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Level 3

Infrastructure Maintenance

Engineering Management Plan for Projects

Endorsement and Authorisation

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Issue record

Issue	Date	Comments
Issue 1.0	December 2010	First Issue as a standard. Updated from document issued in September 2009 not as a standard

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 05/03/2011.

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/L2/INI/02009	Engineering Management for Projects
NR/L3/RSE/0001	Safety Verification
NR/L3/RSE/0003	Remit and Role of a Competent Independent Person under Safety Verification
NR/L2/SIG/30035	Signalling Scheme Plan Technical Approval Process
NR/L3/RSE/0002	Interoperability (formerly NR/WI/ACC/0002)
RT/CE/S/003	Technical Approval of Design - Construction and maintenance of Civil Engineering Infrastructure (NR/SP/CIV/003)
SMF/MG456	Engineering Management Induction template
SMF/MG457	Technical Query Form
SMF/MG458	Document Review Notice
SMF/MG460	Inter Disciplinary Review Checklist
SMF/MG461	Engineering Compliance Certificate

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1 Purpose

This document specifies how Infrastructure Maintenance comply with NR/L2/INI/02009 *Engineering Management for Projects*. It shall be read in conjunction with NR/L2/INI/02009.

2 Scope

This Engineering Management Plan (EMP) applies to infrastructure projects, except where the type, complexity and scale of the whole of the project is covered by the NR/L3/MTC/RCS0216 *Risk Control Manual* and the complete works are managed and undertaken by Infrastructure Maintenance. In such cases Infrastructure Maintenance may undertake those projects relying on those controls and need not apply this standard.

The Engineering Management Plan for Projects provides the mechanism to address the technical requirements of the *Construction (Design and Management) Regulations 2007* (CDM Regulations) as defined by NR/L2/INI/CP0047 *Application Of The Construction Design And Management Regulations to Network Rail Construction Works*. The requirements of this standard apply to all projects which are notifiable under the CDM Regulations.

3 Definitions

Item	Definition
Asset Engineer	Track Maintenance Engineer, S&T Maintenance Engineer, E&P Maintenance Engineer, and equivalents in National Programme as applicable
Delivery Group	A defined Network Rail department or functional group accountable for the delivery of a single or multiple projects (programme of work) (see NR/L2/INI/02009)
Engineering Product	Specification, drawing, external standard, typical or other such which is used to define technical requirements of a project.
Project	Any planned work resulting in a material change to Network Rail's asset including new construction, relocation and alteration, refurbishment, renewal, decommissioning and recovery and demolition. This excludes maintenance activities. Work to protect Network Rail's asset when an Outside Party carries out work, on, over or under such asset. A project can consist of a number of similar or different individual work items that are independent from each other as may be detailed in the appropriate EMP (see NR/L2/INI/02009)

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Item	Definition
Infrastructure	The Track, the means of supporting the track, the signalling system (including relevant telecommunications) the traction power supply system and stations irrespective of who is the infrastructure manager.
Network Rail Infrastructure	Infrastructure for Network Rail is the infrastructure manager. It is as per *Infrastructure* except it excludes leased stations where the infrastructure manager is usually the lessee.

4 Abbreviations

Item	Definition
CEM	Contractor's Engineering Manager
CRE	Contractor's Responsible Engineer
DEM	Departmental Engineering Manager
DPE	Designated Project Engineer
EMP	Engineering Management Plan
IDC	Interdisciplinary Check
IMDM	Infrastructure Maintenance Delivery Manager
IME	Infrastructure Maintenance Engineer
PE	Project Engineer
PM	Project Manager
RAM	Route Asset Manager
RIMD	Route Infrastructure Maintenance Director
ROGS	The Railways and Other Guided Transport Systems (Safety) Regulations 2006.
RIR	The Railways (Interoperability) Regulations 2006 (as amended in 2007)
SP&C	Signalling, Power & Communications

5 Project Processes

NOTE This section contains details of processes specific to Infrastructure Maintenance, it specifically expands on items relating to signalling works. An example flow chart illustrating the process is shown in figure 1.

5.1 Engineering Management Plan

The Senior Engineer is accountable for the maintenance of the EMP. This EMP shall be maintained as a Level 3 Network Rail standard by a working group established under the Infrastructure Maintenance Standards Steering Group and

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