for TMS and should be updated to reflect TMS, or if this is kept for conventional VDU systems and a new standard is created covering TMS.	No consideration for TMS interfaces in standard	4
									1 Purpose		purpose does not consider the application of TMS		N/A
									2 Scope		Makes reference toGK/RT0025 which was withdrawn in 2011 and GK/RT005 which is also withdrawn		N/A
									3 Reference Documentation		Makes reference toGK/RT0025 which was withdrawn in 2011 and		N/A

										GK/RT005 which is also withdrawn		
									4 Abbreviations	does not consider TMS		N/A
									5 Definitions	TMS may require additional definitions to be defined		N/A
									6 Mandatory Functional Requirements	The functional requirements are aimed at a traditional VDU control system which mimics a traditional NX Panel, as such these functional requirements do not consider advances that had been made in computing technology since the late 1990s, such as drop down menus etc. This standard does not consider the advanced functions that TMS will undertake such as platform dockers, train graphs etc. This section could be be more generalised and outcome driven rather than event driven to make it compatible with TMS	Functional requirements do not consider TMS functions	N/A

									7 Desirable Functional Requirements		Not sure how you can have "desirable" functions within a standard, they are either required or not. Again this section is very much based around the provision of a traditional VDU based system and as such this section could be be more generalised and outcome driven rather than event driven to make it compatible with TMS	desirable requirements do not consider TMS functions	N/A
									8 Interfaces		section 8 and Figure 1 does not consider the additional interfaces required for TMS		N/A
									Appendix A Symbol Set		The symbol set within the standard is based on an adaptation of the tradition NX panel. These types of display have been significantly overtaken by the advances in computer and VDU technology in the last 20 years. If this standard is to be applied to TMS then this symbol set	does not consider TMS/ETCS track mimic or any other TMS display or any other TMS display	N/A

											<p>needs to be referenced to conventional VDU control, and either a typical new set of TMS symbols, or make reference that the suppliers provide their own documentation on symbols.</p> <p>This section also does not consider representation of any other TMS screen</p> <p>This section also does not consider any ETCS symbols which may be required on a conventional VDU</p>		
									Appendix B Summary of Colours Required		<p>This section allows for a total of 14 colours for representation of all screen mimics, advances in technologies now allow for almost unlimited colour options, this needs to be revised for the more modern TMS systems</p>	revised colour pallet is required	N/A
RT/E/S/17504	IECC Operating Specification for Signalling Control and	3	06/12/2003	5	Y	N	N	N	None	This standard details the Controls & Indications for	No change.	Nil	N/A

	Indications Purposes									IECC Classic. This is not applicable to TMS. However this may need to be reviewed for interfacing with ETCS		
NR/PS/SIG/00009	Message handling and data transmission reqs between processor based systems	2	5	N	Y	N	Y	<i>See below.</i>	<p>This standard details the common protocol for the sharing of Train Describer Data and "S" Class signalling data between adjacent systems, this is in theory applicable to TMS and needs to be reviewed in more details</p>	<p>This standard covers the following types of interfaces for the existing TD/VDU systems in the UK:</p> <p>C Class - Train Stepping Messages S Class - Signalling Data State Messages D Class - ARS Messages</p> <p>In theory this standard could be expanded to include new messages classes to cover TMS type messages for plan information etc once it is agreed on the type of messages that need to be provided between systems.</p> <p>This review has been based on the assumption this standard is expanded, however it may be better for</p>	TMS type messages are missing, compliance to EN 50128	4

											TMS interfaces to have their own standard this needs to be discussed with the supply chain as to the best approach.		
									3 Reference Documentation		TMS references are missing		N/A
									4 Glossary of Terms		TMS references are missing		N/A
									5 Interface		Only covers serial connections	expansion to include ethernet connectivity is required	N/A
									6 Protocol		Needs to be reviewed for compliance with current protocol standards for applicability to Cyber Security and EN50128 etc		N/A
									Appendix B		Appendix B does not cover all the "TMS" type messages that would likely be required	TMS type messages need to be defined	N/A
Category 6 Standards: Telecoms													
NR/GN/TEL/30065	Guidance note for the management of safety related reports for telecoms failures	3	02/06/2008	6	N	N	N	N	None	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A

NR/L1/TEL/30029	Telecoms installation	4	06/03/2010	6	Y	?	?	Y	General	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L1/TEL/30092	Telecoms testing and Commissioning	4	04/03/2017	6	Y	?	?	Y	General	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L1/TEL/30093	Telecoms maintenance	3	06/03/2010	6	Y	?	?	Y	General	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L1/TEL/30099	Telecoms asset management	4	06/03/2010	6	Y	?	?	N	None	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L2/CTM/013	Training and competence in telecom engineering	2	05/02/2011	6	Y	?	?	Y	General	Competence in Transmission Systems will need to be updated to include IP systems.			6
NR/L2/SIG/11010	Management of signalling and Communications system	3	03/09/2011	6	N	N	N	N	None	The application of this standard will not change with the introduction of the digital railways. However it takes no notice of the railway wide FTN/FTNx transmission services owned by NRT	No change.	Nil	N/A
NR/L2/TEL/30066	Signalling and Telecommunications Telecoms Clearance for Fixed transmitters	7	06/03/2010	6	Y	?	?	N	None	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L3/TEL/30088	Specification for Mast Inspections and Maintenance of Antenna Systems and Feeders	4	04/03/2017	6	Y	?	?	N	None	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L2/TEL/30098	Testing & commissioning of telecoms equipment and systems	2	26/08/2008	6	Y	?	?	Y	General	Para 6.5 Testing Requirements may need to be expanded to			6

										include IP systems and equipments.			
NR/L2/TEL/30124	Specification for the maintenance of GSM-R, Radio BTS, BSC, TCU, repater and IVRS equipment	2	02/03/2013	6	Y	?	?	N	None	This standard will only need to be updated as required to capture the introduction of new or up-versioned equipment types	No change.	Nil	N/A
NR/L2/TEL/30127	GSM-R air interface functionality, availability management and compliance validation	4	02/09/2018	6	Y	?	?	N	None	This standard may need to be updated to capture the introduction of 4G and 5G infrastructure that may be introduced onto the railway in support of the Digital Railways	No change.	Nil	N/A
NR/L2/TEL/30146	Product specification for UMTS, GSM and GSM-R modems	2	02/12/2010	6	Y	?	?	N	None	This standard will need to be updated as new technologies and equipments are bought into use by Network Rail in support of the Digital Railways.	No change.	Nil	N/A
NR/L2/TEL/31001	Telecommunications maintenance testing & failure investigation	4	02/06/2018	6	Y	?	?	Y	General	This standard will need to be updated to capture the failure investigation and maintenance testing of all new IP equipments deployed on the railway in support of the Digital Railways			6
NR/L2/TEL/31002	Maintenance of telecom equipment	5	01/09/2018	6	Y	?	?	N	None	The application of this standard should not change with the introduction of Digital Railways	No change.	Nil	N/A
NR/L3/MTC/MG0021	Corrective maintenance (faulting) of operational telecom assets	2	26/08/2008	6	Y	?	?	N	None	The processes set out in this standard for corrective maintenance will remain in place on the Digital Railway	No change.	Nil	N/A
NR/L3/TEL/0023	Management of SINCS Records for	3	06/03/2010	6	Y	?	?	N	None	The application of this standard should	No change.	Nil	N/A

	Telecoms Assets									not change with the introduction of Digital Railways.			
NR/L3/TEL/0092	Disconnection and at risk processes for telecoms bearer circuits and systems including GSM-R equipment	5	02/09/2017	6	Y	?	?	N	None	The application of this standard should not change with the introduction of Digital Railways.	No change.	Nil	N/A
NR/L3/TEL/31103	Energisation of Commercial and Operational Radio Antenna Systems	3	06/03/2010	6	Y	?	?	N	None	This document will need to be updated to meet the requirements for the Energising Test Methodology for future mobile radio systems deployed to support the Digital Railways.	No change.	Nil	N/A
NR/L3/TEL/40047	Management of Safety Related Reports for Telecoms Failure Appendix	2	03/06/2017	6	Y	?	?	Y	General	This document may need updating to include failure codes relating to IP systems and equipment deployed on the railway in support of Digital Railways.	No change.	Nil	6
NR/PS/TEL/00025	Synchronous Digital Hierarchy Multiplexing Equipment	2	01/04/2006	6	Y	?	?	Y	General	This standard needs to be updated to identify the interface requirements for working with IP equipments used as part of the Digital Railways.	No change.	Nil	6
NR/PS/TEL/00026	Primary PCM Multiplex equipment	2	01/04/2006	6	N	N	N	N	None	This standard will not be used as part of the Digital Railway as it covers PCM digital multiplex technology.	No change.	Nil	N/A
NR/SP/TEL/30024	Fault priority and response times for telecommunications equipment	4	03/03/2007	6	Y	?	?	N	None	The application of this standard will not change with the introduction of the digital railways.	No change.	Nil	N/A
NR/SP/TEL/30032	Positioning and labelling of Lineside	3	01/04/2006	6	N	N	N	N	None	The application of this standard should	No change.	Nil	N/A

	Telephones									not change with the introduction of Digital Railways.			
Category 7 Standards: Other - Processes, config management, method of deployment, EMC, etc.													
NR/GN/SIG/11721	The Verification and Validation of Interlockings	2	June 2002	7	Y	N	N	Y	<i>See below.</i>	This CoP will need updating to reflect a Level 2 railway without signals, or guidance given as how to interpret for a L2 railway. Ideally needs to be reviewed in the context of the Testing standards.	<i>See below.</i>	<i>See below.</i>	1
NR/SP/ELP/27204	Specification for the screening of Signals	2	April 2006	7	Y	N	N	N	General	Would only apply if signage was mounted on gantries or at running 'signal' height.	No change.	Nil	N/A
NR/L2/SIG/30035	Signalling Scheme Technical Approval Process	3	01/09/2012	7	Y	Y	Y	Y	<i>See below.</i>	Whilst the process could remain unchanged, needs significant work to tailor the information that needs to be presented for an ETCS scheme approval (for example transitions). It is also likely that for ETCS scheme additional attendees may be required to cover interoperability compliance/reference design compliance. Note that this standard also covers stageworks so suspect that the migration will also need to be covered here as well.	<i>See below.</i>	<i>See below.</i>	1

NR/L2/SIG/30003	Engineering Assurance Arrangements for Signalling Engineering Schemes and Services	1	03/09/2011	7	Y	Y	Y	Y	See below.	Could stand as is provided there is no change on the key actors (primarily the RAM being responsible for providing requirements and AiP) in relation to an ETCS scheme. May need to check referenced documentation for changes.	See below.	See below.	N/A
NR/L2/RSE/30041	Electromagnetic compatibility (EMC) assurance process	2	01/09/2012	7	Y	Y	Y	N	General	Note reference documents may be out of date e.g. refers to EMC Regulations 2006, but current is EMC Regulations 2016 and are under Statutory Instrument 2016 No 1091. It does NOT need a specific update to cover ETCS etc, however it is recommended that it is reviewed and updated to reflect the EMC Regulations (2016). STE should already have undertaken a standards impact on this.	No change.	Nil	N/A
NR/L2/AIF/02106	The provision of track category and traffic data	4	26/08/2008	7	N	N	N	N	General	Not applicable to an ETCS project, per se, but may need update if ATO is employed as the increased likelihood of track corrugations in station areas.	No change.	Nil	N/A

NR/L1/RSE/30040	EMC Strategy for Network Rail	1	01/12/2008	7	Y	Y	Y	N	General	Note reference documents may be out of date e.g. refers to EMC Regulations 2006, but current is EMC Regulations 2016 and are under Statutory Instrument 2016 No 1091. It does NOT need a specific update to cover ETCS etc, however it is recommended that it is reviewed and updated to reflect the EMC Regulations (2016). STE should already have undertaken a standards impact on this.	No change.	Nil	N/A
NR/L1/INF/002232	Information Security Policy	2	07/06/2016	7	Y	N	N	N	General	Nil	No change.	Nil	N/A
NR/L2/ERG/24020	Engineering Assurance Arrangements for Ergonomics within design and development projects	3	03/03/2012	7	Y	N	N	N	General	Scope limited to infrastructure systems.	No change.	Nil	N/A
NR/L2/INF/02242	Information Security Manual	4	03/06/2017	7	Y	N	N	N	General	Nil	No change.	Nil	N/A
NR/L2/INF/02242/01	Information Security Manual Module 1	3	03/12/2016	7	N	N	N	N	General	Module really about internal day to day IT/phone usage	No change.	Nil	N/A
NR/L2/INF/02242/02	Information Security Manual Module 2	2	03/12/2016	7	Y	Y	Y	N	General	Applicable to TMS/CDAS for access to NR Business systems.	No change.	Nil	N/A
NR/L2/INF/02242/03	Information Security Manual Module 3	1	03/12/2016	7	Y	Y	Y	N	General	Nil	No change.	Nil	N/A
NR/L2/INF/02242/04	Information Security Manual Module 4	1	03/06/017	7	Y	Y	Y	N	General	Nil	No change.	Nil	N/A
NR/L2/INF/02242/05	Information Security Manual Module 5	1	03/06/2017	7	Y	Y	Y	N	General	Applies to any system utilising cloud computing.	No change.	Nil	N/A
NR/L2/RSE/070	Engineering Verification	2	03/03/2012	7	Y	Y	Y	N	General	This is applicable to verification after the system has entered service. The	No change.	Nil	N/A

										process is technology/asset type independent.			
NR/L2/RSE/100	Network Rail Assurance Panel processes	4	03/03/2018	7	Y	Y	Y	N	General	High level document that references the associated processes	No change.	Nil	N/A
NR/L2/RSE/100/01	Network Rail Assurance Panel	2	05/03/2016	7	Y	Y	Y	N	General	Generic process technology independent.	No change.	Nil	N/A
NR/L2/RSE/100/02	Application of the CSM for Risk Evaluation and Assessment.	3	05/03/2016	7	Y	N	N	N	General	Generic process technology independent.	No change.	Nil	N/A
NR/L2/RSE/100/03	The application of the interoperability regulations for infrastructure projects.	2	05/03/2016	7	Y	N	N	N	General	Generic process technology independent.	No change.	Nil	N/A
NR/L2/RSE/100/04	Introduction of new or modified vehicles	2	05/03/2016	7	Y	N	N	N	General	Generic process technology independent.	No change.	Nil	N/A
NR/L2/RSE/100/05	Product Acceptance and change to Network Rail Operational Infrastructure	3	03/03/2018	7	Y	N	N	N	General	Generic process technology independent.	No change.	Nil	N/A
NR/L2/RSE/100/07	System Review Panels	2	05/03/2016	7	Y	Y	Y	N	General	Generic process technology independent.	No change.	Nil	N/A
Category 8 Standards: Interface with Conventional Signalling													
NR/L2/MTC/II0218	Intelligent Infrastructure Remote Condition Monitoring	1	04/12/2010	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L3/MTC/II0219	Intelligent Infrastructure Remote Condition Monitoring Manual	1	04/12/2010	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/GN/SIG/50014	Methodology for the Demonstration of Compatibility with Lineside Equipment	2		8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay	No change.	Nil	N/A

										/ underlay migration states and fringes.			
NR/L2/SIG/10173	Train Protection and Warning System (TPWS) Track Sub System Installation Requirements (Formerly RT/E/S/10173)	4	26/08/2008	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L2/SIG/17002	SSI Applications Manual Contents	25	05/09/2015	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L2/SIG/19609	Requirements for Colour light Junction Signalling	1	06/10/2007	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L2/SIG/30010	Tracklink 2/HSD2000 Platform Identification Beacon System (PIBS) For Selective Door Operation (SDO)	1	05/12/2009	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L2/SIG/50010	Methodology For The Demonstration Of Electrical Compatibility With Train Detection System In Use On Non-electrified Lines	2	26/08/2008	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/L3/SIG/11761	Handbook for EBI Track 200 Style TI.21 Audio Frequency Track Circuits (formerly RT/E/PS/11761)	5	03/03/2018	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/10137	Train Protection and Warning System (TPWS) Selection of New Signals And Other Locations For Provision of TPWS	3	03/04/2004	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states	No change.	Nil	N/A

