

P1834

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 08-Oct-2015

PAR Approval Date: 05-Dec-2015

PAR Expiration Date: 31-Dec-2019

Status: Modification to a Previously Approved PAR

Root PAR: P1834 **Approved on:** 11-Jun-2015

1.1 Project Number: P1834

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Technology Supervision Code for Wind Turbine Rotor Systems

Changes in title: ~~Standard for~~ Technology Supervision Code for Wind Turbine ~~Impeller~~Rotor Systems

3.1 Working Group: Wind Turbine production and testing of wind turbine rotor systems working group (BOG/CAG/Wind Turbine)

Contact Information for Working Group Chair

Name: Jiangqing Jiao

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE-SA Board of Governors/Corporate Advisory Group (BOG/CAG)

Contact Information for Sponsor Chair

Name: Philip Wennblom

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 10/2016

4.3 Projected Completion Date for Submittal to RevCom: 05/2017

5.1 Approximate number of entities expected to be actively involved in the development of this project: 5

5.2 Scope: This standard covers technical requirements and practical guidelines for the supervision and test methods of wind turbine rotor systems, which includes rotor blade, hub and pitch system.

Changes in scope: This standard covers technical requirements and practical guidelines for the ~~production~~supervision procedures and ~~quality~~ test methods of wind turbine ~~impeller~~rotor systems, which includes rotor blade, hub and pitch system.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: Currently, several countries in the world have accumulated mature experience in wind turbine construction and have written standards and specifications. However, those standards and specifications do not address supervision of the wind turbine technology, notably after wind turbines are initially put into use. As a significant part of wind turbine, the rotor system has a critical impact on the safe and economical operation of wind turbine. Consequently, specifying a supervision standard for the rotor system of wind turbine is urgent. Further, such a standard is also helpful for monitoring the operation status of wind turbine.

Changes in purpose: Currently, several countries in the world have accumulated mature experience in wind turbine construction and have written ~~relatively perfect~~ standards and specifications. However, those standards and specifications do not address supervision of the wind turbine technology, notably after wind turbines are initially put into use. ~~The~~As ~~impeller~~ is a significant part of the wind turbine, ~~system~~the ~~rotor~~ system has a critical impact on the safe and economical operation of the wind turbine ~~system~~. Consequently, specifying a supervision standard for the ~~impeller~~rotor ~~in~~system ~~of~~ wind turbine ~~system~~ is urgent. Further, such a standard is also helpful for monitoring the operation status of ~~the~~ wind turbine~~system~~.

5.5 Need for the Project: The rotor system is an important component of wind turbine, which plays an important role in absorption and conversion of wind energy. With the quick development of the wind power industry, some accidents such as blade abscission, rotor overspeed may occur. In order to meet the need of supervising the rotor system, it is urgent to develop a standard to format the technology supervision procedures and test methods.

5.6 Stakeholders for the Standard: The Stakeholders are:

- Manufacturers
- Power generation companies
- Research institutes
- Other organizations involved in wind turbine rotor system.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): Following update has been made. Under title, scope, and purpose clauses, word "impeller" system has been replaced with "rotor" as "impeller systems" is not typically related to "rotor systems" of wind turbine. Also the words "terrible" and "frequently" has been removed from 5.5 Need for the Project clause as they are both subjective terms.