

P2030.3

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Type of Project: New IEEE Standard

PAR Request Date: 10-Dec-2010

PAR Approval Date: 02-Feb-2011

PAR Expiration Date: 31-Dec-2015

Status: PAR for a New IEEE Standard

1.1 Project Number: P2030.3

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Test Procedures for Electric Energy Storage Equipment and Systems for Electric Power Systems Applications

3.1 Working Group: Test Procedures for Equipment Interconnecting Electric Energy Storage with Electric Power Systems working group (SASB/SCC21/WG-Energy-Storage)

Contact Information for Working Group Chair

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None

3.2 Sponsoring Society and Committee: IEEE-SASB Coordinating Committees/SCC21 - Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage (SASB/SCC21)

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4.1 Type of Ballot: Entity

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2011

4.3 Projected Completion Date for Submittal to RevCom: 10/2012

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

5.2 Scope: This standard establishes test procedures for electric energy storage equipment and systems for electric power systems (EPS) applications.

It is recognized that an electric energy storage equipment or systems can be a single device providing all required functions or an assembly of components, each having limited functions. Components having limited functions shall be tested for those functions in accordance with this standard. Conformance may be established through combination of type, production, and commissioning tests. Additionally, requirements on installation evaluation and periodic tests are included in this standard.

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

5.4 Purpose: Storage equipment and systems that connect to an electric power system (EPS) need to meet the requirements specified in related IEEE standards. Standardized test procedures are necessary to establish and verify compliance with those requirements. These test procedures need to provide both repeatable results, at independent test locations, and have flexibility to accommodate the variety of storage technologies and applications.

5.5 Need for the Project: Traditionally, utility power systems were not designed to accommodate electric storage. In recent years, electric storage has drawn more and more attention as the development of renewable energy distributed resources interconnected with power systems have been deployed. Standards on interconnecting electric energy storage with power systems are currently in sponsor ballot process. There is a need to establish a standard providing requirement on test procedures for verifying conformance of storage equipment and systems to these standards.

5.6 Stakeholders for the Standard: The universality of this standard relates not only to the technical aspects, but also to the adoption of this standard as being pertinent across a number of industries and institutions, e.g., hardware manufacturers, utilities, energy service companies, and other interested entities.

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): Criteria and requirements in the following list of standards involve energy storage that operates as distributed resources (DR).

- 1) IEEE 1547.1: Standard for Conformance Tests Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems;
- 2) CAN/CSA-C22.2 NO. 257-06: Interconnecting Inverter-based Micro-distributed Resources to Distribution Systems;
- 3) CAN/CSA-C22.3 NO.9: Interconnection of distributed resources and electricity supply system.
- 4) IEEE Std 446-1995: IEEE Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications.