



Acceptance Services
Network Rail
Floor 3, 40 Melton Street
London. NW1 2EE

Certificate of Acceptance

Certificate No: PA05/04200 Issue: 1 Date: 20/07/2009
Effective date: 20/07/2009 Page 1 of 4

Product:	2.5MW 660/750V Transformer Rectifier Unit
Manufacturer:	Transformer & Rectifiers Ltd 15-16 Woodbridge Meadows Guildford Surrey GU1 1BJ

The product above is accepted for use on railway infrastructure for which Network Rail is the Duty Holder (as per the ROGS regulations) within the defined Scope of Acceptance and any specific conditions in the certificate. Where the product is to be used as part of infrastructure for which NR is not the duty holder (e.g. Leased station), this certificate may be taken as evidence that the product is compatible with NR infrastructure (within the Scope of Acceptance), however it shall not absolve the sponsor from complying with any product acceptance requirements of that duty holder before committing that product to use.

Failure to abide by the certificate requirements may lead to acceptance by Network Rail becoming invalid.

Scope of Acceptance

Electrical Power – HV 3 phase electrical systems.

Specific Conditions:

Refer to the pages which follow for the product configuration and detailed conditions of use.

Authorised by:

Richard Stainton
Head of Electrical Power Engineering



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SPECIFIC CONDITIONS

MANUFACTURER

- Ensure that the latest relevant standards/ drawings are available and worked to, and that the product is compliant.
- Notify Network Rail Acceptance Services:
 - Within 48 hours, of any deficiencies affecting the product quality, functionality and safety integrity of the product (including corrective action undertaken or proposed).
 - Of any intended change to the accepted product. Changes include:
 - a) a change to the product configuration (to the actual product or its application);
 - b) a variation to or addition of manufacturing locations or processes; and
 - c) a change in the name or ownership of the manufacturing company.
- Provide all documentation in the English (UK) language.
- Provide operating and maintenance manuals to purchasers/users of the product.
- Provide training manuals and an appropriate level of training to purchasers/users of the product.

USER CLAUSES

- Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Acceptance Services.
- Users are responsible for ensuring that the product is fit for purpose and that the application of use complies with the scope of acceptance. Any product defect should be taken up immediately with the supplier. If the defect is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway this shall be reported in writing to Network Rail Acceptance Services.
- Anyone becoming aware of a change to the product configuration (to the actual product or its application) should inform Network Rail Acceptance Services in writing.
- All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.
- Products shall be maintained in accordance with the manufacturer's recommendations.
- Products shall be repaired / serviced by the manufacturer or its nominated agent only.
- Where the product is to be used in areas where Network Rail is not the Duty Holder (e.g. Leased Stations), the sponsor shall obtain formal consent from the Duty Holder for the locality where the equipment is to be installed in compliance with Railway Group Standard GE/RT8270 to deploy that equipment on, or about, or as part of that party's on or about their infrastructure. The decision of that party is absolute, and cannot be overridden except through the escalation processes established in the ROGS regulations.

NETWORK RAIL ACTIONS

SUPPLY CHAIN ARRANGEMENTS

- If a product is accepted for use, Network Rail (or it's formally appointed agents) may wish



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to purchase the product direct from the manufacturer or alternatively contract an installer or other contractor who will purchase the product from the manufacturer.

- Network Rail's approach to sourcing products following acceptance will vary across different product categories. However it is not necessary (and it is not a requirement of Network Rail) for a manufacturer to enter into an exclusive supply arrangement with a reseller or other supplier in order to supply your products/equipment to Network Rail.

PRODUCT CONFIGURATION

System or Complete Assembly

Part No.	Description	PADS No.
372B/A750/19	2.5MW 660/750V Transformer Rectifier Unit	055/162050

ASSESSED DOCUMENTATION

Reference	Title	Date and Applies to Cert. issue No.	
RA2412_O&M	Operation, Instruction & Maintenance Manual – Rectifier Units for Thameslink Ludgate Cellars via Network Rail.	08/04/2009	1
----	Instruction Manual for Operation, Maintenance, Installation & Commissioning – Rectifier Transformer for Thameslink Programme – Electrification & Plant Ludgate Cellars.	Undated	1
----	Transformers & Rectifiers Ltd – In Line EMC Tests on 4MW, 33kv AC/1500VDC Transformer Rectifier Unit (T&R Contract No. RA2298)	Undated	1
N244 FD 5498602 2.0	Thameslink Programme – N244 Procurement Specification 10 – Transformers & Rectifiers.	Undated	1
----	Clause-by-clause analysis of NR/SP/ELP/21019, Issue 2, December 2005 with respect to Transformer Rectifier Units.	May 2009	1
----	Test Certificate For RA2412/1 – 2.5MW, 660/750V DC Traction Rectifier.	05/02/2009	1
	Transformers & Rectifiers Ltd – Transformer Temperature – Rise Test Report.	30/03/2009	1

CERTIFICATE HISTORY

Issue Number	Date	Issue History
1	20/07/2009	First accepted for use.



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DISTRIBUTION

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