

International Accreditation Service  
**CERTIFICATE OF ACCREDITATION**

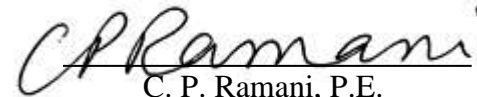
*This is to signify that*  
**FEDERAL POWER TRANSFORMERS, LLC**  
P.O. BOX 111209, ICAD-1  
ABU DHABI  
UNITED ARAB EMIRATES

Testing Laboratory TL-623

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing June 9, 2014, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President, Chief Technical Officer



C. P. Ramani, P.E.  
President



*(see attached scope of accreditation for fields of calibration and accredited calibration methods)*

Print Date: 06/25/2014

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.  
See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

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# SCOPE OF ACCREDITATION

Federal Power Transformers, LLC TL-623

Federal Power Transformers  
P.O. Box 111209, ICAD-1  
Abu Dhabi  
United Arab Emirates

Vijay Krishna  
Quality Manager  
+971 255 01910

FIELDS OF TESTING	ACCREDITED TEST METHODS
<b>Electrical Testing (Routine/Type/Special Testing)</b>	
Measurement of Winding Resistance	IEEE C57.12.90, Clause 5 and IEC 60076 – 1, Clause 11.2.3
Measurement of Voltage Ratio and Check of Phase Displacement	IEEE C57.12.90, Clauses 6.3.2, 7 and IEC 60076 – 1, Clause 11.3
Measurement of Short – Circuit Impedance and Load Loss	IEEE C57.12.90, Clause 9 and IEC 60076 – 1, Clause 11.4
Measurement of No. – Load Loss and Current	IEEE C57.12.90, Clause 8 and IEC 60076 – 1, Clause 11.5
Separate Source Power Frequency Withstand Test	IEEE C57.12.90, Clause 10.6 and IEC 60076 – 3, Clause 10
Induced Over Voltage Withstand Test	IEEE C57.12.90, Clause 10.7 and IEC 60076 – 3, Clause 11.2
Tests on – Load Tap Changers, where appropriate	IEEE C57.12.00, Clause 8.2.1 and IEC 60076 – 1, Clause 11.7
Measurement of Insulation Resistance	IEEE C57.12.90, Clause 10.11 and IEC 60076 – 1, Clause 11.1.2.2b
Determination of Capacitance Windings – to – earth and Between Windings	IEEE C57.12.90, Clause 10.10 and IEC 60076 – 1, Clause 11.1.2.2c
Measurement of Dissipation Factor (tanδ) of the Insulation System Capacitances	IEEE C57.12.90, Clause 10.10 and IEC 60076 – 1, Clause 11.1.2.2c
Temperature – Rise Test	IEEE C57.12.90, Clause 11 and IEC 60076 – 2
Full Wave Lightning Impulse Test	IEEE C57.12.90, Clause 10.3 and IEC 60076 – 3, Clause 13.2
Determination of Sound Level for Each Method of Cooling for Which a Guaranteed Sound Level is Specified	IEEE C57.12.90, Clause 13.0 and IEC 60076 – 10
Chopped Wave Lightning Impulse Tests	IEEE C57.12.90, Clause 10.3.1.3 and IEC 60076 – 3, Clause 13.3

June 9, 2014  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 06/25/2014

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# Certificate of Registration

# Intertek

This is to certify that the quality management system of

## Federal Power Transformers LLC

Plot No. 87 - A1, Sector N-41, ICAD 1, Mussafah,  
P O Box 111209  
Abu Dhabi  
United Arab Emirates

has been assessed and registered by Intertek as conforming to the requirements of:

### ISO 9001:2008

The quality management system is applicable

**THE DESIGN, DEVELOPMENT, PRODUCTION, INSTALLATION AND SERVICING OF DISTRIBUTION POWER TRANSFORMERS UP TO 150 MVA, 220 KV, TAP CHANGERS, DRY CAST RESIN TRANSFORMERS, FLAME PROOF TRANSFORMERS, HV SWITCHEAR AND LV DISTRIBUTION CHAMBERS, RAIL TRACTION TRANSFORMERS, INDUSTRIAL TRANSFORMERS AND FLAME PROOF EQUIPMENT.**

**Certificate No. 18259**

**Issue Date: 13<sup>th</sup> September 2013**

**Original Issue Date: 31<sup>st</sup> October 2007**

**Expiry Date: 31<sup>st</sup> October 2016**



*Authorised Signature: Calin Moldovean – President, Business Assurance  
Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF  
Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.*



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In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organisation maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at [certificate.validation@intertek.com](mailto:certificate.validation@intertek.com) or by scanning the code to the right with a smartphone.



The certificate remains the property of Intertek, to whom it must be returned upon request.

CT-ISO 9001:2008-UKAS-EN-A4-P-20.jun.13