	(formerly RT/E/S/10137)									and fringes.			
NR/SP/SIG/50002	Methodology for the demonstration of compliance with single rail reed track circuits on the AC Railway. (formerly RT/E/C/50002)	2	01/02/2007	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/50003	Methodology for the demonstration of electrical compatibility with double rail reed track circuits on the DC Railway. (formerly RT/E/G/50003)	2	01/02/2007	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/50004	Methodology for the demonstration of Compatibility with DC (AC-immune) Track Circuits (formerly RT/E/C/50004)	2	01/04/2006	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/50006	Methodology for the Demonstration of Compatibility with 50 Hz Double Rail Track Circuits	1	01/04/2006	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/50011	Methodology for the Demonstration of Compatibility with Axle Counters	1	01/04/2006	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/SIG/50012	Methodology for the demonstration of compatibility with TPWS Track Sub-system (formerly RT/E/C/50012)	2	01/04/2006	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A

NR/SP/SIG/50015	Methodology for the demonstration of compatibility with Reed FDM Systems on the AC and DC Railways (formerly RT/E/C/50015)	2	01/02/2007	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/C/50005	Methodology for the demonstration of compatibility with 50 Hertz single Rail track circuits.	1	01/02/2003	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/C/50007	Methodology for the demonstration of compatibility with HVI Track Circuits	1	01/02/2003	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/C/50008	Methodology for the demonstration of compatibility with TI 21 Track Circuits	1	01/02/2003	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/C/50009	Methodology for the demonstration of compatibility with FS2600 track circuits on the DC Railway.	1	01/02/2003	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/C/50013	Methodology for the demonstration of compatibility with interlockings	1	01/02/2003	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/S/10131	Requirement Specification for "Signals On" Controls for SSI Schemes	2		8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A

RT/E/S/10133	Train Protection and Warning System (TPWS) Signalling Interface Design Requirements (NR/SP/SIG/10133)	3	03/04/2004	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/S/10134	Train Protection Warning Systems - Track sub-systems equipment (NR/SP/SIG/10134)	3	03/04/2004	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/S/10137	TPWS - Selection of Signals and Other Locations for Provision of Track Sub-system	3		8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
RT/E/S/10138	Train Protection and Warning System (TPWS) Transmitter Loop Requirements And Positioning (NR/SP/SIG/10138)	3	03/04/2004	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
TI 0022	Appendix to NR/SP/SIG/10137 TPWS	3	06/04/2018	8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A
NR/SP/TEL/50016	Methodology for the demonstration of Compatibility with Telecoms Systems	3		8	N	N	N	N	None	Not affected by Digital Railway end state, but is affected by overlay / underlay migration states and fringes.	No change.	Nil	N/A

Standards filtered out by Preliminary Analysis

ERGONOMICS

NR/L2/ERG/003	Management of fatigue; control of working hours for staff undertaking safety critical work	5	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
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INFORMATION MANAGEMENT

