

National technical rules for infrastructure

Related control command and signalling requirements

Control, Command and Signalling TSI (Commission Regulation (EU) 2016/919 of 27 May 2016)

Amended by Commission Implementing Regulation (EU) 2019/776 to align with the Fourth Railway Package Technical Pillar

RGS	Title	Issue No.	Issue date	In force date	Application conditions	A) For technical compatibility with legacy subsystems: <i>National requirements in addition to the TSI requirements</i>	B) Addressing TSI open points: <i>National requirements where there are no TSI requirements</i>	C) Addressing TSI specific cases: <i>National requirements which are alternatives to the TSI requirements</i>	Changes relating to December 2019 notification
BR1654	Radio Electronic Token Block System	2	Dec-86	Dec-86	Part 2	Parts 3 to 13 (relevant for Class B CCS system)	None	None	None
GERT8018	Mechanical Trainstop System Interface Requirements	2	Sep-12	Dec-12	Part 5	2.2.1 2.2.2 2.6.6 2.6.7 2.6.8 [Note: requirements in Part 3 are notified vehicles rules].	None	None	None
GERT8075	AWS and TPWS Interface Requirements	3	Mar-18	Mar-18	Part 4	Part 2 relevant for Class B CCS System [Note: requirements in Part 3 are notified vehicle rules].	None	None	None
GIRT7033	Lineside Signs	3	Jun-15	Mar-16	Part 3	2.2.2 2.2.3 2.3.1 2.3.2	None	None	None
GKRT0028	Infrastructure Based Train Detection Interface Requirements	3	Sep-16	Dec-16	Part 4	All requirements	None	None	None
GKRT0055	Block System Interface Requirements	1	Sep-13	Dec-13	Part 3	2.1 2.2 2.3 2.4.1 2.4.3 2.4.4 2.4.5 2.4.6 2.4.7 2.4.8 [Note: 2.4.2.1 is a notified vehicle rule].	None	None	None

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GKRT0057	Lineside Signal and Indicator Product Design and Assessment Requirements	1	Dec-14	Mar-15	Part 5	All requirements	None	None	None
GKRT0075	Requirements for Minimum Signalling Braking and Deceleration Distances	5	Dec-18	Mar-19	Part 4	All requirements and appendices	None	None	The standard was revised and requirements relevant to lineside signalling braking and deceleration distances have been retained in issue five. Requirements relevant to positioning and timing of AWS have been transferred to GERT8075. Other requirements are retained in RIS-0703-CCS, RIS-0734-CCS and RIS-0735-CCS.

Notes:

- 1) If a requirement is not notified for A), B) or C) then it does not meet the characteristics of an NTR.
- 2) Changes are highlighted in yellow. No standards have been withdrawn in entirety since the last notification update.

National technical rules for infrastructure

Related energy requirements

Energy TSI (Commission Regulation (EU) No 1301/2014 of 18 November 2014

Amended by Commission Implementing Regulation (EU) 2019/776 to align with the Fourth Railway Package Technical Pillar

RGS	Title	Issue No.	Issue Date	In force date	Application conditions	A) For technical compatibility with legacy subsystems: <i>National requirements in addition to the TSI requirements</i>	B) Addressing TSI open points: <i>National requirements where there are no TSI requirements</i>	C) Addressing TSI specific cases: <i>National requirements which are alternatives to the TSI requirements</i>	Changes relating to December 2019 notification
GLRT1210	AC Energy Subsystem and Interfaces to Rolling Stock Subsystem	2	Dec-19	Dec-19	Part 4	Part 2 Part 3	<p>3.1.5 addressing ENE TSI open point: 4.2.9.1 (contact wire height at level crossings).</p> <p>3.2.1 addressing ENE TSI open point 4.1 (overhead contact line systems) and EN 50122 clause 4 (contact line zone and current collector zone).</p>	<p>3.1.1 3.1.2 3.1.3 3.1.4 3.1.6 addressing ENE TSI specific case: 7.4.2.9.2 for 4.2.9.1 (contact wire height).</p> <p>3.1.6 addressing ENE TSI specific case: 7.4.2.9.3 for 4.2.9.2, 4.2.10 (maximum lateral deviation and pantograph gauge).</p> <p>2.2.2.2 addressing ENE TSI specific case: 7.4.2.9.4 for 4.2.18 (protective provisions against electric shock).</p> <p>3.9 addressing ENE TSI specific case: 7.4.2.9.5 (conformity assessment of OCL as component).</p>	<p>Issue two revises requirements that deal with pantograph/overhead contact line mechanical interaction to align with the LOC&PAS TSI.</p> <p>In addition a clarification has been published against 2.2.2.1 (Protective provisions against direct contact - protection by clearance) to ensure the intended meaning of the requirement is correctly applied.</p>
GLRT1212	DC Conductor Rail Energy Subsystem and Interfaces to Rolling Stock Subsystem	1	Sep-15	Dec-15	Part 4	None	None	All requirements addressing ENE TSI specific case: 7.4.2.9.1 (for 4.2.3 voltage and frequency).	None

