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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: Conformity Statement Requirements

IECRE OD 310:2022-07(en)

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The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

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Electropedia - www.electropedia.org
The world's leading online dictionary on electrotechnology, containing more than 22 000 terminological entries in English and French, with equivalent terms in 16 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary
67 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

OD-310 ME Certification Scheme: Conformity Statement Requirements

Table of Contents

Scope of this document

This is a high-level document as it applies to many different Conformity Statements. For example: Technology Qualification Conformity Statements, Design Basis Conformity Statements; Design Assessment Conformity Statements; Testing Conformity Statements; Type Testing Conformity Statements; and Manufacturing Conformity Statements.

Normative references

The Normative References are provided below. Standards against which CSs 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.

- IEC CA 01 – Basic Rules for IEC Conformity Assessment Systems
- IECRE 01-S – IECRE Supplement to IEC CA 01
- IECRE 02 – IECRE Rules of Procedure
- IECRE 02 – ME SUP – Supplement for the Marine Energy Sector to the IECRE 02

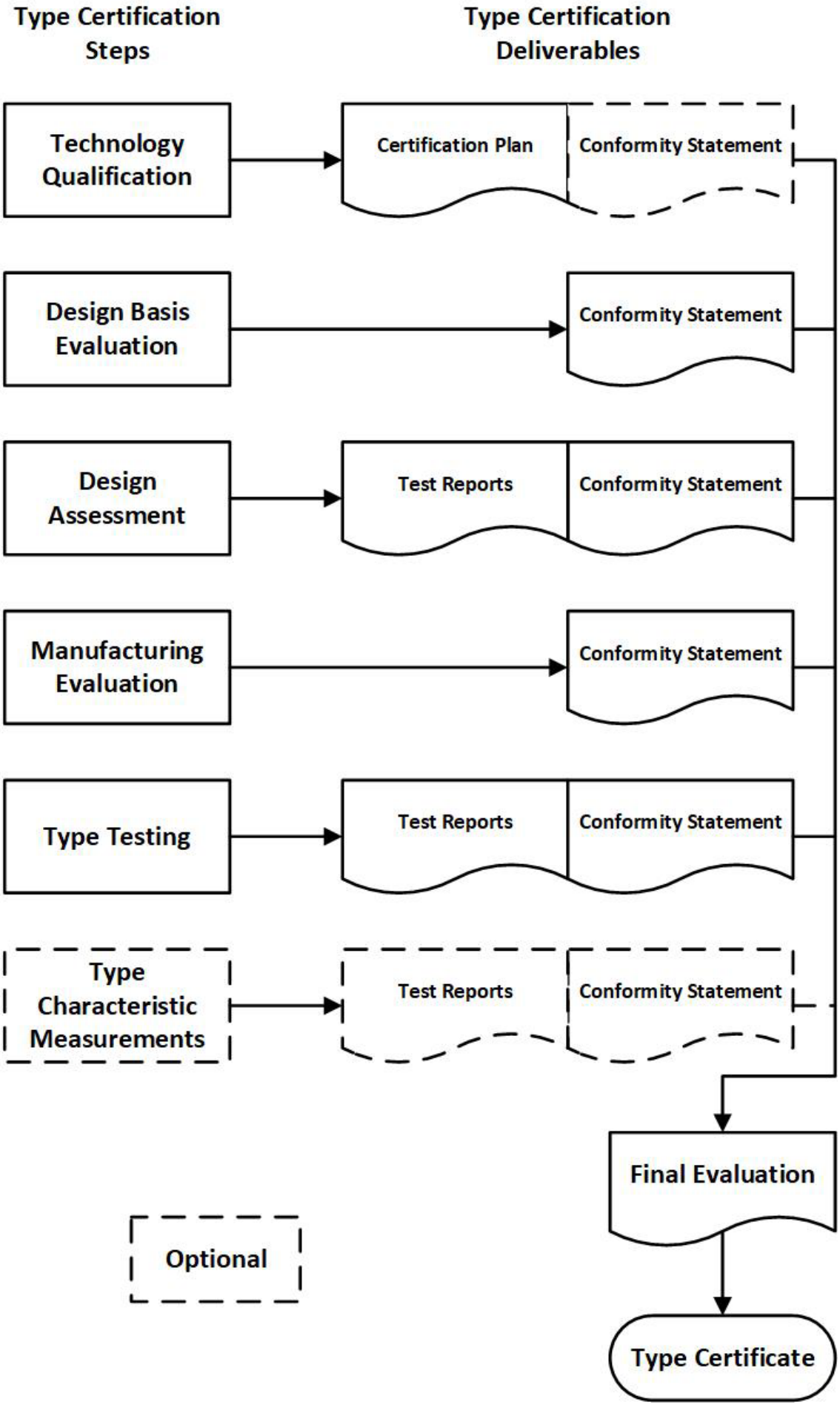
Terms and Definitions

Terms and Definitions unique to this document

NONE

Conformity Statement within overall certification

Type certification consists of several modules. Each module has a corresponding Conformity Statement. An example of the process for a Type Certificate is shown in the diagram below.


Type Certification Steps
Type Certification Deliverables
Technology Qualification
Certification Plan
Conformity Statement
Design Basis Evaluation
Conformity Statement
Design Assessment
Test Reports
Conformity Statement
Manufacturing Evaluation
Conformity Statement
Type Testing
Test Reports
Conformity Statement
Type Characteristic Measurements
Test Reports
Conformity Statement
Final Evaluation
Optional
Type Certificate

Scope of Conformity Statement

The Conformity Statement shall outline clearly in the scope statement what work was carried out. In addition, the Conformity Statement shall identify which organization carried out both the assessment and the work being assessed.

Application of standards

The basis for the evaluation outlined in the Conformity Statement shall be the technical requirements outlined in the following:

- The approved standards as shown on the IECRE website (for example IEC/TS 62600-201, IEC/TS 62600-101, IEC/TS 62600-2, 62600-10, etc.);
- Any additional standards as listed in the basis of design and agreed with the RECB;
- Where applicable any additional standards, which are listed in the Technology Qualification plan (also referred to as a Process Management plan) as approved by the RECB;
- Any additional assumptions and requirements as specified in the basis of design or the Technology Qualification plan (refer to OD TBD); and
- Quality requirements as outlined in the basis of design

The evaluation should verify that all the technical requirements have been met. Any non-conformities should be recorded in the conformity assessment report.

Evidence basis for Conformity Statement

The Conformity Statement shall list the conformity assessment report as the evidence basis for issuing the statement. The RECB shall require that the documentation clearly refers to the design basis and identifies the basis for the design. With regard to testing the RECB shall require that measurements and test reports clearly identify the component(s), the test standards or procedures, as well as the conditions for which the tests have been carried out.

The evidence used to assess conformity shall be listed in the conformity assessment report. For example (but not limited to the following):

- codes, standards and references;
- design loads and relevant external conditions;
- where applicable the Technology Qualification plan;
- drawings and design calculations;
- static systems and boundary conditions;
- influence of adjacent structures and components;
- materials and permissible stresses.
- manufacturing specifications;
- work instructions, purchase specifications;
- quality control procedures; and
- requirements for workshop tests.

The conformity assessment report will be an RECB deliverable but this will NOT be in the public domain (private between the RECB and the OEM).

Limitations of Conformity Statement

The conformity assessment statement shall outline any exclusions or limitations. For example, operating conditions for which the conformity assessment is valid.

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