NR/L2/INF/02202	Records Management of Health and Safety files	6	05/03/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INF/02203	Controlled Publications - Issue and Receipt	2	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INF/02220	Document and Records Management	1	01/10/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INF/02223	Information security classification	3	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INF/02230	Corporate Archive Policy	2	05/12/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INF/02234	Information Security - Acceptable use of information and information systems	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02204	Controlled Publications - Process and Accountabilities	3	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02221	Document Creation and Approval	1	01/10/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02222	Metadata for Documents and Records	1	01/10/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02223	Information Security Classification	3	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02226	Corporate Records Retention Schedule	3	02/12/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02231	Disposal of Records	1	03/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INF/02236	Scanning of Documentation	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
INFRASTRUCTURE MAINTENANCE													
NR/L2/MTC/006	Maintenance and Contents of the National Hazard Directory	6	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/MTC/MG0042	The reporting and Review of Maintenance compliance	4	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MCT/EN0225	Environment Management System for Infrastructure maintenance	1	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MCT/EP0185	OCR incident support for LNW route E&P Engineers	1	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0098	Leaks and Spills incident response	4	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/MTC/EN0099	Protected Sites and Species Management	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0100	Waste management	3	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0102	Graffiti, Litter and Fly-tipping management	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0103	Noise and Vibration management	2	39686	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0105	Pest management	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EN0101	Managing Discharges to sewers...	3	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0036	Preventive Maintenance of Operational Plant, 25kV	2	06/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0037	Review and Commit Panned work	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0038	Do Maintenance Task	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0039	Urgent corrective Maintenance of E&P Assets	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
Nr/L3/MTC/EP0140	Procedure for creating a technical query	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0141	3 Phase high voltage outage management	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0143	Inspection and Maintenance of OLE	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0152	Working on or adjacent to conductor rail	5	01/03/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0184	The removal and reporting of OLE defects by the OCR team	1	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0187	The Collection and Recording of E&P Condition Data	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0189	Overhead Condition Renewals (OCR) - Allocation Design	1	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0196	Management and Control of Projects by the OCR Team	1	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/EP0232	OCR Team Materials Process	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0012	Infrastructure Maintenance Briefing Process	5	03/06/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/MTC/MG0020	Management of Amey 3rd Line HABD Support Contract	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0043	Audit Protocol Preparation Within Maintenance Organisation	3	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0063	Procedure for the Requisitioning of Railway Spares	2	02/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0082	Managing Claims Within Maintenance Organisation	2	02/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0164	Exploiting New Technology	2	02/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0173	Monitoring of Spoken Safety Communications	2	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0176	Ellipse Work Management Handbook	5	03/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0180	Production of Compliance Indicator Reports	2	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0183	Maintenance Timesheet process	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0194	Management of 3rd Party Complaints	3	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0197	Power Supply Outage Management	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0208	Project Interface Management	1	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0210	Management of Maintenance Work Within a Worksite to Prevent a possession overrun	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0213	Index of Standard Maintenance Forms	10	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0214	Critical Asset – Repeat Failure Escalation Process	1	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0221	Infrastructure Maintenance Management Self Assurance Procedure	4	04/06/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/MTC/MG0224	Infrastructure Maintenance Process for the Management of Fatigue and Control of Working Hours for Employees Undertaking Safety Critical Work	1	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/MG0230	Infrastructure Maintenance Restructure – Competency Matrix	2	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0067	Highways Interface Planning in Infrastructure Maintenance	3	07/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0095	Planning of Overhead Line Condition Renewals	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0151	Works Planning Using PossMan	3	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0159	Short-term Works Planning in Infrastructure Maintenance	3	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0160	Medium-term works planning in Infrastructure Maintenance	3	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0211	Planning of Engineering Access & NDS-Supplied Resource for Infrastructure maintenance delivery units	1	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/PL0215	Communicating with the Public	1	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/RCS0216	Risk Control Manual	12	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0089	New Starters Mentoring (Passport Scheme)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0090	Health & Safety Notice Boards	3	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0091	Worksafe Review Procedure	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0115	Confined spaces – working and entry procedure	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0116	Work Activity Risk Management	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/MTC/SE0117	Planned General Safety Inspections and Site Surveillance	3	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0120	Supply and Maintenance of Personal Protective Equipment	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0195	Hand Arm Vibration Management	3	01/12/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0212	Management of Contractors	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE0220	Working Safely at Height Manual	1	04/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE206	Introduction And Management of Lookout Operated Warning System (LOWS) Equipment	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SE207	Use of Lookout Operated Warning System (LOWS) Equipment	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/SG0019	Failure Escalation of Servo Type Hot Axle Bearing Detector (HABD) equipment	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/MTC/TE0066	Inspection and Surveillance of Telecoms Activities	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
INVESTMENT PROJECTS													
NR/L1/INI/EDT/CP0090	Policy for Engineering Design Technology	1	04/06/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/INI/PM/GRIP/100	Governance for Railway Investment Projects (GRIP) - Policy	5	02/19/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INI/02009	Engineering Management for Projects	5	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INI/CP0043	Management of Third Party Works on Network Rail Infrastructure	3	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INI/CP0061	Access Through Land Belonging to an Outside Party	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INI/CP0070	Principal Contractor Licensing Scheme	5	02/09/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/INI/EDT/CP0091	Specification for Computer Aided	1	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Design												
NR/L2/INI/PG114	Implementation of the Network Rail Project Control Cycle	3	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CI0029	Project Procedure for Land Negotiations (Temporary and Permanent)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0028	Contract Requirements - Quality	3	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0036	The Provision of Welfare Facilities	4	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0046	The Reporting and Investigation of Accidents and Incidents within IP and Asset Management Works Delivery	3	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0063	Piling Adjacent to the Running Line	1	06/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0064	Delivering Works within Possessions	5	02/12/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0067	Formal Briefing Process Arrangements Within Infrastructure Projects	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/CP0074	Project Advice Note (PAN) Process	1	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INI/PG115	Planning & Programme Controls Standard	5	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
SIGNAL ENGINEERING													
NR/GN/SIG/00013	Guidance for consideration of TPWS during Railway Engineering Activities	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/10670	ROSE Project - Implementation Guide	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/17901	SSI Configuration Guide	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/17902	SSI Program and Data Problems	5		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/17903	SSI Hardware Problems	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/GN/SIG/19002	WRSL - Style 63 Point Machine (SIGTAN 002)	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19012	SIGTAN012 - Cables and Wiring Used for Signalling Systems	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19020	Signalling Relays (SIGTAN020)	7		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19047	SIGTAN047 - Points (General)	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19053	IECC Technicians Manual	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19054	SSI Technicians Manual (Parts A, B and C)	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19101	Good Practice Guide - Acic Track Circuit Leaf fall detection unit	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19800	Bedford-Bletchley: Control and use of VHLC Local Panels	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/19801	Sittingbourne - Sheerness: Control and use of VHLC Local Panels	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/GN/SIG/CAT006	Index of NR Documents Relating at Signalling & Communications Equipment	11	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/10013	Investigation of Signalling Equipment (Formerly RT/E/P/10013)	3	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/10016	Requirements for an Asset Maintenance Process (Formerly RT/E/P/10016)	4	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/10027	Surveillance of Signal Engineering Activities	4	05/12/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/10160	Signal Engineering: Implementation of IRSE Licensing Scheme - The Route to Competence	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/10660	Implementation of Signalling Maintenance Specifications (formerly NR/SP/SIG/10660)	8	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	(SMS)												
NR/L2/SIG/10662	Process for the implementation of new or revised maintenance regimes using Reliability Centred Maintenance	11	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11107	Silver Migration	4	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11120	Process for Management of Signal Engineering Technical Instructions and Notice Boards	10	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11129	Life Management of Signalling Relays and Electro-mechanical searchlight and banner signals (formerly RT/E/S/11129)	6	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11213	Signalling Equivalent Cable Sizes	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11400	HPSS Handbook	6	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11655	Management of Cable & Wire Degradation	3	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11704	Signalling Requirements for the Application Design and Management of Points	3	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/11774	Clamp Lock Handbook	3	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/13251	Management of the Signalling Infrastructure Condition Assessment SICA Process (NR/SP/SIG/13251)	3	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/19608	Level Crossing Infrastructure Inspection & Maintenance (Formerly NR/SP/SIG/19608)	7	27/05/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/19803	Signalling Scope Of Work For Switch And Crossing Renewal	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Projects (Formerly NR/SP/SIG/19803)												
NR/L2/SIG/19809	Business Selection of Point Operating Equipment	2	04/03/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30015	Specification for Station. footpath. bridleway and user worked Level Crossings	1	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30019	Process for Closing or Downgrading Public Level Crossings	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30027	Product Specification - Plug Couplers for Connection of cables to lineside signalling equipment	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30036	Intelligent Infrastructure Management - Data Logging Specification	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30050	Signalling Power Circuit Principles	1	01/12/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30060	Product Specification for AzLM Axle Counter Cable	3	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30070	Signalling Of Modular Switch And Crossing Renewals	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/30099	Mechanical Locking Handbook	1	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIG/50019	Control of the Issue of S&T Keys from Unipart Rail	4	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/27408	Product Specification for Signalling Power Distribution Cables	3	03/06/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/27409	Product Specification for Functional Supply Points (FSP)	2	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/27410	Specification for Class II Based Signalling Power Distribution Systems	2	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/27419	Product Specification for Distribution Interface Transformer Assemblies (DITA) for Signalling Power	1	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Distribution												
NR/L2/SIGELP/27421	Product Specification - Flexible Conduits for Class II Based Signalling Power Distribution Systems	1	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/27422	Product Specification - Cable Glands for use in Class II Based Signalling Power Distribution Systems	1	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/30007	Product Specification for Power Transformers for Signalling Systems	3	06/12/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/SIGELP/50000	Working on or near 650V Signalling Power Supplies	3	04/03/217	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/10661	Signalling Maintenance Task Intervals	16	31/05/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/19102	Advanced Ssi Go/No-Co Tester Specification	1	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/19272	Signalling Equipment Workshop Engineering Notice (SIGWEN021) Signalling Relays	5	04/06/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/19808	Hy-Drive Supplementary Point Drive System	3	18/09/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/30051	Signalling functional power loads data management	1	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/30071	Specification For Point Interface Location	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/30075	Production of Non-Conceptual Signalling Design	2	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/31655	Inspection of Cable & Wire Degradation	1	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0053	Preventative Maintenance of Signalling Assets	3	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/SIG/SG0054	Corrective Maintenance of Signalling Assets	5	04/05/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0057	Management Of Signal Relay Reservicing (Formerly NR/PRC/MTC/SG0057)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0058	Management of Defective Cables	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0065	Management Of Disconnections That Affect Signalling Equipment	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0079	Signalling Responsibilities for S&C Maintenance (Formerly NR/PRC/MTC/SG0079)	3	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0108	Signalling Maintenance Vehicle Stock Check and Replenishment	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0138	Management of Signalling Wrong Side Failures (Formerly NR/PRC/MTC/SG0138)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0139	Management of Right On Arrival and Repeat Signal Failures (Formerly NR/PRC/MTC/SG0139)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0154	Management of Signalling Defects (Formerly NR/PRC/MTC/SG0154)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0155	Management Of Isolation. Re-Sets. And Restoration On Axle Counter Equipment (Formerly NR/PRC/MTC/SG0155)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIG/SG0162	Management of Signal Maintenance Diagrams (Formerly NR/PRC/MTC/SG0162)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

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NR/L3/SIG/SG0166	Management of operational signalling equipment involved in wrong side failures and incidents (Formerly NR/PRC/MTC/SG0166)	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIGELP/27420	Target Earth Calculation Methodology for Signalling Power Systems	1	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/SIGELP/50001	Working on or near 650V Signalling Power Supplies (Work Instructions Index)	4	02/12/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/SIG/00018	ERSE Mk.4 Product Specification	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/SIG/19802	Train Actuated Disconnecter (TAD)	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIG/10661	Signalling Maintenance Task Intervals	16	31/05/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/SIG/19253	Westinghouse Signals Style 63 Point Machine (Sigwen 002)	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/SIG/19812	Cross Track Cable Management	1	28/02/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SPEC/1003	Specification for Overlay Miniature Stop Light	1	06/06/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/SIG/00111	Points General - Supplementary Drives - Mechanical (formerly RT/E/WI/00111)	2	01/04/2006	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/D/S/006	Retro-reflective Temporary Speed Equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/11772	Supplementary Point Drives and Detection (NR/GN/SIG/11772)	1	07/04/2001	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/11821	Siting Requirements for Lineside Apparatus Housings	1	05/08/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

RT/E/C/19008	SIGTAN008 Sangamo/Schlumberger Time Switches Used at Level Crossings	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19010	SIGTAN010 - Circuit Controllers Used with BR843 Level Crossing Lifting Barriers	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19014	SIGTAN014 Mechanical Handbook	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19015	SIGTAN015 Relay Plugboard Problems	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19016	SIGTAN016 Westinghouse M3 Point Machine	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19019	SIGTAN019 Westinghouse Signal Machines	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19023	SIGTAN023 Signal Post Replacement switches	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19024	SIGTAN024 Signalling Control Panels	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19025	SIGTAN025 Electric Lever Locks and Circuit Controllers	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19026	SIGTAN026 Track Circuit Equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19030	SIGTAN030 Earth testing of bus-bars	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19032	SIGTAN032 Alignment of Colour Light Signals	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19036	SIGTAN036 Test and Measurement meters	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19039	SIGTAN039 Signals (General)	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19040	SIGTAN040 Train Protection Systems	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19041	SIGTAN041 Battery Cells	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19044	SIGTAN044 Level Crossings	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19045	SIGTAN045 Power Supplies	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19046	SIGTAN046 Treadles	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19048	SIGTAN048 TPWS Trackside Equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

