



Briefing Note

Documents for Lineside Signals, Indicators and Layout of Signals

New Documents

Document number	Document title	Issue
GK/RT0045	Lineside Signals, Indicators and Layout of Signals	1
GK/GN0645	Guidance on Lineside Signals, Indicators and Layout of Signals	1

Documents to be withdrawn

Document number	Document title	Issue
GK/RT0031	Lineside Signals and Indicators	4
GK/RT0032	Provision of Lineside Signals	2

Standards Committee(s): Control, Command & Signalling – Lead (CCS), Traffic Operation and Management (TOM), and Energy (ENE)

Issue date: 6 February 2010

Documents come into force/cease to be in force: 3 April 2010

Background

The scope of this project has been to prepare a new Railway Group Standard (RGS) GK/RT0045, to comply with the Railway Group Standards Code Issue 3 to replace GK/RT0031 and GK/RT0032. The Guidance Note GK/GN0645 has also been produced to support this new standard.

GK/RT0045 incorporates those requirements in GK/RT0031 and GK/RT0032 that remain in scope of RGS as well as additional requirements necessary to address the approved non-compliances and proposals for change raised against GK/RT0031 and GK/RT0032. There are three operational measures in GK/RT0031 and GK/RT0032 which have been referred to the Traffic Operations and Management Standards Committee who decided that they are sufficiently covered in the Rule Book and the local instructions and could therefore be withdrawn.

The Guidance Note GK/GN0645 supports and explains the rationale behind the requirements mandated in GK/RT0045.

Scope

GK/RT0045 defines the format, presentation and layout of lineside equipment that is used to display movement authority information to train crew and train dispatchers.

Key changes

The following key changes addressing approved non-compliances and proposals have been incorporated into GK/RT0045. The measures contained in GK/RT0045 are applicable to three areas of the rail industry – suppliers, application designers and operators.



Withdrawn Measures:

The requirements that have not been carried forward into GK/RT0045 have been withdrawn because they are:

- a) Single duty holder requirements. Those requirements that are carried out by a railway undertaking (RU) or infrastructure manager (IM) and do not involve co-operation between duty holders at the working interface have been identified as single duty holder responsibility in tables 1 and 2. They are out of scope of RGS in accordance with the Code.
- b) Requirements repeated in other RGS. The repeated requirements have been cross-referenced to the relevant RGS, where appropriate.
- c) Requirements that no longer promote the best long-term interest of the mainline railway as a whole.
- d) Requirements that describe activities that are no longer carried out because the equipment is no longer fitted.
- e) Requirements that are not prescriptive and include statements such as 'consideration should be given to' and 'it is permissible to'. These are not measures and should not be retained in RGSs.

In addition, three measures that are in scope have been withdrawn from this RGS and transferred for consideration to the TOM Delivery Unit who decided that they are sufficiently covered in the Rule Book and the local instructions.

New Measures:

All the new requirements involve co-operation between two or more duty holders and comply with the scope criteria set out in section 4.2.1 of the Code.

- a) Displayed form of signalled movement authority. (GK/RT0045 section 2.1.1 a-b)
- b) Displayed form of indication. (GK/RT0045 section 2.1.2)
- c) Colour light signal flashing aspects – New requirement for the double yellow aspect to flash in synchronism. (GK/RT0045 section 2.2.1.4 c-d)
- d) Banner repeating signal – New requirements for the three state banner have been incorporated (GK/RT0045 sections 2.2.4.7 a, b, c, 2.2.4.8, 2.2.4.10)
- e) Preliminary route indicator – requirements for preliminary route indicators (PRI) have been added (06/249/NC). (GK/RT0045 section 2.3.3)
- f) Provision of preliminary route indicators. (GK/RT0045 section 2.8.1.8)
- g) Points indicators – provision of a red flashing light for the stop indication (GK/RT0045 section 2.4.1.1)
- h) Drivers LC indicator – emitted light time (GK/RT0045 section 2.4.2.1)
- i) TPWS indicators. (GK/RT0045 section 2.4.9)
- j) Splitting distant signals - prohibition of semaphore signal applications. (GK/RT0045 Appendix A Table A1)
- k) Miniature alphanumeric route indicators meeting performance category 3 – readability requirements. (GK/RT0045 Appendix E Table E1)
- l) Semaphore signal arm arrangements at junctions. (GK/RT0045 section 2.8.6.2)
- m) The relative vertical position of stacked semaphore signal arms shall correspond with the extent of each divergence
- n) Combination of semaphore stop and distant signal arms. (GK/RT0045 section 2.7.5.4)



- o) The requirements for semaphore stop signal arms meeting performance category 2. (GK/RT0045 section 2.2.6.7)
- p) Provision of standard and miniature types of alphanumeric route indicators. (GK/RT0045 sections 2.3.2.9 – 2.3.2.10)

Compliance requirements

GK/RT0045 and GK/GN0645 are scheduled to be issued 6 February 2010 and to come into force on 3 April 2010. Any additional or changed requirements will not be applied retrospectively.

