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31 March 2006

Karl N Mortensen
Great River Energy
17845 U.S. Highway 10
Elk River, MN 55330-0800
kmortensen@grenergy.com

Re: P1159 - Recommended Practice for Monitoring Electric Power Quality

Dear Karl:

I am pleased to inform you that on 30 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/1159.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 28 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
Program Manager
International Stds Programs and Governance
Standards Activities
Phone +1 732 562 6367
FAX +1 732 875 0695
Email: j.haasz@ieee.org

CC: mack@ieee.org, randy.collins@ces.clemson.edu, stds-pes-scc@ieee.org

PAR FORM

PAR Status: Revision PAR
PAR Approval Date: 30 March 2006
PAR Signature Page on File: Yes

1. Assigned Project Number: P1159

2. Sponsor Date of Request: 2005-06-09

3. Type of Document: Recommended Practice for

4. Title of Document:

Draft: Recommended Practice for Monitoring Electric Power Quality

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 1159-1995 (R2001)

7. Working Group Information:

Name of Working Group: Working Group for Monitoring Electric Power Quality

Approximate Number of Expected Working Group Members:40

8. Contact information for Working Group Chair:

Name of Working Group Chair: Randy Collins

Telephone: 864-656-5920 **FAX:**

Email: randy.collins@ces.clemson.edu

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 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: July 2006

12. Projected Completion Date for Submittal to RevCom: July 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 recommended practice encompasses the monitoring of electrical characteristics of single-phase and polyphase ac power systems. It includes consistent descriptions of conducted electromagnetic phenomena occurring on power systems. The document presents definitions of nominal conditions and deviations from these nominal conditions that may originate within the source of supply or load equipment, or from interactions between the source and the load. Also, this document presents recommendations for measurement techniques, application techniques, and interpretation of monitoring results.

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

14. Purpose of Proposed Project:

The use of equipment that causes and is susceptible to various electromagnetic phenomena has heightened the interest in power quality. An increase in operational problems has led to a variety of attempts to describe the phenomena. Because different segments of the technical community have used different terminologies to describe these electromagnetic events, this Recommended Practice will provide users with a consistent set of terms and definitions for describing these events. An understanding of how power quality events impact the power system and end-use equipment is required in order to make monitoring useful. Proper measuring techniques are required to safely obtain useful accurate data. Appropriate location of monitors, systematic studies, and interpretation of results will enhance the value of power quality monitoring. The purpose of this Recommended Practice is to assist users as well as equipment and software manufacturers and vendors by describing techniques for defining, measuring, quantifying, and interpreting electromagnetic disturbances on the power system.

15. Reason for the Proposed Project:

Electric Power Quality is of vital importance to the consumers of electrical energy. As a result, many vendors have developed metering and monitors that can assess the quality of electrical power. IEEE Std 1159-1995/R2001 identified and defined many of the parameters of power quality. Additionally, the standard recommended the procedures to be used to accurately assess the measurements of these parameters. In the decade that followed the original standard, experience has been gained that needs to be disseminated through a revision of the 1159 document. Additionally, improvements in technology have made some of the original standard obsolete and left the document with many additions that need to be made. This project will accomplish those modernization tasks. The stakeholders are the developers, manufacturers, and vendors of Power Quality monitoring equipments, the users of power quality monitoring equipment, and the developers, vendors and users of power quality monitoring software.

16. Intellectual Property:

- a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-06-01
- b. **Is the sponsor aware of copyright permissions needed for this project?** Yes
Please see the explanation in Item #21.
- 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? 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 #13 - The 1995 document "scope" was very brief and not very descriptive. The "introduction and scope" statement" in the 1995 document capture the real spirit of the 1995 document. For the proposed revision, we are maintaining the same intent, but have revised editorially to make it clearer.

Item #16b - We do not anticipate copyright issues with this project. Considerable effort has been made in trying to coordinate the power quality standards (including 1159, 1159.1 and 1159.3) with international standards (such as the IEC). We have had numerous conversations with the IEEE-SA personnel to understand the copyright issues and ability to use portions of the IEC documents in IEEE standards. Several key members of the working group are in leadership positions with other Power Quality standards organizations and are providing coordination and liaisons with those groups. We will ensure this is taken care of properly.