RT/E/C/19050	SIGTAN050 Western Region Type Barrier Machine Hydraulic Ram - Ram Pin Failure	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19051	SIGTAN051 GEC FDM Reed Equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19052	TPWS in RTEB Areas - Faulting Guidance	1	03/04/2004	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19052	SIGTAN052 - TPWS in RETB - Faulting Guidance	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19254	SIGWEN003 GEC-CS HW Point Machine	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19257	SIGWEN006 Smiths Industries Clamp Lock Power Pack	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19258	SIGWEN007 BR843 Level Crossing Lifting Barriers	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19259	SIGWEN008 Westinghouse Signal Machines	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19262	SIGWEN011 BR817 Hydraulic Clamp Lock Power Packs	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19265	SIGWEN014 Labelling of signalling equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/19269	SIGWEN018 GEC FDM Reed Equipment	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/C/50018	Methodology for the Determination of Interaction with Neighbouring Railways	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00002	Adjustable Tie Bar for Rail Clamp Point Lock	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00005	Railway Signalling Cable	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00009	Message Handling and Data Transmission Requirements Between Processor Based Systems	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00011	TPWS - Failure Indication Unit	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00032	TPWS Self Powered Over Speed Sensor (SPOSS) Battery	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Procurement Specification												
RT/E/PS/00801	Requirements Specification for TDM Systems	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11755	DC Track Circuits	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11756	HVI Track Circuits	2	01/08/2001	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11757	A.C. Phase Sensitive Track Circuits	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11760	Westinghouse Signals FS2600 Track Circuits	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11762	Track Circuit Assister Interference Detectors	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11763	Reed Type RT Track Circuits	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11764	Track Circuit Interrupters	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/11765	Impedance Bonds	1	02/12/2000	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10015	Rail Clamp Point Lock Performance Specification for the Microswitch with Independent Contacts	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10029	Op. & Maintenance. of Non Intrusive Earth Leakage test Adapter for Reed FDM Systems (NR/SP/SIG/10029)	1	01/08/1998	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10031	Miniature Stop Light Unit	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10059	Non-Intrusive Earth Leakage Test Adaptor for Reed FDM Systems	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10060	Vital Signalling Timer	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10062	Long Range Colour Light Signals (NR/SP/SIG/10062)	1	03/08/1999	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10065	Requirement Specification for a Barrier Operation relay for LC Barriers	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10073	Barrier Boom Light Units for Level Crossings	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