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GMRT2132	On-board Energy Metering for Billing Purposes	1	Sep-10	Dec-10	Part 4	<p>2.7 for on-ground energy data collecting system.</p>	<p>None for ENE TSI</p> <p>[Note: 2.5 for data transfer on-board to ground 2.6 for communication service - on-board to ground addressing LOC&PAS TSI open point 4.2.8.2.8 and Appendix D - part 5 (on-board energy measurement system). Commission Implementing Regulation (EU) 2018/868 of 13 June 2018 closed the open point on energy metering. By 1 January 2022, Member States shall ensure that an on-ground energy data collecting system capable of exchanging compiled energy billing data in accordance with point 4.2.17 of this TSI is implemented. Hence these NTRs remain open until that time].</p>	None	None

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GMRT2173	Requirements for the Size of Vehicles and Position of Equipment	2	June 18	Sept 18	Part 5	<p>None</p> <p>Note: 3.2 and Appendix A are notified vehicle rules for technical compatibility with legacy platforms that have a radii greater than 160m and less than 300m. Other NTRs in Part 3 are notified vehicle rules.</p> <p>3.2 and Appendix A are also notified to address the PRM TSI specific case.</p>	None	<p>3.4 and Appendix E addressing ENE TSI specific case 7.4.2.9.3 (for 4.2.9.2 maximum lateral deviation and 4.2.10 Pantograph gauge).</p> <p>GMRT2173 sets out the pantograph sway of UK rolling stock in clause 3.4 and Appendix E.</p> <p>[Note the following vehicle rules notified for specific cases: 2.2, 2.3 notified for the purposes of the specific case in the LOC&PAS TSI 7.3.2.27 and WAG TSI specific case 7.3.2.7 (rules to manage changes in both rolling stock and rolling stock type).</p> <p>3.3, 3.4 and Appendix E, 3.5 and Appendix B, 3.6 and Appendix C+I11 are notified to address the LOC&PAS TSI specific case 7.3.2.2 (for 4.2.3.1 (gauging).</p> <p>3.2 and Appendix A have been notified to address the PRM TSI specific case 7.3.2.6 (table 25) for 4.2.2.11 (step position for vehicle access and egress) for radii over 300m where the TSI gives a choice of using the NTR or the PRM TSI. The PRM TSI applies for track radii from straight track down to 300m.</p> <p>3.2 and Appendix A are also notified for technical compatibility with legacy platforms that have a track radii greater than 160m and less than 300m.]</p>	None

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2) Chnages are highlighted in yellow. No standards have been withdrawn in entirety since the last notification update.

National technical rules for infrastructure

Related infrastructure requirements

Infrastructure TSI (Commission Regulation (EU) No 1299/2014 of 18 November 2014 (The combined INF TSI includes in Appendix Q a list of the notified National Technical Rules for the UK-GB Specific Cases)

Amended by Commission Implementing Regulation (EU) 2019/776 to align with the Fourth Railway Package Technical Pillar

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GCRT5021	Track System Requirements	5	Dec-11	Mar-12	Part 5	2.4.1.2 - 2.4.2.1 2.5.1.2 - 2.5.2.1 2.5.3.1 - 2.5.5.1 2.5.7.1 - 2.5.10.2 2.5.12.1 - 2.5.13.1 2.5.14.1 - 2.5.14.3 2.5.15.1 - 2.5.15.3 2.6.4.1 - 2.6.4.2 2.6.5.1 - 2.6.5.2 2.6.6.1 - 2.6.6.2 2.6.7.1 - 2.6.8.1 2.6.9.1 - 2.6.9.2 2.7.3.1 - 2.7.7.1 2.10.1 - 2.10.2 2.11.2.1 - 2.11.3.1 2.11.3.3 2.11.4.1 - 2.11.8.2 3.1.1 3.2.1.1 3.2.3.1 3.2.6.1 - 3.2.8.1 3.2.9.2 3.2.10.1 3.2.11.1 - 3.2.11.2 4.7.1.1 - 4.7.1.4	None	4.7 addressing INF TSI specific case 7.7.17.4 for 4.2.5.3 and Appendix J (maximum unguided length of fixed obtuse crossings).	None

