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06 December 2006

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Re: PC62.34 - Standard for Test Methods and Performance of Low-Voltage (1000 V rms or less, 48-62 Hz) Surge Protective Devices (Secondary Arresters)

Dear William:

I am pleased to inform you that on 06 December 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/C62-34.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 06 March 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
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PAR Request Date: 11 October 2006**PAR Approval Date:** 06 December 2006**PAR Signature Page on File:** Yes**Type of PAR:** Revision to IEEE Standard**Status:** Revision to an Existing IEEE Std C62.34-1996**Root Project:****1.1 Project No.:** **PC62.34****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for Test Methods and Performance of Low-Voltage (1000 V rms or less, 48-62 Hz) Surge Protective Devices (Secondary Arresters)

2.1 Amendment/Corrigenda Title**3.1 Working Group Name** [Performance Standard for Low-Voltage Surge-Protective Devices \(Secondary Arresters\) WG](#)**Working Group Chair**
[Hill, Raymond C](#)
Phone: 404-675-1881
Email: ray.hill@neetrac.gatech.edu**Working Group Vice Chair****3.2 Sponsor** [IEEE Power Engineering Society Surge Protective Devices/Low Voltage \(PE/SPDLV\)](#)**Sponsor Chair**
[Dorr, Douglas S](#)
Phone: 407-968-3010
Email: d.dorr@ieee.org**Name of Standards Liaison Representative (if applicable)**
[Goldbach, William R](#)
Phone: 804-318-1739
Email: wgoldbach@ieee.org**3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** October 2009**4.3 Projected Completion Date for Submittal to RevCom:** October 2010**5.1 Approximate number of people expected to work on this project:** 25**5.2 Scope:** This standard applies to surge protective devices designed for application on the low-voltage supply mains (1000 V rms and less, frequency between 48 and 62 Hz) and intended to be connected at locations between, and including, the secondary terminals of the distribution transformer and the line side of the service entrance panel. Such surge protective devices are also known as secondary arresters. This is coordinated with C62.44 (the application guide), NEC Article 580, and UL 1449 3rd Edition.**Old Scope:** This standard applies to surge protective devices designed for application on the low-voltage ac mains (1000 V rms and less, frequency between 48 and 62 Hz.) This performance standard applies to surge protective devices intended to be connected at locations between and including the secondary terminals of the distribution transformer and the main service entrance panel. Surge protective devices limit transient overvoltages by diverting surge current and subsequently automatically interrupting the passage of follow current.

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

5.4 Purpose: This revision will bring C62.34 up to current industry practice. Other standards such as C62.44 (the application guide) will be used in the revision of this standard. The recently published UL 1449 3rd Edition and NEC Article 580 will affect how these products are applied and tested. Performance criteria along with failure mode and other tests will be considered and included.

Old Purpose: Secondary arresters have been used since 1940 to protect the secondary winding of distribution transformers, kw.h meters, and electrical loads downstream from breakdown of insulation during lightning strikes. Performance criteria for secondary arresters are included in standards for performance of high voltage arresters IEEE C62.1-1989 and IEEE C62.11-1993. With the proliferation of electronic equipment installed inside buildings, the emphasis has shifted away from protection of insulation on wiring devices to vulnerable electronic equipment. The purpose of this standard is to address that changed emphasis while, as far as possible, harmonizing with relevant international standards.

5.5 Need for the Project: There currently are no other test and performance standards for secondary arresters. This standard, when brought up to date, will provide industry and the consumer with a modern set of test methods and performance criteria for secondary arresters.

5.6 Stakeholders for the Standard: Stakeholders for this standard are electric utility engineers/designers, manufacturers of secondary arresters, and ultimately, the consumer who will benefit from properly designed and tested secondary arresster. The consumer, in this case, will be residential customeres, business customers, industrial customers, and electric utilities.

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:** 2006-10-02

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 PAR request supercedes the previous PAR dated 13 June 2002. Underwriter's Laboratories has recently released the 3rd Edition of UL 1449 Surge Protective Devices, which now incorporates secondary arresters. Many members of the UL Standards Technical Panel 1449 are also members of IEEE SPDC. The latest version of C62.44, the application guide, should be published in the first quarter of 2007. It has become evident to the working group that a scope and title change for C62.34 is necessary to keep in step with these other two documents. Additional test methods and performance criteria will need to be reviewed and decided upon for inclusion into the standard to do this. The new scope of C62.34 will also fall in line with that of C62.44.

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: