



Acceptance National Specialist Team
 Network Rail,
 Floor 4, 40 Melton Street
 London,
 NW1 2EE

Acceptance Advice Note

From: Steve Rennolds

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Date: 18 December 2007

THE ADVICE NOTE IS ONLY APPLICABLE TO THE ACCOMPANYING CERTIFICATE OF ACCEPTANCE. THE CERTIFICATE MUST BE READ IN ORDER TO UNDERSTAND ANY RESTRICTIONS OR CONDITIONS THAT APPLY TO USE OF THE PRODUCT.

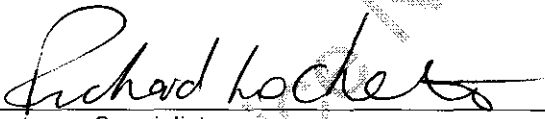
This advice note provides appropriate background information and any specific action that may be required in accordance with the **attached certificate**. It will enable you to meet your obligations in meeting the requirements of the Network Rail procedure NR/CS/ACC/029 (formerly RT/LS/P/029).

Certificate Ref.	Issue	Product
PA05/03510	1	650V to 110V Power Transformer (For Signalling Power Supply applications)

Manufacturer
FT Transformers Ltd, 349 Haslucks Green Rd, Shirley, Solihull, B90 2NQ

Background/Reason for Issue
This item has been manufactured by FT Transformers on behalf of Westinghouse Rail Systems Ltd (WRSL) to a Westinghouse Specification.

Network Rail action
THE CERTIFICATE MUST BE READ IN ORDER TO UNDERSTAND ANY RESTRICTIONS OR CONDITIONS THAT APPLY TO USE OF THE PRODUCT.


 Acceptance Specialist



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Network Rail
Floor 4, 40 Melton Street
London. NW1 2EE

Certificate of Acceptance

Certificate No: PA05/03510

Issue: 1

Date: 18 Dec 07

Effective date: 18 Dec 2007

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Product: Transformer 650V (For Signalling Power Supply applications)

Manufacturer: FT Transformers Ltd
349 Haslucks Green Rd
Shirley
Solihull
B90 2NQ

The product above is accepted for use on Network Rail infrastructure within the defined scope of acceptance and any specific conditions in the certificate. Failure to abide by the certificate requirements may lead to acceptance by Network Rail becoming invalid.


Scope of Acceptance:

The transformer has been accepted for use as a Functional Supply Point, Power Transformer. The nominal input voltage is 650V a.c. and provides four secondary windings, each with a nominal output voltage of 110V a.c. and a power rating of 350VA.

Specific Conditions:

Refer to the pages which follow for the product configuration and detailed conditions of use which apply to the manufacturer/ supplier, the user, project, maintenance, and operations.

Authorised by:


John Fissler BSc (Hons), CEng, FIET, FIRSE
Head of Signal Engineering


Kevin Lydford
Head of Electrification & Plant, Engineering



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SPECIFIC CONDITIONS

MANUFACTURER

FT Transformers shall:

- ensure that the latest relevant standards/ drawings are available and worked to, and that the product is compliant.
- notify the Network Rail Acceptance Specialist identified in the Acceptance Advice Note:
 - 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.
- comply with The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2005 and The Waste Electrical and Electronic Equipment Regulations 2006 known as the WEEE Regulations.

USER CLAUSES

GENERAL

- Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance must be sought from the Acceptance Specialist identified in the Acceptance Advice Note.
- Each party in the Network Rail supply chain procuring and receiving the product is responsible for ensuring that it 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 the Acceptance Specialist identified in the Acceptance Advice Note.
- Anyone becoming aware of a change to the product configuration (to the actual product or its application); and a variation to or addition of manufacturing locations or processes, should inform the Acceptance Specialist 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.
- Dispose of the product at the end of life in a responsible manner as per the guidelines of the WEEE regulations, including:
 - designated collection facilities supported by the distributor take-back scheme;
 - through a retailer in-store take-back scheme;
 - specific areas at civic amenity collection sites across the UK or at other specific collection facilities.



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COMMENTARY

This item has been manufactured by FT Transformers on behalf of Westinghouse (WRSL) to a Westinghouse Specification.

PRODUCT CONFIGURATION

System or Complete Assembly

Westinghouse Part No.	Description	PADS No.
C51400/2 (compliant to Westinghouse specification X1303-0-EN-ES-02 Issue 3)	Transformer 650V (For Signalling Power Supply applications) 0-25-650-700V to 0-10-110-140V - Single primary winding to 4 secondary windings rated at 350VA each)	086/045851

ASSESSED DOCUMENTATION

Reference	Title	Date and Applies to Cert. issue No.	
NR-AM-002-AccMemNF-Forrest TeslaTX	Ron Checkman product assessment/recommendation document	17 th Dec 2007	1
C51209/2	Transformer failure rate calculations	----	1
X1303-0-EN-TN00008, issue 1	Transformer C51209/# & T/J C51210/# Technical Note, Hazard/Maintenance Assessment	02/05/2007	1
X1303-0-EN-RP00007, issue 1	Independent Safety Assessment of 400V & 650V Transformer & Transformer-rectifiers for use on operational Signalling Systems	20/10/2006	1
X1303-0-EN-ES02, issue 3	Equipment Specification for: 650V Signalling & Points Transformer Unit	27/06/2007	1
Westinghouse Report Appendix D	FT Test Results Type Testing Results Transformer Unit (650V) Type Testing Results Transformer-rectifier Unit (650V)	10/02/2006	1
X1303-0-EN-MN00005, Issue 3	Multiple Secondary Output Transformer C51209/# - Application Manual	July 2007	1
NR/L2/SIG/30007	Westinghouse, NR/L2/SIG/30007 compliance assessment	Oct 2007	1
X1303-0-EN-RP00013	New Generation Transformer & TJ Surge Test Report	Nov 2007	1
XX1380/3/7/1-216	Compliance (NR/L2/SIG/3007) letter from P. Duggan	22/11/07	1



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CERTIFICATE HISTORY

This certificate is the first issue.

Issue Number	Date	Issue History
1	18 Dec 2007	First accepted for use.



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DISTRIBUTION

Manufacturer

FT Transformers Ltd
349 Haslucks Green Rd
Shirley
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B90 2NQ
sales@forrest-transformers.co.uk

Sponsor

N/A

Agent

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