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04 March 2005

Bill Chiu  
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Re: PC57.12.23 - Standard for Submersible Single-Phase Transformers; 167kVA and Smaller; High-Voltage 25 000 Volts and Below; Low Voltage 600 Volts and Below

Dear Bill:

I am pleased to inform you that on 04 March 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/C57-12-23.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 02 June 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,

Jodi Haasz  
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# PAR FORM

**PAR Status:** Revision PAR  
**PAR Approval Date:** 2005-03-04  
**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** PC57.12.23

**2. Sponsor Date of Request:** 2005-01-06

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

**4. Title of Document:**

**Draft:** Standard for Submersible Single-Phase Transformers; 167kVA and Smaller;  
High-Voltage 25 000 Volts and Below; Low Voltage 600 Volts and Below

**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 C57.12.23-2002

**7. Working Group Information:**

**Name of Working Group:** Working Group on Revision of C57.12.23

**Approximate Number of Expected Working Group Members:**15

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

**Name of Working Group Chair:** Alan R Traut

**Telephone:** 859-879-2912 **FAX:** 859-873-2236

**Email:** atraut@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:** Power Engineering Society Transformers

**Name of Sponsoring Committee Chair:** Kenneth S Hanus

**Telephone:** 972-273-3638 **FAX:** 972-273-3603

**Email:** ken.hanus@ieee.org

**Name of Liaison Rep. (if different from the Sponsor Chair):** Bill Chiu

**Telephone:** 626-308-6086 **FAX:** 626-308-6930

**Email:** bill.chiu@sce.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:** December 2006**12. Projected Completion Date for Submittal to RevCom:** October 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 standard covers certain electrical, dimensional, and mechanical characteristics and takes into consideration certain safety features of single-phase, 60 Hz, liquid-immersed, self-cooled, underground distribution transformers with separable insulated high-voltage connectors. These transformers are rated 167 kVA and smaller, with high voltages of 25 000 V and below and with low voltages of 600 V and below. These transformers are generally used for step-down purposes from an underground primary cable supply. These transformers are typically installed in an enclosure below ground level, operated from above and suitable for submerged operation. This standard does not cover the electrical and mechanical requirements of any accessory devices that may be supplied with the transformer.

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

No

**14. Purpose of Proposed Project:**

This standard is intended for use as a basis for determining performance, interchangeability, and safety of the equipment covered, and to assist in the proper selection of such equipment.

**15. Reason for the Proposed Project:**

The present standard does not clearly specify the requirements for submerged operation. Interpretation is left to the stakeholders (users and manufacturers of submersible transformers) and can lead to confusion. To correct this problem, the proposed revision will change the title from 'Underground Transformers' to 'Submersible Transformers' with the corresponding revisions to the scope and purpose of the document as stated above. The technical sections of the document will then be revised to specify the requirements for submerged operation.

**16. Intellectual Property:****a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2004-10-25**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?** 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)**

For reference, the previous title of the document was: Standard for Underground Type, Self-Cooled, Single-Phase, Distribution Transformers with Separable Insulated High-Voltage Connectors; High Voltage 25 000 V and Below; Low Voltage 600 V and Below; 167 kVA and Smaller. The changes to the title are to provide clarity and make the title more succinct. The details contained in the old title are still delineated in the document scope and are unchanged.