

TECHNICAL INSTRUCTION

TI 146
Issue 1
13/01/2010
Page 1 of 2



NETWORK RAIL - SIGNAL ENGINEERING Aligning NR/GN/SIG/11701 to NR/L2/SIG/30014

Purpose

The purpose of this TI is to align [NR/GN/SIG/11701](#) to [NR/L2/SIG/30014](#).

Compliance requirements

When this TI 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.

Staff to be Briefed

All signalling designers and testers.

Changes to NR/GN/SIG/11701

Part D Section 3.2 (d) currently requires that all testing copies shall be printed on pink paper or bear an immovable pink label. This TI alters the requirement for the testing copies to:

“Copies of the engineering details to be used as the record of testing shall be identified with a “Test Copy” stamp not obscuring detail, or other uniquely identifying methods (e.g. printing on pink paper). These copies are commonly referred to as the Test Copies.”

Part G Section 2 does not state how the modifications are to be drawn and issued. This TI now defines that requirement to:

A modification sheet shall only show wiring alterations affecting one original wiring diagram. Schedules are to be considered in appropriate cases.

Modifications shall be split to give one modification only per geographical location where this is practicable.

A supplementary Modifications List shall also be issued to the Tester In Charge. This shall detail all modification serial numbers, including those issued during the commissioning itself, and the applicable Test Log number.

Originator's Details:-
Doug Gillanders
Network Rail
douglas.gillanders@networkrail.co.uk

PUBLISHED UNDER NR/L2/SIG/11120

TECHNICAL INSTRUCTION

TI 146

Issue 1

13/01/2010

Page 2 of 2

Part C Section 1 is to have the additional requirements added:

The Signal Works Testing Handbook [NR/L2/SIG/30014](#) section A210 allows for a reduced design requirement for minor or repetitive alterations. However, before this commences, clear documented agreement has to be reached between the designer, the construction authority and the Tester in Charge. All involved parties are to be clear as to exactly what is provided by Design and how that Design is implemented. The type of design to be carried out in the absence of the traditional red/green drawings may be a schedule of items to be changed, or uncoloured record copies that are to be annotated by the Tester in Charge as he progresses through the changes. The type of closure list to be provided is to be agreed and when that closure list is to be issued. Generally a single closure list shall be issued for a commissioning, and if a commissioning is divided into several stagework packages, a separate closure list shall be issued for each stagework commissioning. However, it is permissible to have an overall closure list issued for the testing of works such as those detailed in [NR/L2/SIG/30014/A210](#).

Where the extent of the works to be tested and commissioned is such that a large number of signalling design diagrams are required, it is permissible to divide the design into work packages (e.g. track circuits and bonding, locations, Signal Sighting, cabling, interlocking, signalling control and display facility, stagework) and to issue a closure list for each work package. The division of the design into work packages shall be detailed in the design specification. Simultaneous issue of closure lists is not then required and agreed issue dates shall be recorded in the Test Plan; in this case an index of closure lists shall be provided.

The level of design authority support, as the construction and testing progresses, is to be agreed prior to site work commencing.