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Wind turbines -- Conformity testing and certification

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to IEC 61400-22:2010 "Wind Generator Section 22. Qualified Test and Certification".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 2900.53-2001 Electrical terminology wind turbine (idt IEC 60050-415:1999);

---GB/T 17646-2017 Small wind turbine (IEC 61400-2:2013, IDT);

---GB/T 18346-2001 General requirements for the capabilities of various inspection bodies

(idt ISO /IEC 17020.1998);

---GB/T 18451.1-2012 Wind turbine design requirements (IEC 61400-1.2005, IDT);

---GB/T 18451.2-2012 Wind turbine power characteristics test (IEC 61400-12-1.2005, IDT);

---GB/T 20320-2013 Wind power generator power quality measurement and evaluation method (IEC 61400-21.2008, IDT);

---GB/T 22516-2015 Wind turbine noise measurement method (IEC 61400-11.2012, IDT);

---GB/T 25384-2010 Full-scale structural test of wind turbine blades for wind turbines (IEC 61400-23.2001,

MOD);

---GB/T 27021-2007 Requirements for the conformity assessment management system audit certification body (ISO /IEC 17021.2006,

IDT);

---GB/T 27025-2008 General requirements for testing and calibration laboratory capabilities (ISO /IEC 17025.2005, IDT);

---GB/T 27065-2004 General requirements for product certification bodies (ISO /IEC Guide 65.1996, IDT)

This standard has made the following editorial changes.

--- Modified the standard name.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Wind Machinery Standardization Technical Committee (SAC/TC50).

This standard was drafted. Beijing Jianheng Certification Center Co., Ltd., China Agricultural Mechanization Science Research Institute Hohhot Branch, Guohuaneng

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Introduction

This standard specifies the rules for testing and certification of wind turbines that meet the standards and technical requirements of wind turbines and wind farms.

and procedure. The purpose is to promote mutual recognition of participants in the test results and participants in the certificate to obtain national level and compliance with wind power.

Certification of the IEC 61400 series of standards and technical requirements for the motor unit.

The certification procedure of this standard forms a model for a wind turbine, major component models and one or more at a specific site.

Complete third-party compliance assessment of wind turbines.

In addition to design verification and testing, this standard also examines supplier quality systems and quality plans, reviews sample tests, and suppliers

Identification and evaluation of the quality system's qualifications and daily supervision. This standard is beneficial to allow certification applicants to use fewer steps than other standards.

Obtain a certificate or national approval.

Wind turbine combination test and certification

1 Scope

This standard defines the rules and procedures for the wind turbine certification system, including type certification and installation of wind power on land or at sea.

Electrical project certification. The certification system has established rules for the qualification assessment procedures and management of wind turbines and wind farms.

Relevant standards and related technical requirements relate to wind turbine safety, reliability, characteristics, testing and compatibility with the grid.

This standard provides.

- Definition of the elements of the wind turbine certification process;
- Procedures for the conformity assessment of the wind turbine certification system;
- Procedures for qualified supervision;
- The qualification assessment requires the applicant to submit the document;
- Requirements for certification, inspection agencies and testing laboratories.

These rules and procedures do not limit the size and type of wind turbines. Small wind turbines also need to apply specific rules and

program. Some authentication elements are mandatory, and other special elements are optional. For type certification, the procedures described in this standard involve conformance testing.

Test, design, manufacture, and transportation, hoisting, installation, and maintenance programs. Certification procedures include load and safety assessment, testing, characterization, and

Manufacturing supervision. For project certification, the procedures described in this standard refer to whether the specific wind turbine and support structure/basic design in the project

Appropriate, as well as assessment of transportation, installation, commissioning, operation and maintenance. The certification process is evaluated against all modules in the document, such as site strips

, supervision of the design, manufacture, transportation, installation and operation of specific site components.

The purpose of this standard is to provide a common basis for wind turbine and wind power project certification, including actuators (certification machines)

Mutual recognition of the accreditation basis and certification of the structure, inspection organization and testing laboratory.

This standard should be used in conjunction with the IEC /ISO standards mentioned in Chapter 2 and the corresponding national standards.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Note. Any early or revoked regulatory documents used in conjunction with this standard are described in the Certification Agreement (see 6.2), Declaration of Conformity and Certificate.

GB/T 19001-2008 Quality Management System Requirements (ISO 9001:2008, IDT)

GB/T 31517-2015 Design requirements for offshore wind turbines (IEC 61400-3:2009, IDT)

IEC 60034 (all parts) motors (Rotating electrical machines)