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31 March 2006

Bill Chiu
Southern California Edison
501 South Marengo Avenue
Alhambra, CA 91802
bill.chiu@sce.com

Re: PC57.93 - Guide for Installation of Liquid-Immersed Power Transformers

Dear Bill:

I am pleased to inform you that on 30 March 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2007. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/C57-93.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 28 June 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
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PAR FORM

PAR Status: Modified Revision PAR
PAR Approval Date: 30 March 2006
PAR Signature Page on File: Yes

1. Assigned Project Number: PC57.93

2. Sponsor Date of Request: 2005-12-05

3. Type of Document: Guide for

4. Title of Document:

Draft: Guide for Installation and Maintenance of Liquid-Immersed Power Transformers

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? Yes

If Yes: Indicated PAR number/approval date: C57.93 - 2002-06-13

If Yes: Is this Project in Ballot now? No

6b. The Project is a: Revision of Std C57.93-1995

7. Working Group Information:

Name of Working Group: Power Subcommittee

Approximate Number of Expected Working Group Members:25

8. Contact information for Working Group Chair:

Name of Working Group Chair: Michael Lau

Telephone: 604-6997521 **FAX:** 604-6997541

Email: mike.lau@bctc.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:

Telephone: FAX:

Email:

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

Name of Sponsoring Society and Committee: IEEE Power Engineering Society Transformers

Name of Sponsoring Committee Chair: Don J Fallon

Telephone: 973-430-8191 **FAX:** 973-624-0926

Email: donald.fallon@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: February 2006

12. Projected Completion Date for Submittal to RevCom: March 2007

Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:

Statement of why the extension is required: More time is needed to complete the revision of the document and to conduct the balloting.

No. of WG Members: 10

Times per year the WG meets:

a) In person - Twice

b) Via teleconference - None (but the group does do work via e-mail)

Times per year draft version circulated electronically: Once

% Draft Stable: 85%

of Significant Working Revisions of the Draft: 5

Balloting History: The document has not yet gone to Sponsor ballot.

This is the first request for an extension.

13. Scope of Proposed Project:

The recommendations presented in this guide apply to the shipping, handling, inspection, installation, and maintenance of liquid-immersed power transformers rated 501 kVA and above with secondary voltages of 1000 V and above. This guide covers the entire range of power transformers, including extra high voltage (EHV) transformers. This guide does not cover special transformers such as furnace transformers, rectifier transformers etc. Distinctions are made as required for various MVA ratings, voltage ratings, and types of liquid insulation.

Clause 3 contains information for use with transformers rated below 10 MVA with high voltages less than 69 kV. Clause 4 applies to transformers rated 10 MVA and above with primary voltages of 69 kV and above, including EHV transformers.

NOTE 1: For transformers with primary voltages that are less than 69 kV and larger than 10 MVA, users should follow Clause 4.

NOTE 2: The user should carefully read the instruction book supplied by the manufacturer. Any conflict with this guide that may occur should be resolved with the manufacturer for each specific installation.

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

14. Purpose of Proposed Project:

This Guide intends to provide the users the procedures, criteria and current practices in the installation and maintenance of liquid immersed power transformers.

15. Reason for the Proposed Project:

The revised version incorporates the most up-to-date practices and adds many sections on the installation and maintenance of power transformers. A section on cold start-up of transformers is included. Criteria in the vacuum hold time and soak time etc have been added. Imperial units conversion to Metric units have also been added.

16. Intellectual Property:

a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2002-04-04

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