

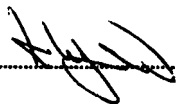
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Date	April 2006

Business Process Document

Design and installation of negative bonding and associated equipment on high current d.c. electrified lines

Endorsement & Authorisation

Endorsed by:



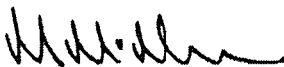
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Issue record

Issue	Date	Comments
2	April 2006	Re-issued as a SAF3 Business Process Document (<i>formerly RT/E/S/27192</i>)

Implementation

1 April 2006

Compliance

This Network Rail specification is mandatory and must be complied with by Network Rail and its contractors from 1 April 2006

When this specification is implemented, it is permissible for all projects, which have formally completed GRIP Level 4 to continue to comply with the Issue of any relevant Network Rail standards current when GRIP Level 4 was reached and not to comply with requirements contained herein unless the head of electrification and plant has stipulated otherwise in the accompanying briefing note.

Where the head of electrification and plant has specified that all projects will comply with the requirements, specific authority not to comply can be sought in the usual manner using the appropriate non-compliance authority processes described in Network Rail standard, [NR/SP/STP/045](#) *Managing the process for non-compliance authority* (formerly RT/LS/P/045).

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1 Purpose

Not used

2 Scope

This Specification details the engineering requirements for the design and installation of negative bonding on Network Rail D.C. Electrified Lines which are designated "High Current".

Where a situation arises that is beyond the scope of this document requiring a Standard or clarification this shall be referred to the Engineer (see section 4).

3 Reference documentation

GM/TT0128	Maintenance and Inspection of Negative Bonding on SC, SE and SW Divisions of Network South East
GM/TT0129	Production of Drawings for the Installation of Negative Bonding on the SC, SE and SW Divisions of Network SouthEast
GM/TT0108	750V DC Third Rail Electrified Lines. Traction Bonding
EHQ/ST/C/501	DC Electrified Lines: Electric Track Equipment Standards
EHQ/CP/C/703	Code of Practice for the Design and Installation of Negative Bonding and Associated Equipment on the DC Electrified Lines of Network SouthEast

Drawings	Drawing numbers listed in this document refer to Network Rail ETE Drawing Index
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4 Definitions

High Current D.C. Railway	The "High Current D.C. Railway" is defined for electrification purposes as those routes over which units with a sustained train traction current of 6.6kA or above operate a normal revenue or empty stock service (i.e. Class 373, Class 92 and Class 465 in 12 car formation or 10 car formation when operating in high power mode).
The Engineer	For the purposes of this document, "the Engineer" shall be the Electrical Distribution Engineer, Network Rail Engineering.

5 Implementation

On new High Current Railway Systems or electrification strengthening works on existing D.C. electrified lines, the requirements of this Specification must be implemented prior to operation of the traction units described in section 4.