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23 September 2005

Jose A Marrero  
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Re: P1679 - Recommended Practice for the Characterization and Evaluation of Emerging Battery Technologies in Stationary Applications

Dear Jose:

I am pleased to inform you that on 22 September 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2009. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1679.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at [j.haasz@ieee.org](mailto:j.haasz@ieee.org) no later than 21 December 2005.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at [j.haasz@ieee.org](mailto:j.haasz@ieee.org).

Sincerely,

Jodi Haasz  
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# PAR FORM

**PAR Status:** New PAR

**PAR Approval Date:** 2005-09-22

**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** P1679

**2. Sponsor Date of Request:** 2005-06-28

**3. Type of Document:**

**4. Title of Document:**

**Draft:** Recommended Practice for the Characterization and Evaluation of Emerging Battery Technologies in Stationary Applications

**5. Life Cycle:** Full-Use

**6. Type of Project:**

**6a. Is this an update to an existing PAR?** No

**6b. The Project is a:** New Standard

**7. Working Group Information:**

**Name of Working Group:** Emerging Technology Characterization WG

**Approximate Number of Expected Working Group Members:**15

**8. Contact information for Working Group Chair:**

**Name of Working Group Chair:** James A McDowall

**Telephone:** 203-239-4718x542 **FAX:** 203-234-7598

**Email:** Jim.McDowall@saftbatteries.com

**9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:**

**Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:**

**Telephone:** **FAX:**

**Email:**

**10. Contact information for Sponsoring Society or Standards Coordinating Committee:**

**Name of Sponsoring Society and Committee:** IEEE Power Engineering Society Stationary Batteries Committee

**Name of Sponsoring Committee Chair:** Samuel Norman

**Telephone:** +1 919 563 6610 **FAX:** +1 919 563 6620

**Email:** snorman@ieee.org

**Name of Liaison Rep. (if different from the Sponsor Chair):** Jose A Marrero

**Telephone:** 912-537-5887 **FAX:** 912-367-0653

**Email:** jamarrer@southernco.com

**Name of Co-Sponsoring Society and Committee:****Name of Co-Sponsoring Committee Chair:****Telephone: FAX:****Email:****Name of Liaison Rep. (if different from the Sponsor Chair):****Telephone: FAX:****Email:****11. The Type of ballot is:** Individual Sponsor Ballot**Expected Date of Submission for Initial Sponsor Ballot:** December 2006**12. Projected Completion Date for Submittal to RevCom:** June 2007**Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:****13. Scope of Proposed Project:**

This document covers recommended information for an objective evaluation of an emerging battery technology by a potential user for any stationary application. For the purposes of this document, emerging battery technologies are defined as those technologies recently, or soon to be, made available for sale under customary commercial terms, e.g., defined scope-of-supply, warranted performance, etc. The document provides a common basis for the expression of performance characteristics and the treatment of life-testing data. A standard approach for analysis of failure modes is also provided, including assessment of safety attributes. The intent of this document is to ensure that characterization information, including test conditions and limits of applicability, is sufficiently complete to allow valid comparisons to be made. The document does not specify test methods, minimum requirements, or pass/fail criteria. While this document primarily targets the characterization of emerging battery technologies, the recommendations are broadly applicable to other energy storage technologies. This recommended practice does not describe individual battery technologies, nor does it provide guidance on their suitability for a particular application. This document does not cover sizing, installation, maintenance and testing techniques, except insofar as they may influence the evaluation of a technology for its intended application.

**Is the completion of this document contingent upon the completion of another document?**

No

**14. Purpose of Proposed Project:**

This recommended practice describes a format for the characterization of emerging battery technologies in terms of performance, service life and safety attributes. This format will provide a framework for developers to describe their products. The resulting information will assist users in evaluating the possible application of emerging battery technologies.

**15. Reason for the Proposed Project:**

Several new battery technologies have been developed recently and are being offered for use in stationary applications. Developers are frequently using conventions for published data that

differ from established norms in the stationary battery field. In some cases only partial life testing data have been submitted and important information on failure modes is lacking. The proposed recommended practice would help to clarify this situation and aid users in evaluating these technologies for their needs. The main stakeholders are technology developers, utilities and industrial facilities. Others include telecommunications companies, the military, and operators of large office buildings.

#### **16. Intellectual Property:**

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-06-27
- b. Is the sponsor aware of copyright permissions needed for this project?** No
- c. Is the sponsor aware of trademarks that apply to this project?** No
- d. Is the sponsor aware of possible registration activity related to this project?** No

**17. Are there other documents or projects with a similar scope?** No

#### **Similar Scope Project Information:**

**18. Is there potential for this document (in part or in whole) to be adopted by another national, regional or international organization?** Do not know at this time

**If yes, the following questions must be answered:**

**Organization Name?**

**Technical**

**Committee**

**International**

**Contact**

**Information?**

**19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety?** Yes

**If yes, please explain:**

Document will recommend that all potential safety hazards, both in normal operation and resulting from system failure, be identified by the developer of an emerging technology.

#### **20. Sponsor Information**

**a. Is the scope of this project within the approved/scope/definition of the Sponsor's Charter?** Yes

**If no, please explain:**

**b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee?** Yes

#### **21. Additional Explanatory Notes: (Item Number and Explanation)**

1. We envisage this document being the parent of a series of documents covering specific groups of technologies, such as lithium-based batteries, high-temperature batteries, etc. We request that project numbers be assigned using a 'dot' sequence, e.g. P1679.1, P1679.2, etc.