RT/E/S/10081	Preventative and Corrective Maintenance of Lever Frames (NR/SP/SIG/10081)	1	01/12/1997	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10083	Preventative & Corrective Maintenance of Mechanical Signalling Wire Runs & Rodding. (NR/SP/SIG/10083)	1	01/12/1997	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10110	Requirement Specification for Performance of Position Light Signals (NR/SP/SIG/10110)	1	01/08/1999	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10127	Equipment Specification for the Filament Lamp (Type SL35) for use in the Long Range Colour Light Signal	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/10178	TPWS in areas where control of Trains is by RTEB (NR/SP/SIG/10178)	1	03/04/2004	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/11752	Train Detection (NR/SP/SIG/11752)	2	01/08/2001	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/17004	Requirement Specification for a SSI Technicians Terminal	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/17005	SSI - Specification for Long line Links Telecommunications Requirements	1	01/08/1999	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/17503	IECC Internal Subsystems Communications requirements	1	01/06/1999	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/21136	Track Circuit Operating Device	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/SRS/01	Requirement for Powered Point Operating Equipment	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
SYSTEMS ENGINEERING													
NR/L1/AMG/1010	Policy on Working Safely in the vicinity of Buried Services	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/AMG/1020	Buried Services Data Provision	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/AMG/1030	Working Safely in the vicinity of Burried Services	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/AMG/1040	Burried Services data feedback	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/EBM/088	Arrangements for Maintenance of New and Changed assessts	4	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/EBM/STP001	Managing standards	7	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/HAM/02201	Management of Risk arising from Deffered Renewals	5	04/06/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/AMG/02107	Provision of Track category and Traffic data - work instruction	3	01/12/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/EBM/071	Undertaking Engineering verification	1	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
TELECOMS ENGINEERING													
NR/L2/TEL/00013	Cable Troughing	4	04/06/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30003	Immunity Test requirements for Lineside Communications	4	04/03/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30022	Engineering Assurance Arrangements for Communications Engineering Schemes and Services	7		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30025	Standby Power Supply requirements for Operational telecommunications equipment	5	03/03/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30028	Installation of operational telecommunications equipment	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30033	Inspection and surveillance of telecommunications engineering activities	7		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30069	Specification for the Inspection and Minor maintenance of Lineside S&T Cable Routes	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/TEL/30070	Specification for the Maintenance of telecoms Copper cables	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30078	Specification for the Maintenance of Network Control Processor Systems	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30081	Maintenance of telecommunication power plant, batteries, invertors and UPS	4	03/03/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30083	Maintenance of NR telephone instruments in operational buildings	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30094	Installation of telecommunications equipment and systems	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30156	Functional Requirement for Saftey related Communications Equipment for On-track Plant Working	2	04/03/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/30160	Optical Fibre Network Design	2	03/06/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/TEL/31108	Specification for BT circuits - procurement requirements	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/TEL/0022	Preventative maintenance of operational telecoms assets	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/TEL/30077	Specification for the maintenance of cable distribution frames and location cases	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/TEL/30090	Specification for the maintenance of telecom equipment rooms	4	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/TEL/30106	Installation of Lineside Telephones	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/TEL/00027	Digital Subscriber Line Transmission Equipment	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/PS/TEL/00028	Climate Controlled Trackside Housing of Telecommunications Equipment	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/TEL/30107	Telecoms lineside Copper Cable Enclosures	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/TEL/31102	Screening Conductor for the Immunisation of Telecommunications Cables	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/TEL/30002	Signal Post Telephone Concentrator Systems	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/TEL/30031	Signal Box telephone Concentrator System Design and Application requirements	4		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/TEL/30035	Telecoms Network terminating Points	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/TEL/30133	Asset condition assessment for telecom equipment	3	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/TEL/11189	Testing Telephones at Level Crossings	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
ELECTRICAL POWER													
NR/SP/ELP/21014	Specification of Voltage Testing of High Voltage Electrical Distribution Equipment (Including Cables) on AC and DC Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21015	Maintenance of Negative Traction Cables and Bonding for DC Conductor Rail Systems	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21018	Specification of Indoor Switchgear for 11, 22, 33kV Distribution Systems for DC Traction Substations	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21019	Specification for Transformer/rectifier Equipments for DC Traction Substations	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/ELP/21020	Specification for 11, 22, 33 kV Aux. Transformer up to and Including 500kVA for DC Traction Substations	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21021	Specification for Step-down 3-phase Transformers and Earthing Resistors for Power Distribution in DC Traction Systems	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21024	Specification for Impedance Protection Relay for 650/750V DC Track Feeder Circuit Breakers	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21026	Specification for 415V and 440V Changeover Switchboards for DC Traction Substations	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21028	Specification for Ancillary Wiring of Electrical Distribution Equipment on AC and DC Electrified Lines	3	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21030	Specification for Prefabricated and Modular Steel Housings for Electrical Distribution Equipment on DC Electrified Lines	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21032	Earthing Systems for DC Traction Substations, Track Paralleling Huts and Similar Equipment Locations	2	Apr 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21033	Specification for the Welding of Transformer Tanks and Conservators During Manufacture	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21036	Specification for 25kV Booster Transformers for AC Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/ELP/21041	Specification of Batteries and Battery Charging Equipment for Electrification Applications	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21046	Examination of DC Traction Electrification Equipment in Light Maintenance Depots	3	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21051	Specification for Calculation of Protection Settings for DC Circuit Breakers	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21060	Issue of Safety Documentation for Work on 650/750VDC Apparatus	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21066	Restrictions on Entry into Substations Equipped with GEC Type KC 33kV Switchgear	4	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21073	The Siting of Pantograph Monitoring Equipment	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21074	Overhead Line Equipment Allocation Design for Railway Electrification	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21075	Specification for DC Immune 25kV Single Phase Isolating Transformers for Interfaces Between AC and DC Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21078	Specification for Design of Return Conductor Systems for AC Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21081	Specification of Security Palisade Fencing for Electrical Distribution Installations for AC and DC Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/ELP/21082	25kV Overhead Line Equipment Insulators	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21085	Design of Earthing and Bonding Systems for 25kV AC Electrified Lines	E3	Apr 07	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21104	Design and Installation of Electric Track Equipment for DC Electrified Lines	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21106	Specification for 25kV AC System Protection Calculations	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21107	Bolted Running Rail Connections for Traction Bonding on AC and DC Electrified Lines	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21112	Calculation of Protection Settings for 3-phase H.V. Distribution Systems	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/21130	Technical Competency Requirements for Design of Overhead Line Equipment	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/24009	Competence Requirements for Personnel who Undertake Electrical Control Operators Duties	3	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27030	Overhead Line Equipment as Installed Data Records	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27042	The Location and Design of Designated Earthing Points for Overhead Line Equipment	2	April 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27044	Allocation of Designations for Switching Stations, Auxiliary Supply Points, Electrical Sections, Overhead Line Switches, Circuit Breakers and the Like, for AC Electrified	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Lines												
NR/SP/ELP/27048	Maintenance of Positive Conductor	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27169	Isolation of Switching Stations at Electrical Control Room Boundaries to Comply with issue of Permits-to-work and Sanctions-for-test Certificates	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27175	Acceptance of High Mast Winching Mechanisms and Associated Equipment	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27176	Design of Retention Toilet Servicing Installations	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27178	Examination of Pressure Vessels	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27183	50 Cycle Single Phase AC Electrification Overhead Line Equipment	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27192	Design and Installation of Negative Bonding and Associated Equipment on High Current DC Electrified Lines	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27193	Specification for Earthing and Bonding for Dollands Moor International Freight Yard	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27195	Earthing and Bonding at North Pole International Depot	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27200	Track Datum Markers on all Overhead Electrified Lines	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27202	Concrete for Overhead Line Equipment Structures	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/ELP/27203	Provision of Isolation, Earthing and Indication Facilities Where Local Isolations are Permitted on AC Electrified Lines	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27205	Specification for the Installation and Operation of Buffer Sections and Permanently Earthed Sections in AC Overhead Line Equipment	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27210	Maintenance of Electro-mechanical Supervisory Equipment	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27217	Emergency Disconnection of Grid Supply Feeders for DC Electrification	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27224	Specification for Installation of Cable Routes Forming Part of The Traction Distribution System	2	April 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27228	Specification for New and Upgraded Lifts	1	Oct 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27234	Specification for Design and Maintenance of Hydraulic Fluid Power Systems	1	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27242	Specification of Low Voltage Electrical Installations on Railway Premises (Including Plugs, Sockets, Trailing Leads and Appliances)	1	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27243	Specification for Signalling Power Supplies	1	Aug 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/27300	Specification for Computer Aided Design Formats for Electrification and Plant Documentation	E1	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/ELP/40041	Core Maintenance Specification for Overhead Trolley Jumper Systems	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/40042	Periodic Inspection and Testing of Electrical Installations, Appliances and Equipment	3	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ELP/40067	The Installation and Upgrading of Escalators and Passenger Conveyors	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/21131	Warning and Other Signs for AC and DC Electrified Lines	1	Nov 97	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/27223	Specification for Tyne and Wear Metro (Sunderland Extension) – OLE Maintenance	E1	Jun 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/P/24000	Content and Preparation of Control Room Instructions	3	Dec 02	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/P/24010	Management of Warnings and Alarms Received from Trackside Pantograph Monitoring Equipment	1	Nov 97	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/P/27180	Operating & Maintaining Escalator Trolleys at London Victoria	1	Dec 04	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/00003	Resistive Type Live Line Indicators	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/00006	Portable DC Short Circuiting Devices	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/00007	Product Specification for Uninterruptible Power Supplies (UPS)	3	Oct 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/00008	Product Specification for High Voltage Cables and Accessories for Traction Supplies	3	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/00021	Product Specification for Standby Diesel Generators for	2	Oct 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Signalling Supplies												
NR/PS/ELP/00022	400V 3-phase AC Shore Supply Equipment for use in non Electrified Areas	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/21072	Trackside Pantograph Monitoring Equipment	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/21101	Track Cable for DC Electrified Lines	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27182	Insulating Shroud for Foot of Conductor Rail	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27184	25kV Rotating Post Type Isolators	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27185	25kV Power Transformers and Voltage Regulators for Auxiliary Supplies	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27187	Product Specification for Fused Isolators	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27188	Silicone–Rubber Covered Primary Live Line Insulated Poles	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27189	Ancillary Equipment Enclosures for 25kV Structure Mounted Outdoor Switchgear	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27196	Specification for Outdoor Ancillary Cubicles for 25kV AC Isolation Transformers	2	Feb 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27219	750V DC Track Voltage Relays	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27220	Paired Core Compound Filled Supervisory Cable	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PS/ELP/27236	25kVAC Single Phase Switchgear and Ancillary Equipment	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/ELP/27000	Asset Management Policy for Electrical Power Assets	1	Jun 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/21087	Risk Based Maintenance for Overhead Line Assets	6	Mar 15	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/21120	E&P Records	1	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Management Process												
NR/L2/ELP/24011	Booster Transformer Outages	3	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/24013	Notification of Energisation of New AC and DC Electrified Lines	4	Dec 10	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27009	Overhead Line Equipment Campaign Changes	2	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27212	Maintenance of Mark I Overhead Line Equipment	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27213	Maintenance of Mark IIIa Overhead Line Equipment	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27214	Maintenance of Mark IIIb Overhead Line Equipment	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27229	Specification for Remote Control Equipment for Electrical Distribution Systems	2	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27238	Maintenance Specification for Fixed Plant Equipment	7	Jul 14	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27239	Maintenance Specification for Electrification Distribution Equipment	2	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27307	Management of Reports for Safety Related Events Applicable to Electrification and Plant	2	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27311	Engineering Assurance Requirements for Design and Implementation of Electrical Power Engineering Infrastructure Projects	4	Jun 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27320	Fixed Plant Equipment Reporting	2	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27400	Specification for 25-0-25kV Traction	2	Sep 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Autotransformers												
NR/L2/ELP/27401	Configuration management and change to protection and control systems	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27402	Specification for protection and control devices for electrical systems	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27408	Product Specification for Signalling Power Distribution Cables			N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27409	Product Specification for Functional Supply Points (FSP)	1	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27410	Specification for Class II Based Signalling Power Distribution Systems	1	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/27411	Product Specification for Polymeric Insulators for Top-Contact Conductor Rails	1	Mar 12	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/40045	Electric Point Heating	6	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/40068	Principal Supply Point (DNO + DG) Specification	1	Jun 07	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ELP/40069	Specification for Railway Pumping Installations	1	Jun 07	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/00110	Maintenance of Electrification, Plant, Signalling and Telecommunications Equipment, Incorporating Asbestos Materials or Components	2	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/21067	Instructions for Making out Issuing and Cancelling High Voltage Permits to Work, Sanctions for Test and Circuit State Certificates	5	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/ELP/22001	Procedure and competence requirements for persons undertaking works in the vicinity of high voltage cables	1	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27077	Single to Three Phase Converter Installations	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27078	Routine Inspection and Maintenance of Diesel and Electrically Driven Compressed air Installations	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27115	Arrangements for Isolation of the Conductor Rail for Preplanned Possessions of the Line	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27122	Loss of High Voltage Supply to, or the Tripping of, a High Voltage Circuit Breaker for no Known Reason in a Substation Building Containing Metal Clad Switchgear With Bitumastic Compound Filled Busbar Chambers	3	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27134	Reporting of Electric Track Equipment Defects	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27135	Recording Method for DC Safe Setting Calculations	3	Jun 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27218	Preparation or Modification of Comprehensive Track Diagrams	3	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27232	Work Instruction for Defect Reporting	2	Aug 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27237	Overhead Line Work Instructions	9	Jun 15	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27240	Distribution Work Instructions	5	Sep 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27241	Fixed Plant Work Instructions	4	Sep 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/ELP/27404	Management of Request for Extended DC Feeding Arrangements	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ELP/27406	Engineering Deliverable Requirements for Electrical Power Asset Design	2	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/3091	DC Electrified Lines Working Instructions	E2	Dec 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27052	Working Instructions for DC Electrified Lines on the Northern City Line	4	Jun 07	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27096	Work Instruction for Production of Mean and Peak Current Profiles for 25kV AC Electrification	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27114	Work Instruction for Carrying out Testing on all Electrified Lines	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27116	Standard for Replacement Components to be Used on Electrification Equipment	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27127	Work Instruction for Network Rail/euro Tunnel Electrical Interface at Folkestone Operating and Maintenance Procedures	2	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27140	Application of Short Circuiting Straps for Conductor Rail Isolations	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27171	Issue, Storage, Routine Inspection and Testing of Rubber Gloves	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/WI/ELP/27173	Application of a BR Standard Short Circuiting Bar in an Emergency	2	Apr 06	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/WI/ELP/27231	Work Instruction for the Operation of 11kV Supplies at Slade Green Depot, Ashford IECC and Victoria Station	1	Dec 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/WI/00109	Machine Switch out in Conjunction with the Trial of on Track Maintenance Machines	E1	Feb 04	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/WI/00112	Isolation and Earthing Instructions for Cauldwell Depot TSC	E1	Sep 04	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/WI/27222	Profile Gauging of Steel Conductor Rail	1	Dec 04	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/G/27225	Guidance Manual for Stations and Depots – Equipment Maintenance	1	Jun 05	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/111	Lever Modification Upgrade to Arthur Flury Single Rod Neutral Sections	1	Nov 10	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/113	Special Inspection of Bonding at Bridges, Tunnels and Other Overline Structures	1	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/114	Identification of Electrical Distribution Switchgear with Dependent Manual Operating Mechanisms	1	Dec 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/117	Special Inspection of Arthur Flury Skidless Single Rod Neutral Sections	1	Jan 13	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/119	Survey of Signalling Functional Supply Points Sites to Identify Sites that may Require Additional Electrical Safety Provisions	2	Jul 13	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/122	Inspection of Siemens 8DA Switchgear for Partial Discharge	1	Jul 13	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SIN/127	Inspection, Identification, Removal or Modification of Compensation Weights	1	Mar 14	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SIN/135	Special Inspection, of UK1 Equipment Contact Wire Knuckles	1	Jun 14	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RAIL MOUNTED VEHICLE & PLANT													
RT/E/S/40017	Core Maintenance Specification for Powered Scrubber/ Sweeper	1	Feb 96	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/40028	Core Maintenance Specification for Traversers	1	Feb 96	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/S/40031	Core Maintenance Specification for Wheeldrops	1	Feb 96	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/E/PS/00016	Lineside Hot Axle Bearing Detectors	1	Oct 02	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/RMVP/0001	Network Rail's Plant and Traction and Rolling Stock (T&RS) Policy	4	Oct 17	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0087	Management of Portable and Transportable Plant	1	Jun 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0090	Management of Maintenance for Traction and Rolling Stock, On Track Machines and On Track Plant	3	Jun 12	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0131	Design and Installation of Fuelling, Lubrication Oil and Coolant Storage and Delivery Systems	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0139	Design and Installation of Traversers	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0140	Design and Installation of Turntables	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RMVP/0142	Refurbishment of Underfloor Wheel Lathes	1	Dec 09	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/RMVP/0172	Management of the Control and Calibration of Inspection, Measuring and Test Equipment	2	Sep 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/PLANT/0200	Infrastructure Plant Manual	9	June 17	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0003	Assurance, Performance and Monitoring of Rail Vehicles	1	Dec 10	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0130	Design and Installation of Carriage Washing Machines	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0132	Design and Installation of Cranes	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0133	Design and Installation of Underfloor Wheel Lathes	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0134	Shunting Vehicles for use with Underfloor Wheel Lathe Facilities	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0135	Mobile Wheel Reprofilng Machines	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/0136	Vehicle Lifting Jacks	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/RVE/1350	Control of Rail Vehicle Testing	1	Dec 08	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/RMVP/0201	Calibration Work Instruction Manual	2	Jun 11	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/RVE/1006	Technical Audit Procedure for Rail Vehicle Engineering	2	Sept 2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
ASSET INFORMATION													
NR/L3/AIF/005	Management of asset data and information in the Rail Vehicle Asset Register	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
COMPETENCE & TRAINING MANAGEMENT													
NR/L1/CTM/001	Competence Management (formerly NR/CS/CTM/001)	1	31/12/2006	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/CTM/015	Competence & Training In DC Conductor Rail Engineering	1	30/06/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/SP/CTM/016	Competence & Training In Fixed Plant Engineering	1	30/06/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/CTM/017	Competence & Training in Civil Engineering	1	03/08/2006	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/CTM/032	Training. Competence And Assessment In Accident And Incident Investigation	1	02/06/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/014	Competence & Training In Overhead Line Engineering (formerly NR/SP/CTM/014)	2	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/018	Competence & Training In Traction Power Distribution Engineering (formerly NR/SP/CTM/018)	2	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/021	Competence & Training In Track Safety	4	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/022	Competence and Training in the Loading and Load Examination of Infrastructure Wagons (including Special Vehicles)	2	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/025	Competence & Training in On Track Plant Operation	1	31/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/201	Competence Management	2	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/202	Quality Assurance in Training & Assessment	2	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/206	Competence and Training in Lookout Operated Warning Systems	1	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/207	Competence and Training in Isolation Planning	1	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/220	Competence and Training in Portable. Transportable and Mobile Plant Operation	1	02/06/2013	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/CTM/222	Competence and Training in Track Welding, Weld Inspection and Ancillary Processes	1	04/06/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/223	Competence and Training in Managing Site Safety	1	04/06/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CTM/229	Competence and Training for Emergency Evacuation Wardens and Persons Responsible for Fire Safety	1	31/10/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/132	Awarding Body	3	05/09/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/301	Management Review & Advisory Visit Process	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/302	Production and Management of Training and Assessment Solutions	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/303	Trainer Approval	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/304	Training, Planning and Administration	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/305	Training Evaluation	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/306	Competence Assurance - Assessment in The Line (AiTL)	2	05/12/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CTM/307	Advanced Apprenticeship Scheme and Foundation Degree (part-time) Programme Administration	1	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
CIVIL ENGINEERING													
RT/CE/P/044	Managing Structures Works	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/035	Assessment of Structures	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/044	Undertrack Crossings	3	02/09/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/080	Management of Existing Bridges and Culverts	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/082	Management of Existing Retaining Walls	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

