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Issue:	4
Date:	04/06/2011
Compliance date:	03/09/2011

Level 2

Signalling Design: Module A8 - Design Record and Production Control

Endorsement and Authorisation

For endorsement and authorisation, please refer to
NR/L2/SIG/11201

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Issue record

Issue	Date	Comments
4	June 2011	Modularisation of handbook and guidance notes, contains content of former NR/GN/SIG/11701 Part D.

Compliance

This Module is mandatory and shall be complied with by Network Rail and its contractors if applicable from 03/09/2011.

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.

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1 Design Media

The relationship between the source record, master record and associated media is given in Figure 1. They can take the form of a computer aided design (CAD) design file, some electronic data medium, or a negative.

Technique	SOURCE RECORD	Medium for Production	MASTER RECORD (Medium for Obtaining Record Prints)
CAD	Design File	Production Copy of Design File Verified to Master	Signed Print of Design File
DATA	Two Master Disks/tapes	Production Copy of 1 Master Disk/Tape Verified to Other	Signed Data Listings
NEGATIVE	Negative (or Security Copy)	Negative	Signed Print of Negative

Figure 1 – Design Media

1.1 Source Record

There should be only one source record at any one time. It should depict the state of the current infrastructure. The production block on the source record (see [NR/L2/SIG/11201, Module A10](#), Figure 1), including the current Produced and Checked fields, should be unsigned to allow the medium for production and master record, in turn, to be derived from the source record. (Amendment signatures on existing negatives should not be removed, as these give the change history.) Except when alterations are in production (see Section 2), the source record should be retained by the records custodian.

It should take one of the following forms:

- CAD: Design details are produced as design files on CAD workstations and records held in electronic or data storage medium. The format is specified in [NR/L2/SIG/11201, Appendix A](#), and applies to all electronically produced drawings (including plans, charts and tables), except as described in Section 1.5.
- Data: Data files are prepared on the hard disk of a workstation (the working disk). The data files that comprise the source record are held in the form of two identical write-protected copy disks or equivalent e.g. Master Disk (1) and Master Disk (2). Labels for these disks are illustrated in Figure K2. The formats are specified in [NR/L2/SIG/11201](#), Appendices B to D. Where appropriate controls are in place to confirm the integrity of software, data may be stored on-line.
- Negative: This uses the media of pencil or ink on plastic film or linen. Its place should be taken by a security copy when the negative is used as the medium for production. The negative medium is generally only applicable for alterations to existing drawings, as negatives are being progressively transferred to the medium of CAD.