

Letter of instruction

Information for users

The following document:

NR/L2/TEL/30076 Issue 2

has had changes made to it, most recently, with effect from **23 September 2013**.

Instructions for use

It is essential that you first read and understand each letter of instruction pertaining to the standard before proceeding to use the standard. You must then apply the requirements of each letter to the standard.

NR/BS/LI/311	Issue 1	Expired December 2014	Proceed to letter ►
NR/L2/TEL/30076	Issue 2	07 March 2009	Proceed to standard ►

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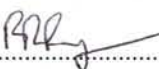
Ref:	NR/L2/TEL/30076
Issue:	2
Date:	7 th March 2009
Compliance date:	5 th September 2009

Level 2

Specification for the Maintenance of Processor Controlled Concentrators

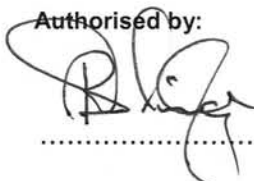
Endorsement and Authorisation

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Issue record

Issue	Date	Comments
1	June 2006	First Issue
2	March 2009	Responsibilities previously denoted within each appendix now removed and placed within section 4 (Responsibilities). Six monthly services (Service A in each appendix) now relaxed to Yearly and the old services A & B now merged into a new service A. Appendix D, clarification that Concept 16, 32 & MACE variants are covered added and wording of tasks A5 & A6 improved to recognise the difference in concentrator products. Maintenance of Keltek TSSUs now added, specified in Appendix D Service B. Requirement to functional test all spare handsets now amended to exclude those which are still bagged and sealed.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 05/09/2009.

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

Reference documentation

NR/SP/TEL/30002	Signal Post Telephone Concentrator System
NR/SP/TEL/31001	Telecommunications Maintenance Testing & Failure Investigation
NR/L2/TEL/31002	Maintenance of Telecommunications Equipment.
NR/L2/TEL/30081	Maintenance of Telecoms Power Plant and Batteries
NR/L2/TEL/30083	Maintenance of Telephones Instruments in Operational Buildings.
NR/L2/TEL/30084	Maintenance of Lineside Telephones and Tail Cables

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1 Purpose

This telecoms maintenance instruction defines the maintenance requirements for Processor Controlled concentrators used by Network Rail.

The purpose of maintaining and testing operational concentrators is to decrease the incidence of failures through deterioration and to identify potential failures before they become service affecting.

2 Scope

This instruction applies to all persons engaged in the maintenance and testing of Processor Controlled concentrators.

The concentrator installation may, by design, be constructed from a number of remote nodes or shelves. These shall be considered as separate concentrators and subject to the applicable procedures in the relevant appendix.

The maintenance requirements for the Power Plant and Batteries used to support Electro mechanical concentrators is detailed in NR/L2/TEL/30081.

3 Definitions (in addition to those defined in NR/L2/TEL/31002).

LED

Light Emitting Diode

LMR

London Midland Region

Processor Controlled Concentrator

A concentrator utilising analogue switching technology, controlled by a microprocessor running a program held in firmware.

4 Responsibilities

The maintainer must come to a clear understanding with the system users, normally Network Rail signallers, of the work scope before maintenance work is undertaken.

Where more than one service has been scheduled for a maintenance visit, the services shall be performed in reverse alphabetic order.

All defects identified during maintenance shall be reported to fault control for entry into the fault recording database for further investigation.

All actions taken to correct deficiencies identified during maintenance shall be recorded on the maintenance work return.

Indicators and meter displays on the equipment are to be regarded as indication only and shall not be relied upon for measurements required within this appendix.

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The maintainer shall follow the procedures and frequencies as detailed in the attached appendices:

- Appendix A – Maintenance of Protowire CW Series
- Appendix B – Maintenance of Protowire 62-Type
- Appendix C – Maintenance of Postfields (AP Electronics)
- Appendix D – Maintenance of STS Intertec / Kestrel & TSSUs
- Appendix E – Maintenance of Wyatt 8001
- Appendix F – Maintenance of LMR Modular (Pembaphone)
- Appendix G – Maintenance of Philips Sopho

Where more than one service has been scheduled for a maintenance visit, the services shall be performed in reverse alphabetic order.