

[Email This Letter](#)

28 February 2007

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

Re: P1564 - Guide for Voltage Sag Indices

Dear Karl:

I am pleased to inform you that on 27 February 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1564.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 s.hampton@ieee.org no later than 28 May 2007.

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 +1 732 562 6003 or by email at s.hampton@ieee.org.

Sincerely,

Sherry Hampton
Administrator, Governance
Standards Activities
Phone +1 732 562 6003
FAX +1 732 875 0695
Email: s.hampton@ieee.org

CC: mack@ieee.org, stds-pes-scc@ieee.org, dennis.hansen@pacificorp.com BCC: s.hampton@ieee.org, t.t.lee@ieee.org

PAR Request Date: 05 January 2007**PAR Approval Date:** 27 February 2007**PAR Signature Page on File:** Yes**Type of PAR:** New IEEE Standard**Status:** PAR for a New IEEE Standard**Root Project:****1.1 Project No.:** 1564**1.2 Type of Document:** Guide**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Guide for Voltage Sag Indices

3.1 Working Group Name [Voltage Quality Working Group](#)**Working Group Chair**
[Hansen, Dennis](#)
Phone: 801-220-4816
Email: dennis.hansen@pacificorp.com**Working Group Vice Chair****3.2 Sponsor** [IEEE Power Engineering Society Transmission and Distribution \(PE/T&D\)](#)**Sponsor Chair**
[Grady, W. Mack](#)
Phone: 512-471-5231
Email: mack@ieee.org**Name of Standards Liaison Representative (if applicable)**
[Mortensen, Karl N](#)
Phone: 763-241-2365
Email: kmortensen@grenergy.com**3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** July 2008**4.3 Projected Completion Date for Submittal to RevCom:** March 2009**5.1 Approximate number of people expected to work on this project:** 20**5.2 Scope:** This guide identifies appropriate voltage sag indices and characteristics as well as the methods for calculating them. Methods are provided for quantifying the severity of individual events (single-event characteristics), for quantifying the performance at a specific location (single-site indices), and for quantifying the performance of the whole system (system indices). Multiple methods are presented for each. The methods are appropriate for use in transmission, distribution, and utilization electric power systems.**5.3 Is the completion of this document contingent upon the completion of another document?** No**5.4 Purpose:** This document identifies and defines different characteristics and indices. It does not recommend the use of a specific set of indices, but instead recommends the method for calculating specific indices when such an index is used. The large variation in customers sensitive to voltage sags and power providers supplying them makes it impossible to prescribe a specific set of indices. Instead this document aims at assisting in the choice of index and ensuring reproducibility of the results after a certain index has been chosen. The user of this document may decide to calculate the value for just one index or for a number of different indices, depending on the application.

5.5 Need for the Project: Numerous papers and reports refer to voltage sags indices, but there is no IEEE definition of them. This guide will present IEEE's first definitions for voltage sag indices to make it easier for comparisons of monitoring campaigns. Similar methods for system performance, but concerning interruptions, are defined in IEEE Std. 1366 - Guide for Electric Power Distribution Reliability Indices. It is however important to realize that IEEE Std. 1366 considers events in the transmission and/or distribution system, whereas this document considers impact of events in any part of the power grid to electric power consumers.

5.6 Stakeholders for the Standard: The stakeholders for this project include power producers (electrical utilities), power consumers, university researchers, and electric power consultants.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes Presented Date: 2006-07-19

If no, please explain:

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

If yes, please explain:

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

If yes, please explain:

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

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

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

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

This was originally IEEE P1564 (PAR approved 01-2000), but was withdrawn. We are nearly complete with our draft, so want to have a new PAR to complete our work.

8.1 Sponsor Information:

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

If no, please explain: