

Ref	NR/PS/TEL/00028
Issue	2
Date	April 2006

Business Process Document

Controlled Climate Trackside Housing for Telecommunications Equipment (formerly RT/E/PS/00028)

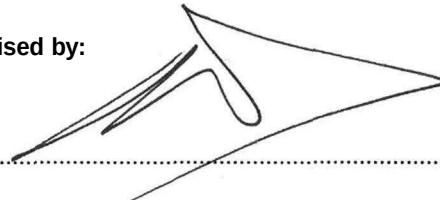
Endorsement & Authorisation

Endorsed by:



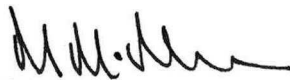
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Published & Issued by: Network Rail 40 Melton Street, London NW1 2EE



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Issue record

Issue	Date	Comments
1	February 2002	First Issue
2	April 2006	Document re-numbered as part of standards framework process. Railtrack changed to Network Rail.

Implementation

This standard shall be implemented from April 2006.

Compliance

This Network Rail Product Specification is mandatory and must be complied with by Network Rail and its Contractors from April 2006.

When this Specification is implemented, it is permissible for all projects, which have formally completed GRIP Level 4, to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Level 4 was reached and not to comply with requirements contained herein unless the designated Head of Telecoms has stipulated otherwise in the accompanying Briefing Note.

Where the Head of Telecoms has specified that all projects will comply with the requirements, specific authority not to comply can be sought in the usual manner using the appropriate non-compliance authority processes described in Network Rail Standard, [NR/SP/STP/045](#) Managing the Process for Non-compliance Authority (formerly RT/LS/P/045).

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1 Purpose

This Product Specification states the minimum requirements for Controlled Climate Trackside Housings for Telecommunications Equipment supporting operational railway and business services.

2 Scope

2.1 General

2.1.1

This Product Specification states the requirements for supply of Controlled Climate Trackside Housing for Telecommunications Equipment. It shall be used by persons responsible for the specification of trackside housings for active telecommunications equipment.

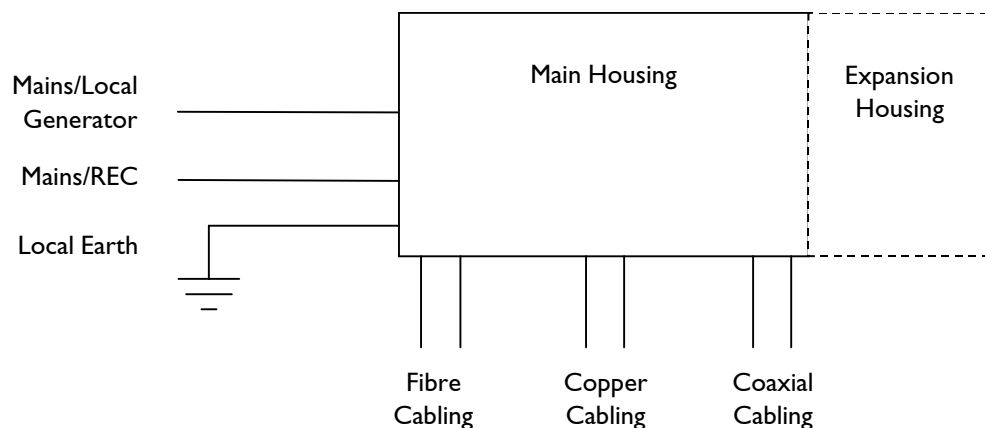
2.1.2

The Trackside Housing is designed to provide a suitable internal environment for active telecommunications equipment including power supply equipment and battery.

2.2 Configurations

The housing shall be provided in the following configurations:

1. Main Housing
2. Optional Expansion Housing



3 Reference documentation

NR/SP/CIV/039 (RT/CE/S/039)	Specification R.T. 98 – Protective Treatments for Railtrack Infrastructure
NR/GN/SIG/11821 (RT/E/C/11821)	Siting Requirements for Lineside Apparatus Housings
NR/PS/TEL/00013 (RT/E/PS/00013)	Cable Troughing
NR/PS/TEL/00014 RT/E/PS/00014	Telecommunications Optical Fibre Cable
NR/PS/TEL/00015 (RT/E/PS/00015)	Unit Twin Copper Telecommunications Cable
NR/SP/TEL/30003 (RT/E/S/30003)	The Performance of Telecommunications Equipment under Conditions of Electrical Interference
NR/CS/ACC/029 (RT/LS/P/029)	Product Acceptance
BS 381C	Specification for colours for identification, coding and special purposes
BS 4343	Specification for industrial plugs, socket-outlets and couplers for a.c. and d.c. supplies
BS 6004	Electric cables. PVC insulated, non-armoured cables for voltages up to and including 450/750 V, for electric power, lighting and internal wiring
BS 60529	Specification for degrees of protection provided by enclosures
BS 6290	Lead-acid stationary cells and batteries
BS 7671	Requirements for electrical installations. IEE Wiring Regulations. Sixteenth edition
BS EN 60068	Environment Testing
EN 50121-1	Railway applications – Electromagnetic compatibility Part 1: General
EN 50121-4	Railway applications – Electromagnetic compatibility Part 4: Emission and immunity of the signalling and telecommunications apparatus

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- ETS 300 019-1-3 Environmental conditions and environmental tests for telecommunications equipment Part 1-3: Classification of environmental conditions Stationary use at weather protected locations
- ETS 300 119-4 European telecommunication standard for equipment practice Part 4: Engineering requirements for subracks in miscellaneous racks and cabinets

4 Definitions

Housing

Trackside Housing including all ancillary climate control, alarm reporting and security equipment

5 General Characteristics

5.1 Safety

5.1.1

The housing shall comply with all legislative requirements.

5.1.2

The housing shall be electrically safe for users and maintainers. Conformance with BS 7671 is acceptable as evidence of this.

5.1.3

All aspects of the procedures for handling, preparation and testing shall meet the requirements of the Health & Safety at Work Act 1974.

5.2 Performance Requirements

5.2.1

The housing shall be designed for operation throughout England, Scotland and Wales. It shall typically be sited adjacent to railway lines, and may be in a sheltered or exposed location.

5.2.2

The supplier shall ensure that the design and operation of the housing prevents the accumulation of toxic or explosive gases, and in particular hydrogen gas. In the event that an accumulation of gas is unavoidable,