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GERT8006	Assessment of Compatibility of Rail Vehicle Weights and Underline Bridges	2	Sep-10	Dec-10	Part 5	None [Note: Part 3 and Appendix A are notified vehicle rules].	Part 2 and Appendix A addressing INF TSI open point: 4.2.1 and Appendix E/F (TSI categories of line).	Part 2 and Appendix A addressing INF TSI specific case 4.2.7.4 and Appendix F (resistance of existing bridges and earthworks to traffic loads).	None
GERT8014	Axlebox Condition Monitoring - Hot Axlebox Detection	2	Jun-11	Sep-11	Part 4	None	None	3.1 3.2 addressing LOC&PAS TSI specific case 7.3.2.3 for axle bearing condition monitoring.	None
GERT8073	Requirements for the Application of Standard Vehicle Gauges	3	Dec-15	Mar-16	Part 5	None for infrastructure. [Note: Part 3 is a notified vehicle rule].	None	All requirements and Appendices A to N addressing the following specific cases: 7.7.17.1 for 4.2.1 (categories of line: gauge) 7.7.17.2 for 4.2.3.1 (structure gauge) 7.7.17.3 for 4.2.3.2 (distance between track centres) 7.7.17.7 for 4.2.9.3 (platform offset) 7.7.17.9 for 6.2.4.1 (assessment of structure gauge) 7.7.17.10 for 6.2.4.2 (assessment of distance for track centres) 7.7.17.11 for 6.2.4.11 (assessment of platform offset) [Note: the relevant specific case for vehicles is the LOC&PAS TSI specific case 7.3.2.2 for 4.2.3.1 (gauging)].	None
GIRT7020	GB Requirements for Platform Height, Platform Offset and Platform Width	1.1	Jun-19	Jun-19	Part 3	2.3	None	2.1 addressing INF TSI specific cases: 7.7.17.1 for 4.2.1 (categories of line: gauge) 7.7.17.2 for 4.2.3.1 (structure gauge) 7.7.17.6 for 4.2.9.2 (platform height) 7.7.17.9 for 6.2.4.1 (assessment of structure gauge) 2.2 addressing INF TSI specific cases: 7.7.17.1 for 4.2.1 (categories of line: gauge) 7.7.17.2 for 4.2.3.1 (structure gauge) 7.7.17.7 for 4.2.9.3 (platform offset) 7.7.17.9 for 6.2.4.1 (assessment of structure gauge) 7.7.17.11 for 6.2.4.11 (assessment of platform offset)	None
GIRT7073	Requirements for the Position of Infrastructure and for Defining and Maintaining Clearances	2	Jun-18	Sep-18	Part 4	None	None	All requirements and Appendices A and B addressing the following INF TSI specific cases: 7.7.17.1 for 4.2.1 (categories of line: gauge) 7.7.17.2 for 4.2.3.1 (structure gauge) 7.7.17.3 for 4.2.3.2 (distance between track centres) 7.7.17.7 for 4.2.9.3 (platform offset) 7.7.17.9 for 6.2.4.1 (assessment of structure gauge) 7.7.17.10 for 6.2.4.2 (assessment of distance for track centres) 7.7.17.11 for 6.2.4.11 (assessment of platform offset)	None

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GMRT2466	Railway Wheelsets	4.1	Dec-19	Dec-19	Part 4	None	None	<p>3.4.1 addressing INF TSI 7.7.17.4 for 4.2.5.3 (Maximum unguided length of fixed obtuse crossings).</p> <p>[Note: 2.1.1, 2.1.2, 3.1.1, 3.2.3 addressing WAG TSI specific case 7.3.2.5 for 4.2.3.6.2 (characteristics of wheelsets) and the LOC&PAS TSI specific case 7.3.2.6 for 4.2.3.5.2.2 (mechanical and geometric characteristics of wheelset and wheel)</p> <p>3.2.1, 3.2.2, 3.2.3 addressing WAG TSI specific case 7.3.2.5 for 4.2.3.6.2 (characteristics of wheelsets) and the LOC&PAS TSI specific case 7.3.2.6 for 4.2.3.5.2.1 (mechanical and geometric characteristics of wheelset and wheel)</p> <p>2.1.3 supported by guidance (relating to cast wheels) addressing WAG TSI 6.1.2.3 b) and LOC&PAS TSI 6.1.3.1 (3)</p>	None

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