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IECRE OPERATIONAL DOCUMENT

**IEC System for Certification to Standards relating to Equipment for use in
Renewable Energy applications (IECRE System)**

ME Certification Scheme: Test Report Requirements



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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ME Certification Scheme: Test Report Requirements

CONTENTS

CONTENTS	2
1 Scope of this document.....	3
2 Normative references	3
3 Informative references	3
4 Scope of Test Report	3
5 Articulation with other Scheme deliverables	4
6 Content of Test Report.....	4
7 Issuing Party.....	4

1 Scope of this document

This Operational Document (OD) addresses the issuance of a Test Report (TR) within the framework of IECRE ME Certification Scheme. The following topics are addressed in the present OD:

- Normative References
- Informative References
- Scope of Test Report
- Articulation with Scheme deliverables
- Content of Test Report
- Issuing party

2 Normative references

The Normative References are provided below. Standards against which TRs can be issued (in particular the series IEC 62600 Marine energy - Wave, tidal and other water current converters) are listed on the IECRE website (www.iecre.org). The most current edition should be used in all cases.

- IECRE01 – Basic Rules
- IECRE02 – Rules of Procedure
- IECRE03 – ME-OMC Rules of Procedure (To Be Published)
- IEC CA 01 – Basic Rules for IEC Conformity Assessment Systems

3 Informative references

The following IEC standards, based on the wind sector, may be used by the ME-OMC to issue Test Reports but will require adaptation before implementation.

- IEC 61400-13:2015 Wind turbines - Part 13: Measurement of mechanical loads, to be read in conjunction with IECRE OD-551-13 (Edition 1.0 2016-02-26) Measurement of mechanical loads of electricity producing wind turbines
- IEC 61400-23:2014 Wind turbines - Part 23: Full-scale structural testing of rotor blades

4 Scope of Test Report

The TR is one of the ME Scheme Deliverables, issued to document a specific test conducted in accordance with one or several international standards. The objective of the TR is to document the measurement conditions, instrumentation, calibrations, procedures, results, analyses, etc. of the considered test.

An indicative list of activities concerned by the issuance of a TR is provided below:

- Power Performance assessment according to IEC/TS 62600-100, IEC/TS 62600-102 and IEC/TS 62600-200
- Loads Measurements

Note: While no dedicated standards are available in IEC 62600 series for mechanical load assessment so far, IEC 61400-13 and IECRE OD-551-13 may serve as guidance for the test.

- Safety and Function Tests
- Tests identified under the Technology Qualification and Certification Plan requiring a TR
- Any other test identified under other specific IEC TS not referred to above

5 Articulation with other Scheme deliverables

TR can be issued in a standalone purpose, but are also included into other Scheme deliverables such as Type Certificate or Project Certificate.

Note: Examples of certification modules from other Scheme deliverables requiring TR:

- *Type certification: “Type testing” module requiring a power performance measurement TR and a load measurements TR*
- *Project certification: “Project characteristics measurements” module requiring a power performance measurement TR*

The TR can be evaluated by an RECB as a part of a certificate issuance. A satisfactory evaluation is concluded with a Conformity Statement and an Evaluation Report issued by the RECB.

6 Content of Test Report

The first section is a cover page (applicable to all TR and common for all Sectors) that contains the general information, such as:

- the name and address of the Applicant,
- report reference number,
- standard used,
- TR number,
- product name and product rating,
- trademark,
- other relevant information.

Pages that follow the cover page contain specific information related to:

- testing procedure and testing locations,
- list of attachments,
- product under testing,
- general tests and samples information,
- other relevant information.

A Test Report template will be provided in an OD to be developed and shall be used by the issuing party.

7 Issuing Party

The TR is issued by the party conducting the test. This issuing party can be:

- An RETL. This test can be conducted:
 - a) in its own premises
 - b) at a location determined by the applicant,

The applicant may issue the results of testing, provided an RECB is engaged from the beginning of the testing process¹.

¹ This alternative option is provided for technology developers who are unable to test at an RETL or are unable to have an RETL come to a facility of their choosing for the tests. This option will not result in the issuance of a Test Report.

**INTERNATIONAL
ELECTROTECHNICAL
COMMISSION**

3, rue de Varembé
PO Box 131
CH-1211 Geneva 20
Switzerland

Tel: + 41 22 919 02 11
info@iec.ch
www.iec.ch

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IECRE Secretariat c/o IEC
3, rue de Varembé
PO Box 131
CH-1211 Geneva 20
Switzerland

Tel: + 41 22 919 02 11
secretariat@iecre.org
www.iecre.org