RT/CE/S/084	Management of Existing Tunnels	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/087	Management of Existing Buildings and Station Structures	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/089	Management of Existing Coastal, Estuarine and River Defences	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/CE/S/091	Management of Existing Ancillary Structures	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/CIV/032	The Management of Structures	2	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CIV/003	Engineering Assurance of Building and Civil Engineering Works	4	01/09/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CIV/086	Management of Earthworks	7	03/03/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/005	Railway Drainage Systems Manual	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/006	Handbook for the Examination of Structures	8	03/06/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/020	Design of Bridges	1	04/06/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/028	The management of Reports of Safety-Related Events on Civil Engineering infrastructure	5	05/09/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/030	Platform Components and Prefabricated Construction Systems	3	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CIV/035	Assessment of Structures	1	02/03/2019	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/037	Managing the Risk Arising from Mineral Extraction and Landfill Operations	3	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/038	Managing the Potential Effects of Coal Mining Subsidence	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/039	Specification for the Assessment and Certification of Protective Coatings and Sealants	5	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/CIV/040	Specification for the use of Protective Coating Systems	1	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/041	Waterproofing Systems for Underline Bridge Decks	3	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/065	Examination of Earthworks	6	02/09/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/071	Geotechnical Design	4	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/076	Management of the risk of Bridge Strikes from Road Vehicles and Waterborne Vessels	4	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/142	The Management of the Movement of Abnormal Road Loads	3	02/12/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/151	Engineering Assurance of Standard Designs and Details for Building and Civil Engineering Works	6	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/160	The Design of Car Parks for Railway Stations and Depots	1	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/162	Platform Extensions	2	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/164	Legionnaires' Disease – The Control of Legionella Bacteria in Water Systems	1	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/176	Management of Reports on Bridge Strikes	4	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CIV/300	Managing Complaints About Pigeons	1	02/06/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
COMMERCIAL PROPERTY													
NR/L2/PRO/001	Property Clearance Process	1	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
CONTRACTS & PROCUREMENT													
NR/L1/CPR/101	Sourcing and Purchasing Policy	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/CPR/102	Sourcing and Supplier Governance Policy	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/CPR/103	Supplier Assurance Framework	1	01/03/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CPR/201	Supplier Qualification	2	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/CPR/302	Supplier Qualification – Core Requirements	2	03/09/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L3/CPR/305	NR/L3/CPR/305 How to Change Utility Supplies	1	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/CPR/306	Disposal of Redundant Railway Assets	3	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
ENVIRONMENT													
NR/CS/ENV/001	Environment Management Standard	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/ENV/001	Corporate Environment Manual	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/D/P/003	Noise and Vibration Complaints	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
RT/LS/P/007	Project Management and the Environment	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ENV/015	Contract Requirements Environment	7	02/06/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/ENV/050	Environmental Performance Indicators	1	01/04/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/ENV/044	Track Maintenance, Renewal or Alteration – Used Ballast Handling	4	01/09/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
FIRE SAFETY POLICY													
NR/L1/FIR/100	Fire Safety Policy	6	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/101	Fire Safety – Managed Stations	7	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/102	Fire Safety – Operational Estate	7	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/103	Fire Safety – Offices and Competency and Training Delivery Centres	5	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/105	Fire Safety – Property: Business Space, Freight & Miscellaneous Portfolios	4	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/106	Fire Safety – Maintenance	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/107	Fire Safety – Fire Risk Assessment	3	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/108	Fire Safety – Fire Extinguishers	3	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/FIR/109	Fire Safety – Fire Log Book	3	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NATIONAL DELIVERY SERVICE / NATIONAL SUPPLY CHAIN													
NR/L2/OPS/202	Principles, Timescales and Functional Responsibilities for Engineering Work, Access and Heavy Resource Planning	7	02/07/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/NDS/203	Loading and Securing of Infrastructure Traffic	3	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/NDS/205	Rail Delivery and Recovery Systems Overview	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/006	NDS Process for the Management of Fatigue and Working Hours for Employees Undertaking Safety Critical Work	1	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/047	Train Operations Manual - Contents	21	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/302	Planning of Engineering Access & NDS-Supplied Resource for Work Deliverers	5	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/303	T3 Possession of the Line for Engineering Work Delivery Requirements	4	02/09/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/305	Rail Delivery and Recovery	2	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/306	Planned General Safety Inspections	1	04/09/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/NDS/307	NDS Waste Management	1	02/06/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
OPERATIONS AND CUSTOMER SERVICES/PRINCIPLES & STANDARDS													
OPERATIONS AND CUSTOMER SERVICES													
NR/L2/OCS/002	Driving Cab Passes	6	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/009	Network Capability Management Procedure	1	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/031	Risk Assessment and Briefing of Timetable Change	9	06/09/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/042	Railway Operational Code Implementation, Variation and	3	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

