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16 March 2006

Karl N Mortensen
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Re: P1250 - Guide for Identifying and Improving Voltage Quality in Power Systems

Dear Karl:

I am pleased to inform you that on 16 March 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2010. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1250.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 no later than 14 June 2006.

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.

Sincerely,

Jodi Haasz
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International Stds Programs and Governance
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PAR FORM

PAR Status: Revision PAR
PAR Approval Date: 16 March 2006
PAR Signature Page on File: Yes

1. Assigned Project Number: P1250

2. Sponsor Date of Request: 2005-07-15

3. Type of Document: Guide for

4. Title of Document:

Draft: Guide for Identifying and Improving Voltage Quality in Power Systems

5. Life Cycle: Full-Use

6. Type of Project:

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

6b. The Project is a: Revision of Std 1250-1995

7. Working Group Information:

Name of Working Group: Voltage Quality Working Group

Approximate Number of Expected Working Group Members:15

8. Contact information for Working Group Chair:

Name of Working Group Chair: Dennis Hansen

Telephone: 801-220-4816 **FAX:** 801-220-4366

Email: dennis.hansen@pacificorp.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: Russ Ehrlich

Telephone: 302-283-6097 **FAX:** 302-283-6090

Email: russ.ehrlich@ieee.org

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

Name of Sponsoring Society and Committee: IEEE Power Engineering Society Transmission and Distribution

Name of Sponsoring Committee Chair: W. Mack Grady

Telephone: 512-471-5231 **FAX:** 512-471-5532

Email: mack@ieee.org

Name of Liaison Rep. (if different from the Sponsor Chair): Karl N Mortensen

Telephone: 763-241-2365 **FAX:** 763-241-6165

Email: kmortensen@grenergy.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: October 2008

12. Projected Completion Date for Submittal to RevCom: October 2009

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 guide will assist readers in identifying and improving voltage quality in power systems, and will reference publications in this area.

More specifically, this Guide includes:

1. Voltage quality levels from benchmarking studies
2. Factors that affect power system performance
3. Mitigation measures that improve power system performance
4. References to current relevant in-depth IEEE standards and other documents

This Guide only addresses subjects in depth where no other power quality reference does so. It is a "gateway" document for power quality which points the way to other documents in this field.

Is the completion of this document contingent upon the completion of another document? No

14. Purpose of Proposed Project:

The primary purpose in writing this Guide is to assist power delivery system designers and operators in delivering power with voltage quality that is compatible with electrical end-use equipment. Another purpose is to point utility system customers toward power quality solutions that may exist in the power utilization system and equipment.

15. Reason for the Proposed Project:

While the present 1250 Guide still contains some useful information, it is out of date and in need of both re-scoping and updating. At the same time the Power Quality (PQ) Subcommittee of the PES T&D Committee now has a "roadmap" for all of its PQ standards. In this roadmap there is a need for the kind of T&D performance improvement guide described in the scope section above. The 1250 Guide already covers some of this information, but with older material. The other part of 1250 (the utilization equipment side) is now covered in other documents in greater detail. These documents will be referenced in the updated and re-scoped guide. When complete, this Guide will assist power delivery system designers and operators and utility system customers in finding better compatibility between the quality of voltage provided and the needs of electrical equipment.

16. Intellectual Property:

- a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-10-26
- 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? No

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? No

If yes, please explain:

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)

Item #4 - The title is being changed from "IEEE Guide for Service to Equipment Sensitive to Momentary Voltage Disturbances"

Item #13: The scope section of the 1995 version of the 1250 Guide addresses "momentary voltage disturbances...their potential effects on sensitive equipment, and guidance toward mitigation of these effects." It also describes "the operating environment of sensitive utilization equipment as well as information on harmonic distortion limits."

As indicated in item #13, the proposed scope will cover voltage quality in power systems, including information that has been gleaned from benchmarking studies and other IEEE work over the years since the initial 1250 publication. In addition, the scope indicates that 1250 will serve as a "gateway" document for referencing other power quality work.

Item #14: The purpose section of the 1995 version of the 1250 Guide first lays some background by discussing the incompatibilities between newer sensitive electronic equipment and disturbances on the power system. It then states as the primary purpose, "to assist in identifying potential problems and to suggest effective ways to satisfy sensitive equipment voltage requirements...The secondary purpose of this guide is to help provide designers of sensitive equipment with an understanding of the environment in which their equipment is expected to operate." There is also a discussion about the need for better understanding and cooperation between utilities and equipment designers and users.

The proposed purpose assists designers and operators with updated materials to enhance compatibility between power systems and end use equipment.