Impact of proposed changes to Notified National Technical Rules (NNTRs)

Open point		NTR proposed before changes notified in this Briefing Note		NTR proposed following changes notified in this Briefing Note		Reason for amendment to proposed NTR
TSI	Clause	RGS	Clause	RGS	Clause	
HS CCS	4.2.16	GK/RT0031 Issue 4	B8.1, table 3, rows 3 and 4	GK/RT0045 Issue 1	2.2.5.5, table 4, rows 1 and 2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
HS CCS	4.2.16	GK/RT0031 Issue 4	B10.1 and B10.2	GK/RT0045 Issue 1	2.3.2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
HS CCS	4.2.16	GK/RT0031 Issue 4	B12	GK/RT0045 Issue 1	2.4.2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
HS CCS	4.2.16	GK/RT0031 Issue 4	B19	GK/RT0045 Issue 1	2.5.1	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
CR CCS	4.2.16	GK/RT0031 Issue 4	B8.1, table 3, rows 3 and 4	GK/RT0045 Issue 1	2.2.5.5, table 4, rows 1 and 2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
CR CCS	4.2.16	GK/RT0031 Issue 4	B10.1 and B10.2	GK/RT0045 Issue 1	2.3.2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045



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CR CCS	4.2.16	GK/RT0031 Issue 4	B12	GK/RT0045 Issue 1	2.4.2	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045
CR CCS	4.2.16	GK/RT0031 Issue 4	B19	GK/RT0045 Issue 1	2.5.1	The measures in GK/RT0031 Issue 4 will be transferred to the new RGS GK/RT0045

Deviations authorised by RSSB

Still in force against GK/RT0031 Issue 4

Deviation number	Original applicant	Topic
03/314/NC, 04/096/DGN, 05/053/DGN, 05/054/DGN, 05/069/DGN, 05/070/DGN, 05/071/DGN, 05/123/DGN, 05/124/DGN, 05/125/DGN, 05/142/DGN, 05/161/DGN, 05/168/NC, 05/176/DGN, 05/177/DGN, 06/031/DGN, 06/166/NC, 06/219/DGN, 06/248/NC, 07/003/DGN, 07/004/DGN, 07/058/DGN, 07/147/NC, 08/185/DGN, 08/218/TNC (expiring 06/12/2009), 08/222/DGN, 08/226/DGN, 09/007/DGN, 09/053/TNC (expiring on 10/03/2010), 09/063/DGN, 09/067/DGN, 09/142/DGN, 09/164/DGN	Network Rail	Lineside Signals and Indicators

Still in force against GK/RT0032 Issue 2

Deviation number	Original applicant	Topic
03/056/DGN, 03/144/GN, 03/194/DGN, 03/211/DGN, 03/235/DGN, 04/009/NC, 04/011/NC, 04/012/NC, 04/104/DGN, 05/079/DGN, 05/108/DGN, 06/238/NC, 07/201/DGN, 08/026/DGN, 08/060/DGN, 08/073/NC, 08/108/NC, 08/122/DGN, 08/123/DGN, 08/154/DGN, 08/190/DGN, 08/199/DGN, 08/200/DGN, 08/214/DGN, 08/219/TNC (expiring on 06/12/2009), 09/002/DGN, 09/032/DGN, 09/033/DGN, 09/062/DGN, 09/103/TNC (expiring on 10/06/2010), 09/104/DGN, 09/140/DGN	Network Rail	Provision of Lineside Signals



Deviations not applicable to the new document GK/RT0045

Deviation number	Original applicant	Topic	Reason
03-056-DGN 03-211-DGN 03-235-DGN 03-314-NC 05-069-DGN 05-070-DGN 05-071-DGN 05-108-DGN 05-123-DGN 05-124-DGN 05-125-DGN 06-031-DGN 07-003-DGN 07-004-DGN 08-185-DGN 08-226-DGN 09-007-DGN 09-063-DGN 09-142-DGN 03-235-DGN 04-104-DGN 05-079-DGN 07-201-DGN 08-060-DGN 08-122-DGN 08-123-DGN 08-154-DGN 08-190-DGN 08-199-DGN 08-200-DGN 08-214-DGN 08-219-TNC 09-002-DGN 09-062-DGN 09-103-TNC 09-104-DGN 09-140-DGN 09-032-DGN 09-033-DGN	Network Rail	Lineside Signals and Indicators	Not applicable but addressed in the new GK/RT0045



Deviation number	Original applicant	Topic	Reason
03-314-NC 03-194-DGN 04-009-NC 04-011-NC 04-012-NC 04-096-DGN 05-053-DGN 05-054-DGN 05-142-DGN 05-168-NC 05-176-DGN 05-177-DGN 05-161-DGN 05-142-DGN 06-166-NC 06-219-DGN 06-238-NC 06-248-NC 07-058-DGN 07-147-NC 08-222-DGN 08-073-NC 09-053-TNC 09-067-DGN 09-164-DGN	Network Rail	Lineside Signals and Indicators	Withdrawn