	Review Process												
NR/L2/OCS/050	Route Crime Risk Management	1	01/06/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/060	Customer requirements for the Provision of Train Running Information on Stations	1	01/12/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/070	Major Infrastructure Changes – the Provision of Staff Briefing Material to Train Operators	4	05/03/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/095	Determining High Risk Sites for Wrong Side Track Circuit Failures in Leaf Fall Areas	5	05/09/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OCS/098	Management of Short-term Network Change	2	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/OCS/084	Line Clear Arrangements Following Engineering Works in Axle Counter areas – Line Clear Verification Process	3	03/12/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
OPERATIONS PRINCIPLES & STANDARDS													
NR/CS/OPS/200	Network Rail Security Manual (formerly RT/LS/P/200)	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/CS/OPS/250	Emergency Response Manual	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/015	Working of Passenger Trains Over Non-Passenger Lines	1	01/12/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/033	Radio Communications for the Control Of Trains (Including On Track Machines and On- Track Plant) in Possessions	2	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/034	Management of Rule Book Change	1	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/OPS/035	Dissemination of Urgent Operating Advice	4	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/037	Management of Spoken Safety Communication	2	01/12/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/060	The Management of Heat Related Emergency Restrictions of Speed Resulting from High Air Temperatures	3	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/100	Provision, Risk Assessment and Review of Level Crossings	2	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OPS/101	Temporary Vehicular Level Crossings and Temporary Increased use of Existing Level Crossings	3	06/03/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/OPS/009	Track Circuit Operating Device (T-COD) Identification of Locations for use	3	26/08/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
SAFETY & COMPLIANCE													
ACCIDENT INVESTIGATION													
NR/L2/INV/002	Accident and Incident Reporting and Investigation	13	03/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/INV/3001	Reporting and Investigation Manual	5	04/06/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
ASSURANCE													
NR/SP/ASR/036	Network Rail Assurance Framework	5	02/12/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
HEALTH & SAFETY SYSTEMS													
RT/LS/P/034	Safety Procedure Manuals	3		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/HSS/020	Safety Validation of Organisation Change & Safety Management System Change	10	05/12/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
OCCUPATIONAL HEALTH & SAFETY													
NR/CS/OHS/002	Policy on Working Safely	1	07/04/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/CS/OHS/005	Personal Security	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/OHS/501	Track Warning Systems	1		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/OHS/00102	Work Activity Risk Assessment	5	03/06/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/OHS/00114	Specialist Risk Assessment - Hand Arm Vibration	1	07/04/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/OHS/00122	Specialist Risk Assessment - Workplace Noise	1	07/04/2007	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/SP/OHS/069	Lineside Facilities For Personal Safety	2		N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L1/OHS/051	Drugs and Alcohol Policy	6	05/03/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/005	"High Street" Environment & Conditions for Work Outside Network Rail Managed Infrastructure	7	04/12/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/019	Safety of People Working on or Near the Line	9	03/07/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/020	Track Visitor Permits	5	01/12/2008	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/021	Personal Protective Equipment and Workwear	3	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/022	Working Safely at Height	1	04/03/2012	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/0047	Application of the Construction (Design and Management) Regulations to Network Rail Construction Projects	5	06/09/2014	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/050	Sentinel Scheme Rules	4	04/06/2011	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00103	Specialist Risk Assessment COSHH	3	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00107	Management Procedure - Display Screen Equipment	3	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00110	First Aid at Work	6	03/03/2018	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00112	Worksafe Procedure	2	05/12/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00113	Health Screening and Surveillance for Hand Arm Vibration	5	04/06/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A

NR/L2/OHS/00117	Specialist Risk Assessment – New and Expectant Mothers	2	05/06/2010	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00120	Testing for Drugs & Alcohol	5	05/03/2016	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00123	Health Screening and Health Surveillance for Noise Induced Hearing Loss	1	01/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/00124	Competence Specific Medical Fitness Requirements	3	04/03/2017	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L2/OHS/133	Code of Practice for Planning and Delivering Safe Work (PDSW)	1	07/03/2015	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/OHS/00125	Specialist Risk Assessment - COSHH for Functions other than Maintenance, Operations and Customer Services and the National Delivery Service (NDS)	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/OHS/MTC/0150	Specialist Risk Assessment - COSHH for Infrastructure Maintenance	3	07/03/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
NR/L3/OHS/NDS/301	Specialist Risk Assessment - COSHH For NDS	1	06/06/2009	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A
TRACK													
All standards.	All standards.	N/A	N/A	N/A	N	N	N	N	None	N/A	No change.	Nil	N/A