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10 November 2005

William R Goldbach
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Re: PC62.72 - Guide for the Application of Surge Protective Devices for Low Voltage (1000 Volts or Less) AC Power Circuits

Dear William:

I am pleased to inform you that on 10 November 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/C62-72.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 08 February 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
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PAR FORM

PAR Status: New PAR

PAR Approval Date: 10 November 2005

PAR Signature Page on File: Yes

1. Assigned Project Number: PC62.72

2. Sponsor Date of Request: 2005-05-04

3. Type of Document: Guide for

4. Title of Document:

Draft: Guide for the Application of Surge Protective Devices for Low Voltage (1000 Volts or Less) AC Power Circuits

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: Low Voltage Circuit Protective Devices Working Group

Approximate Number of Expected Working Group Members:14

8. Contact information for Working Group Chair:

Name of Working Group Chair: Douglas S Dorr

Telephone: 865-218-8005 **FAX:** 865-218-8001

Email: d.dorr@ieee.org

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 Surge Protective Devices/Low Voltage

Name of Sponsoring Committee Chair: Richard Odenberg

Telephone: 208-772-8515 **FAX:** 208-762-6163

Email: rodenberg@transtector.com

Name of Liaison Rep. (if different from the Sponsor Chair): William R Goldbach

Telephone: 804-236-3302 **FAX:** 804-236-4040

Email: wgoldbach@danaher-DPS.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: November 2005

12. Projected Completion Date for Submittal to RevCom: October 2006

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:

The transient overvoltages or surge events that are described and discussed in this guide are those that originate outside of a building or facility and impinge on a power distribution system through the service entrance conductors. Transient overvoltages or surge events that originate from equipment within a specific facility are not within the scope of this document.

This guide applies to:

- Surge Protective Devices (SPDs) that are manufactured for connections to 50 or 60Hz ac power circuits that are rated between 100Vac - 1000Vac.
- SPDs that are specifically identified, labeled, or listed for connections on the load side of the service entrance main overcurrent protective device.
- SPDs manufactured for use in an association with electrical power distribution equipment such as load centers, motor control centers, panelboards, switchboards, switchgear, and end-use equipment installed in commercial and industrial facilities.
- SPDs that contain at least one nonlinear component for either diverting surge currents or dissipating surge energy, or both. Examples of such nonlinear components are metal oxide varistors, silicon avalanche diodes, spark gap tubes, or thyristors.

This guide does not cover :

- SPDs identified, labeled, or tested as a Secondary Surge Arrester intended for connections on the line side of the service entrance main overcurrent protective device.
- SPDs associated with retail and consumer appliances and components for residential use.
- This guide does not specify or set limits on insulation levels of any components associated with power distribution systems or end use equipment.
- Individual SPD component specifications associated with any specific manufacturer of surge protection products.

Ferroresonators, motor-generators, uninterruptible power supplies, and filters containing only inductive or capacitive components are not considered SPDs in the guide.

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

No

14. Purpose of Proposed Project:

The primary purpose of an SPD is to provide a desirable level of surge protection by diverting surge currents and reducing surge voltages to a level that can be tolerated by the power distribution system and the equipment connected to the system. When specifying and installing any SPD in low voltage power distribution equipment associated with commercial and industrial installations, there are numerous application considerations that should be reviewed and evaluated before installation. Failure to consider the applications or misapplications of any SPD can directly influence the expected performance of the SPD and can result in undesirable effects on a power distribution system or end use equipment, or both. It is the intent of this guide to inform specifiers and users of SPDs, such as specifying engineers, electrical inspectors, facilities engineers, or Authorities Having Jurisdiction, of application and installation considerations for the purpose of desirable and satisfactory application of SPDs.

15. Reason for the Proposed Project:

End users, specifiers and installers will benefit through better understanding of the application considerations that go into installation of surge protective devices. When an SPD is properly installed, and maintained, the expectation is that downstream load equipment will be adequately protected for the majority of switching and lightning related surge events.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-05-03
- 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? Yes

The IEC is working on a similar application guide - not specifically intended for North American power systems.

Similar Scope Project Information:

SimSP: IEC SimProjNo: 61643-12 SimProjD: 2002 SimTitle: Surge Protective Devices connected to low-voltage power distribution systems: Selection and application principles – WG3

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)