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Level 3

Installation of Lineside Telephones

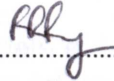
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Issue record

Issue	Date	Comments
1	June 2006	Original
2	August 2008	Updated to reflect Phase 2A reorganisation

Compliance

This Network Rail Work standard is mandatory and shall be complied with by Network Rail staff and contractors if applicable from 26 August 2008.

When this standard is implemented, it is permissible for all projects, which have formally completed GRIP Level 4, not to comply with requirements contained herein unless the designated Standard Owner has stipulated otherwise in the accompanying Briefing Note.

Reference documentation

See section 3.

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1 Purpose

This Work Instruction in support of [NR/SP/TE/30094](#) – Installation of Telecommunications Equipment and Systems, mandates the installation requirements for the installation of lineside telephones on Network Rail infrastructure.

2 Scope

This Work Instruction applies to the installation of new lineside telephones. Where like for like renewals take place these principles shall be applied as far as reasonably practicable.

For the purposes of this standard the term Lineside telephone shall also include the support post on which the telephone is installed and the tail cable.

The four types of lineside telephone covered by this Work Instruction are:-

1. Signal post telephone (SPT)
2. Other direct lines to signal boxes
3. Platform telephone
4. Level crossings telephones

The Work Instruction also shows an example of an anti-vandal installation method.

This Work Instruction does not include the installation of plug points.

This Work Instruction does not cover the health and safety requirements for the carrying out of the installation.

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3 Reference Documentation

GI/RT7012	Requirements for Level Crossings
GE/RT8000	Rule Book
NR/CS/TEL/30029	Telecoms Installation
NR/CS/TEL/30092	Telecommunications Testing and Commissioning
NR/CS/ACC/029	Product Acceptance
NR/SP/OHS/011	Prevention of Damage to and Danger from Surface & Buried Services
NR/SP/TEL/30032	Positioning & Labelling of Lineside Telephones
NR/SP/TEL/30094	Installation of Telecommunications Equipment and Systems
NR/WI/TEL/30108	Manual Installation of Telecoms Cable
NR/WI/TEL/00113	Wiring of Copper Telecoms Terminations

4 Definitions

Direct Line

A telephone that only connects the user to one location, for example a signal box or an electrical control room.

Identification label

Any sign or label usually fitted on an external surface of the telephone

Information Label

An information label usually fitted on an internal surface of a telephone

Lineside Telephone

Any fixed telephone installed on or about the railway and required for the day-to-day running of the railway or specifically identified for use in an emergency on the railway. This includes both telephones that are located at, or accessible from, the lineside.

NR PE

Network Rail Project Engineer

PETS

Public Emergency Telephone System.

Plug Point

A socket provided to allow telephones fitted with a suitable plug to be used as a lineside telephone.

Signal Post Telephone (SPT)

A direct line telephone provided adjacent to a signal and linked to the controlling signal box, whose primary purpose is to allow safety related instructions to be passed between the signaller and the driver of a train.

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Tail Cable

A length of cable which runs from a location case, equipment room or disconnection box, along or across the track and terminates on a telephone.

ZHLS

Zero Halogen Low Smoke.

5 Installation Requirements

The following sections detail the installation requirements for lineside telephones. Appendix A shows example drawings of all the installation requirements with a photo of this installation shown in Appendix B.

The requirements of [NR/SP/OHS/011](#) – Prevention of Damage to and Danger from Surface and Buried Services shall be complied with for all installations.

5.1 Positioning Requirements

5.1.1

Telephones shall be positioned at the location specified in the detailed design in accordance with [NR/SP/TEL/30032](#) – Positioning & Labelling of Lineside Telephones and where required by this standard through compliance with Railway Group Standard [GK/RT0037](#) – Signal Positioning and Visibility and Network Rail Line Standard.

5.2 Telephone Mounting and Positioning

5.2.1

SPTs shall be positioned such that a person using the telephone can readily see all elements of the signal and associated identifications and to permit the user to operate the telephone whilst standing up (approximately 1.2m to 1.5m high)

5.2.2

All telephone types shall be supported on a galvanised steel PSTN type mounting post with the telephone mounted directly to the top of the post using four securing bolts through the pre-drilled holes in the telephone case.