

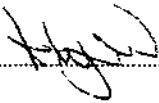
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Business Process Document

Specification for the welding of transformer tanks and conservators during manufacture

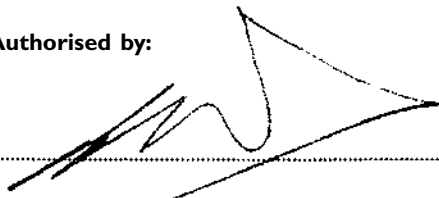
Endorsement & Authorisation

Endorsed by:



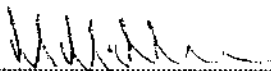
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2	December 2005	Re-issued as a SAF3 Business Process Document

Implementation

3 December 2005

Compliance

This Network Rail specification is mandatory and must be complied with by Network Rail and its contractors from 3 December 2005.

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 fixed plant has stipulated otherwise in the accompanying briefing note.

Where the head of electrification and fixed 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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Ref:	NR/SP/ELP/21033
Issue:	2
Date:	December 2005

Contents

1	Purpose	4
2	Scope	4
3	Reference documentation	4
4	Definitions	4
5	General clauses	5
5.1	European, International and British Standards etc.	5
6	Acceptance of welders and welding procedures	5
6.1	Acceptance of welding procedure specifications	5
6.2	Welder acceptance	5
6.3	Acceptance testing	5
7	Control of welding work	5
7.1	Welding supervision	5
7.2	Materials to be welded	6
7.3	Consumables	6
7.4	Welding procedures	6
7.5	Preparation for welding	6
7.6	Welding repairs	6
8	Non-destructive testing (NDT) and inspection	6
8.1	Procedure acceptance	6
8.2	Non-destructive testing (NDT) operator acceptance	7
8.3	Non-destructive test results	7
8.4	Visual inspection of welded joints	7
Appendix A	Levels of NDT inspection for steel	8
Appendix B	Minimum weld quality levels for arc welds in steel	9

1 Purpose

This specification states the requirements for the control of welding, including supervision, materials, welding procedures, inspection, testing and also the approval of welders and operators, to achieve the appropriate quality level during the manufacture of power transformer tanks and conservators.

2 Scope

This specification applies to new oil/synthetic liquid filled power transformers installed on the A.C. and D.C. Electrified Lines.

3 Reference documentation

EN 287	The approval of welders
EN 288	The approval of welding procedures
BS 5135	Arc welding of carbon and carbon manganese steels
BS 5289	Visual inspection of fusion welded joints
BS 5400	Surface finish

4 Definitions

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

British Standard	A standard published by the British Standards Institution. Its alphanumeric identity is prefixed by BS.
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.
Network Rail Company Standards	A collective term for a specification or procedure published by a directorate of Network Rail.
Procurement Specification	The contract specific Network Rail documentation, such as, Invitation to Tender or Technical Work Scope.