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13 December 2004

James Wilson  
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Re: PC62.92.3 - Guide for the Application of Neutral Grounding in Electrical Utility Systems, Part III—Generator Auxiliary Systems

Dear James:

I am pleased to inform you that on 08 December 2004 the IEEE-SA Standards Board approved the above referenced project until 31 December 2008. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/C62-92-3.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](mailto:j.haasz@ieee.org) no later than 8 March 2005.

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](mailto:j.haasz@ieee.org).

Sincerely,

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# PAR FORM

**PAR Status:** Revision PAR

**PAR Approval Date:** 2004-12-08

**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** C62.92.3

**2. Sponsor Date of Request:** 2004-10-19

**3. Type of Document:** Guide for

**4. Title of Document:**

**Draft:** Guide for the Application of Neutral Grounding in Electrical Utility Systems, Part III—Generator Auxiliary 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 C62.92.3-1993(R2000)

**7. Working Group Information:**

**Name of Working Group:** WG 3.5.7 Taskforce 3

**Approximate Number of Expected Working Group Members:**3

**8. Contact information for Working Group Chair:**

**Name of Working Group Chair:** Steve G Whisenant

**Telephone:** 704-382-6608 **FAX:** 704-382-5418

**Email:** sgwhisen@duke-energy.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:** David W Jackson

**Telephone:** 508/935-1669 **FAX:** 508/935-1666

**Email:** djackson@rwbeck.com

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

**Name of Sponsoring Society and Committee:** Power Engineering Society Surge Protective Devices/High 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):** James Wilson

**Telephone:** 314-822-5489 **FAX:**

**Email:** jwwilson@ieee.org

**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:** 2008-03-01

**12. Fill in Projected Completion Date for Submittal to RevCom: 2008-10-30**

**Explanation for Modified PAR that completion date is being extended past the original four-year life of the PAR:**

**13. Scope of Proposed Project:**

The scope of this project is to summarize the general considerations in grounding of generating station auxiliary power systems, the factors to be considered in selecting between the appropriate grounding classes and specifying equipment ratings. This guide applies to both medium-voltage (1 kV-15 kV) and low-voltage (less than 1 kV) auxiliary power systems. The intent of this guide is to discuss grounding methods which may be used to limit equipment damage. The emphasis is on reliability and availability of auxiliary power system service, achieved through control of ground-fault currents and transient overvoltages.

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

**14. Purpose of Proposed Project:**

The purpose of the Guide is to present some basic considerations for the selection of neutral grounding parameters that will provide for the control of ground-fault currents and overvoltages on auxiliary systems of electrical utility three-phase generators. The purpose of this revision is to update Clause 4.3 Damage Criterion with current research on equipment damage, update all references, and to ensure no intrusion or overlap with IEEE Std 1584 or Arc Flash Hazards Analysis for personnel safety.

**14a. Reason for the standardization project:**

New research on fault arc damage to equipment is not consistent with the "Stanback" criterion presented in Clause 4.3. The work presented in IEEE paper ICPSD-02-7 will be considered for appropriateness as a replacement guide for estimating prospective equipment damage. Expected users are owners, operators, designers, testers, and maintainers of electric power generating plants/stations.

**15. Intellectual Property:**

**Has the sponsor reviewed the IEEE patent policy with the working group?** Yes

**Is the sponsor aware of copyrights relevant to this project?** Yes

There are several copyrighted reference publications from which permission will be required if certain data, text or figures are found desirable to copy or paraphrase in the revision.

**Is the sponsor aware of trademarks relevant to this project?** No

**Is the sponsor aware of possible registration of objects or numbers due to this project?** No

**16. Are there other documents or projects with a similar scope?** No

**Similar Scope Project Information:**

**17. 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, please answer the following questions:**

**Which International Organization/Committee?**

**International Contact Information?**

**18. If the project will result in any health, safety, or environmental guidance that affects or applies to human health or safety, please explain in five sentences or less.**

**19. Additional Explanatory Notes: (Item Number and Explanation)**