

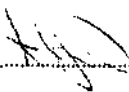
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Issue	2
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Business Process Document

Technical competency requirements for design of overhead line equipment

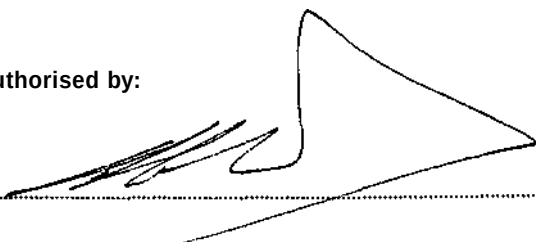
Endorsement & Authorisation

Endorsed by:



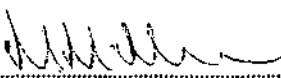
K. Lydford, Head of Electrification & Plant Engineering

Authorised by:



A. McNaughton, Chief Engineer

Accepted for issue by:



M. McManus, National Standards Manager

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2	February 2006	Re-issued as a SAF3 Business Process Document

Implementation

4 February 2006

Compliance

This Network Rail specification is mandatory and must be complied with by Network Rail and its contractors from 4 February 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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Contents

1	Purpose	5
2	Scope	5
3	Reference documentation	5
4	Definitions	5
5	Description of the a.c. traction system	7
5.1	The high voltage network	7
5.2	Service conditions	8
6	General clauses	8
6.1	Safety, Legislation and Regulations etc.	8
6.2	Design practice	9
7	Compliance with standards	9
7.1	European, International and British Standards etc.	9
8	Performance requirements	9
8.1	Accreditation	9
8.2	Responsibilities	9
8.3	Design activities	10
8.4	System design	10
8.5	Basic design (equipment and components)	10
8.6	Allocation design	11
8.7	Construction design	11
9	Verification of performance and quality	12
9.1	Quality assurance	12
10	Competency requirements	12
10.1	Adjudicators	12
10.2	Assessment requirements	12
10.3	System design	13
10.3.1	Personnel	13
10.3.2	System design process	14

Ref:	NR/SP/ELP/21130
Issue:	2
Date:	February 2006

10.4	Basic design (equipment and components)	14
10.4.1	Personnel	14
10.4.2	Basic design management	14
10.4.3	Basic design process	15
10.5	Allocation design	15
10.5.1	Personnel	15
10.5.2	Allocation design management	16
10.5.3	Allocation design process	16
10.6	Construction design	17
10.6.1	Personnel	17
10.6.2	Construction design management	17
10.6.3	Construction design process	18

1 Purpose

This specification states the requirements for technical competency and accreditation for the supply of overhead line equipment design to Network Rail.

2 Scope

This specification applies for all OLE design on Network Rail infrastructure.

3 Reference documentation

OLEMI	(Network Rail) Standard, Overhead line equipment master index
EN ISO 9001	Model for quality assurance in design, development, production, installation and servicing

4 Definitions

For the purpose of this specification the following definitions shall apply:

Accredited Designer	A designer or organisation who has received accreditation to supply Overhead Line design.
Adjudicator	A person or organisation nominated to scrutinise and evaluate organisations seeking accreditation of technical competency for the supply of overhead line equipment design.
Bills of Quantity	Summary showing quantity of materials and components.
British Standard	A standard published by the British Standards Institution. Its alphanumeric identity is prefixed by BS.
Design Organisation	A designer or organisation applying for accreditation to supply Overhead Line Equipment design.
Equipment	Equipment including all component parts and accessories.
European Standard	A standard published by the European Committee for Standardisation or by the European Committee for Electrotechnical Standardisation. Its alphanumeric identity is prefixed by EN.
International Standard	A standard published by the International Electrotechnical Commission. Its alphanumeric identity is prefixed by IEC.

Ref:	NR/SP/ELP/21130
Issue:	2
Date:	February 2006

Procurement Specification	The contract specific Network Rail documentation, such as, Invitation to Tender or Technical Work Scope.
Network Rail Business Process Standard	A collective term for a Network Rail Specification, Procedure or Guidance Note, published by a directorate of Network Rail.
System Design	The System Design covers the preparation and integration of the Power Supply design and Overhead Line Equipment design specification with the environmental requirements, other utility and statutory needs and constraints. It provides the principles and policies which shall be used in the Basic Design to achieve the performance specification.
Basic Design	Preparation of designs for Overhead Line Equipment and Traction Power Supplies based on the System Design, which record detailed technical illustrations, standards, specifications and dimensions of: General Arrangements, Assemblies, Sub-assemblies and Components. These Basic Designs are used for allocation, purchase, manufacturing, installation and commissioning of an electrification project and allow the subsequent maintenance requirements to be developed and implemented.
Allocation Design	The geographical allocation of the Basic Designs to an electrification project to meet the System Design and performance specification and thus allowing the production of a Bill of Quantity for all components and associated materials. The completed Allocation Design enables all materials to be identified, purchased, assembled as necessary and installed on the project, and determines the detailed records of construction for maintenance purposes.
Construction Design	The design activity in support of construction. Assessment of the Allocation Design, determination of installation methodology, identification of necessary change to Allocation Design to meet changes in site conditions or construction constraints. Components supplied are matched with a Bill of Quantity, and Basic Design to ensure compliance. Safety and quality of installation are managed to ensure safe construction and railway operation, and compliance with the Allocation and Basic Design
CDM	Construction (Design and Management) Regulations, 1994