

# Accreditation Certificate

## CG Power Systems Ireland

Dublin Road, Cavan, Ireland

Testing Laboratory

Registration number: 269T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2<sup>nd</sup> Edition "General Requirements for the Competence of Testing and Calibration Laboratories" *(This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)*

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Date of award of accreditation: 07:09:2010

Date of last renewal of accreditation: 07:09:2010

Expiry date of this certificate of accreditation: 07:09:2015

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This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: 

Dr Adrienne Duff

Chairperson: 

Mr Tom O'Neill

Issued on 07 September 2010

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:  
Category A

## CG POWER SYSTEMS IRELAND

### Electrical Testing Laboratory

**Initial Registration Date :** 7-September-2010  
**Postal Address:** Dublin Road  
**(Address of other locations as they apply)** Cavan  
Ireland  
**Telephone:** +353 (49) 4331588  
**Fax:** +353 (49) 4332053  
**E-mail:** jeby.george@cgglobal.com  
**Contact Name:** Jeby George  
**Facilities:** Normally not available for Public testing

# Schedule of Accreditation



Permanent Laboratory:  
 Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

## Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- (a) portable test equipment
  - (b) a site laboratory
  - (c) a mobile laboratory or
  - (d) equipment from a mobile or site laboratory

## Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

## Glossary of Terms

### Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

# Scope of Accreditation



## CG Power Systems Ireland Electrical Testing Laboratory

Permanent Laboratory:  
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
365 Miscellaneous Electrical Tests .02 High voltage operating equipment	Separate source voltage withstand test (High Voltage) Range - 200 V to 125 kV	IEC 60076-3 (Par:11) Second edition 2000 - 03
	Separate source voltage withstand test (Low Voltage) Range - 200 V to 125 kV	IEC 60076-3 (Par:11) Second edition 2000 - 03
	Measurement of winding Resistance. Range - 0.1 mOhm to 20 kOhm	IEC 60076-1 (Par:10.2) Edition 2.1 2000 - 04
	Measurement of Voltage ratio and check of phase displacement Range Ratio 5 to 500	IEC 60076-1 (Par:10.3) Edition 2.1 2000 - 04
	Measurement of Short circuit impedance and load loss:- Range - 10 W - 45 kW (Load Loss) Range - 10 v - 2150 V (Short circuit Impedance)	IEC 60076-1 (Par:10.4) Edition 2.1 2000 - 04
Measurement of No load loss and current Range - 10 W - 45 kW	IEC 60076-1 (Par:10.5) Edition 2.1 2000 - 04	

# Scope of Accreditation



## CG Power Systems Ireland Electrical Testing Laboratory

Permanent Laboratory:  
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
365 Miscellaneous Electrical tests		
.02 High Voltage operating equipment	Induced AC voltage test Range - 100 V - 2000 V	IEC 60076-3 (Par:12) Second edition 2000 - 03
	Lightning Impulse test Range - 10 kV - 275 kV	IEC 60076-3 (Par:13) Second edition 2000 - 03 IEC 60076-4 First edition 2002 - 2006
	Determination of sound level Range - 20 dB(A) - 100 dB(A)	IEC 60076-10 First edition 2005 - 10
	Temperature rise test Range - 10 W - 45 kW	IEC 60076-2 Edition 3 2011 - 02
	Partial Discharge Range - 5 pC - 1 nC	IEC 60270 Edition 3 2000 - 12