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Requirement Specification for an IECC System Monitor Terminal (formerly RT/E/S/I004I)

This temporary front sheet facilitates change to the new Network Rail Standards referencing nomenclature.

The Ref above will be formally allocated to this standard when it is next changed in the meantime the contents, date and issue number of this Network Rail Standard are UNCHANGED and with immediate effect it should be referred to as “(new ref) formerly (old ref)”.

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RAILTRACK LINE PRODUCT SPECIFICATION

REQUIREMENT SPECIFICATION FOR AN IECC SYSTEM MONITOR TERMINAL

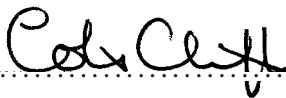
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SUMMARY

This document specifies the requirements for an IECC System Monitor (ISM) Terminal. This terminal is a replacement for the Lynwood J500 which is now obsolete and no longer available for purchase.

ISSUE RECORD

This Specification will be updated when necessary by the distribution of a complete replacement. Amendments will be marked by a vertical black line in the adjacent right hand margin. The latest issue of this specification shall be implemented immediately upon receipt.

Issue	Date	Comments
I Draft A	November 1998	Working Draft
I Draft B	December 1998	Updated following TW review
I Draft C	December 1998	Updated following AEAT Review
I Draft D	September 1999	Updated following ISM Project Start Up Mtg
I Draft E	October 1999	Updated following PES comments

RESPONSIBILITIES AND DISTRIBUTION

This specification shall be complied with by suppliers and by those engaged in the acceptance or type approval thereof.

IMPLEMENTATION

The requirements specified in this document are mandatory for any system used to replace a J500 terminal at an IECC site.

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I. INTRODUCTION

I.1 Purpose

- I.1.1 The purpose of this specification is to define the requirements for an Integrated Electronic Control Centre (IECC) System Monitor (ISM) Terminal for use within IECC-based signalling control centres.

I.2 Scope

- I.2.1 This specification applies to all IECC installations.
- I.2.2 This specification only covers the functionality of the ISM terminal, and not the functionality of the ISM itself.

I.3 Background

- I.3.1 Technician facilities within the IECC are provided by the ISM subsystem.
- I.3.2 The original ISM design made use of a Lynwood J500 terminal. This unit is now obsolete, and it is difficult to repair existing units.
- I.3.3 In order to allow the continued operation of existing IECCs, and to support the possibility of further IECC installations, a replacement terminal is required.

I.4 Overview of Requirement

- I.4.1 This requirement specification defines a new ISM terminal which can be used to replace an existing J500 terminal, without the need for data changes on the ISM.
- I.4.2 It is intended that the new ISM terminal will run on a commercially available PC.
- I.4.3 The user interface will make use of standard windows-type facilities in order to make the ISM terminal more straightforward to use than at present.
- I.4.4 This specification does not attempt to document the user interface to be provided in terms of exact command sequences. Instead it defines the functionality to be provided.
- I.4.5 The functionality of the ISM terminal shall be at least equal to the J500 that it replaces.
- I.4.6 In certain areas the chance has been taken to enhance the existing functionality, based on feedback from users. For example, an alarm filtering

facility is now specified in order to allow Technicians to detect the most critical alarms faster.

1.5 Other Specifications to be Considered

- 1.5.1 The ISM terminal is intended to run with the existing ISM software. ISM functionality is defined in the ISM Functional Specification^[1].

1.6 Abbreviations

ARS	Automatic Routesetting Subsystem
BST	British Summer Time
GMT	Greenwich Mean Time
IECC	Integrated Electronic Control Centre
IGS	Information Generator Subsystem
ISM	IECC System Monitor
PC	Personal Computer
RCM	Remote Control and Monitoring
SIM	Simulator Subsystem
SSI	Solid State Interlocking

2. MANDATORY FUNCTIONAL REQUIREMENTS

*Note: Functions not provided by the J500 terminal are marked with an asterisk.

2.1 Compatibility with J500 Installations

- 2.1.1 It shall be possible to connect an ISM terminal to a commissioned ISM and to operate the ISM terminal without the need for data changes on the ISM or any other sub-system.

2.2 Command Entry

- 2.2.1 A User may only use functions as defined within the User profile associated with the User.
- 2.2.2 All user commands shall be accessible by one or more of the following methods:
- a) Keyboard.
 - b) Mouse via a screen hit area.
 - c) Mouse via a menu selection.
- 2.2.3 *User input prompts shall be provided which indicate the required input format.
- 2.2.4 *Where possible the user shall be presented with default values whenever data entry is required.

2.3 System Start-up

- 2.3.1 The ISM Terminal shall be able to be started independently of the ISM subsystem.
- 2.3.2 The following information shall be viewable at all times when the ISM subsystem is operational but there is no user logged on:
- a) The ISM Status Display.
 - b) The System Status Display network diagram.
 - c) The most recently generated alarms, with at least 10 alarms viewable.
 - d) The most recently generated reports, with at least 10 reports viewable.
- 2.3.3 The ISM Terminal shall be available for a User to log in within 3 minutes of being powered on, assuming that it is connected to a working ISM sub-system.