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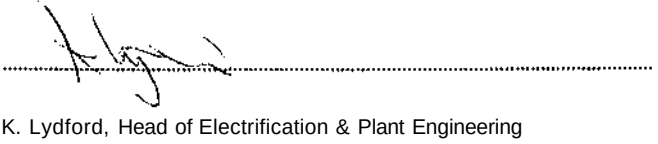
Business Process Document

Periodic inspection and testing of electrical installations, appliances and equipment

Endorsement & Authorisation

Endorsed by:



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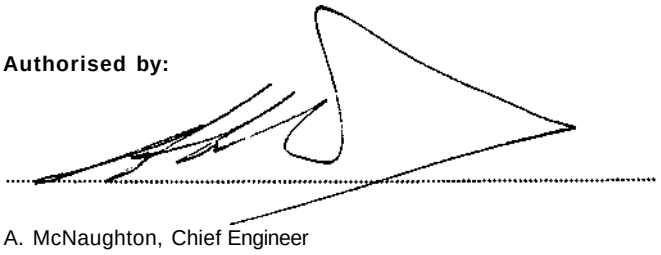

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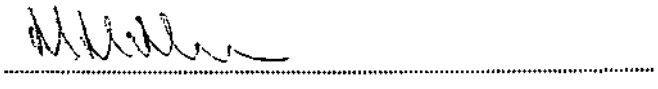

M. McManus, National Standards Manager

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Issue record

Issue	Date	Comments
3	February 2006	Re-issued as a SAF3 Business Process Document *(formerly RT/E/P/40042)*

Implementation

4 February 2006

Compliance

This Network Rail specification is mandatory and must be complied with by Network Rail and its contractors from 4 February 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 head of electrification and plant has stipulated otherwise in the accompanying briefing note.

Where the head of electrification and plant 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 document defines the minimum requirements for testing and examination and the minimum standards of testing that the installations, equipment and appliances shall undergo in order to ensure continued safe usage.

2 Scope

This document applies to all fixed installations operating at up to 400V [1] and portable, movable, stationary, hand-held and business appliances and equipment used by Network Rail personnel that require testing to enable compliance with the Electricity at Work Regulations (1989). This procedure does not apply to signalling functional circuits.

3 Reference documentation

BS 7671 : 2001 — *Requirements for electrical installations,* incorporating amendments No 1 : 2002 and No 2 : 2004

Code of practice for in-service inspection and testing of electrical equipment, published by the Institution of Electrical Engineers, 2001.

IEE Wiring Regulations, Guidance Note 3 - *Inspection & testing*, published by the Institution of Electrical Engineers.

4 Definitions

Appliance — Electrical equipment supplied by a plug and socket-outlet

Business equipment — Equipment such as computers and communications equipment that may suffer loss of information if disconnected from the electrical supply

Combined inspection and testing — A test incorporating a Formal Inspection and electrical test. The electrical test comprises of an earth-continuity test and insulation resistance test. Results are recorded in an asset register.

Fixed equipment — Equipment or an appliance that is fastened to a support or otherwise secured in a specified location.

Fixed installation — An assembly of associated electrical equipment supplied from a common origin to fulfil a specific purpose and having certain co-ordinated characteristics.

[1] The nominal value of 400V is used with respect to the European Harmonisation of Nominal Supply Voltages, effective from 1 January 1995. The Scope of this document is equally applicable to equipment previously rated at 415V nominal.

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