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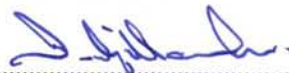
Ref:	NR/L3/INI/CP0077
Issue:	1
Date:	5 th March 2011
Compliance date:	4 th June 2011

Level 3

Signalling Pre Commissioning Verification Requirements

Endorsement and Authorisation

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Issue record

Issue	Date	Comments
1	March 2011	New standard which introduces a formal process outlining pre commissioning activities.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 4th June 2011.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 3 (Option Selection) to continue to comply with the issue of any relevant Network Rail standards current when GRIP Stage 3 was completed and not to comply with requirements contained herein, unless stipulated otherwise in the scope of this standard.

Reference documentation

NR/L3/INI/CP0064	Delivering Work within Possessions
NR/L2/INI/PM/GRIP/101	Governance for Railway Investment Projects (GRIP) - Project Management
NAT/PLA/INI/ENG/SP&C8414212	Engineering Management Plan (Signalling Power & Communications)
NR/L3/INI/CP0077/F0033	T – 37 Health Check
NR/L3/INI/CP0077/F0034	T – 12 Checklist
NR/L3/INI/CP0077/F0035	Inspection Completion and Compliance Form
NR/L3/INI/CP0077/F0036	Commissioning Readiness Review Report

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1 Purpose

This standard describes the requirements for undertaking pre-commissioning verification prior to commencing a major signalling commissioning.

The standard identifies documentation required to be produced prior to commissioning, details responsibilities for production and associated timescales which are clearly linked to points in time prior to the commissioning date in order that workload can be prioritised in a timely manner.

This standard is required to be read in conjunction with NR/L3/INI/CP0064 and specifies additional requirements regarding Delivering Work within Possessions.

2 Scope

The standard applies to all work undertaken by the Investment Projects Group and Asset Management where there is a large signalling element. It is to be applied to the following project work types:

- a) Major Re-signalling and Remodelling Projects;
- b) Renewals Projects;
- c) Re-control Projects.

The standard outlines the requirements of various pre commissioning activities that are to be undertaken before a commissioning is allowed to proceed. It also identifies relative timing of each activity prior to the commissioning taking place.

It may also be used for minor signalling works as a “best practice” guide.

The standard is not mandatory for those works associated with a smaller stage work weekend or a single weekend project.

3 Roles and responsibilities

Project Engineering Manager / Programme Engineering Manager

Post responsible for making sure that site audits are undertaken in accordance with the agreed inspection programme.

Programme Engineering Manager (T&C)

Responsible for undertaking the pre commissioning reviews and providing a recommendation as to whether the project is ready to proceed towards commissioning.

Senior Programme Manager

Post responsible for making sure that all major re-signalling and re-control projects adhere to the requirements contained within this standard.

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Senior Project Manager / Project Manager

Post accountable for making sure that the process specified within this standard is undertaken on all applicable projects.

Responsible for providing a “proceed” towards commissioning decision, following recommendation provided by the Programme Engineering Manager (T&C).

4 Definitions

For the purpose of this standard, the following terms and definitions apply.

Phrase or Title	Definition
Major	Schemes or projects of more than 30 Signalling Equivalent Units (SEUs)
Minor	Schemes or projects of 30 SEUs or less
Soak Test	A period of uninterrupted operation of new equipment where as many of the final inter-connections as possible are made, thus making sure that, the equipment is reliable and operation is as required. This will also uncover any “infant mortality” failures. The test may be interrupted by prior arrangement to amend or add to the equipment being tested, without invalidating the soak test.
T	The commencement date of the commissioning.

5 Commissioning Meeting Schedule

The meeting schedule assumed in this document is that Commissioning Meetings commence from the start of GRIP Stage 5 and have a frequency as follows:

- a) >T-12 months - every 2 periods (8 weeks)
- b) T-52 weeks to T-12 weeks - every period (4 weeks)
- c) T-12 to T-0 - every 2 weeks

6 Application of Countdown Checklists

The following checklists shall be reviewed, in their entirety, at each Commissioning Readiness Meeting:

- a) NR/L3/INI/CP0077/F0033 – T-37 Health Checklist;
- b) NR/L3/INI/CP0077/F0034 – T-12 Checklist.

The person responsible shall identify progress against each item on the checklists and assess the likelihood of successful completion by the review point specified. In order that the meeting can be efficiently run it is acceptable to record an “On Target”