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09 May 2007

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Re: PC57.113 - Recommended Practice for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors

Dear Bill:

I am pleased to inform you that on 07 May 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/C57-113.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 05 August 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,

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PAR Request Date: 20 February 2007**PAR Approval Date:** 07 May 2007**PAR Signature Page on File:** Yes**Type of PAR:** Revision to IEEE Standard**Status:** Revision to an Existing IEEE Std C57.113-1991**Root Project:****1.1 Project No.:** **C57.113****1.2 Type of Document:** Recommended Practice**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Recommended Practice for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors

3.1 Working Group Name [Dielectric Tests - TF on PD Measurement Working Group](#)**Working Group Chair**
[Poulin, Bertrand](#)
Phone: 450-652-2901 X1288
Email: bertrand.f.poulin@ca.abb.com**Working Group Vice Chair****3.2 Sponsor** [IEEE Power Engineering Society Transformers \(PE/TR\)](#)**Sponsor Chair**
[Fallon, Don J](#)
Phone: 973-430-8191
Email: donald.fallon@ieee.org**Name of Standards Liaison Representative (if applicable)**
[Chiu, Bill](#)
Phone: 323-720-5275
Email: bill.chiu@ieee.org**3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** July 2007**4.3 Projected Completion Date for Submittal to RevCom:** October 2010**5.1 Approximate number of people expected to work on this project:** 40**5.2 Scope:** This recommended practice describes the test procedure for the detection and measurement by the wide-band apparent charge method of partial discharges occurring in liquid-filled power transformers and shunt reactors during dielectric tests, where applicable.**Old Scope:** This test procedure applies to the detection and measurement by the wide-band apparent charge method of partial discharges occurring in liquid-filled power transformers and shunt reactors during dielectric tests, where applicable.**5.3 Is the completion of this document contingent upon the completion of another document?** No

5.4 Purpose: Partial discharge measurements in transformers and shunt reactors should preferably be made on the basis of measurement of the apparent charge. Relevant measuring systems are classified as narrow-band or wide-band systems. Both systems are recognized and widely used. Without giving preference to one or the other, it is the object of this document to describe the wide-band method. General principles of partial discharge measurements, including the narrow-band method, are covered in IEC 60270 (2000), and IEC 60076-3 (2000).

Old Purpose: Partial discharge measurements in transformers and shunt reactors may preferably be made on the basis of measurement of the apparent charge. Relevant measuring systems are classified as narrow-band or wide-band systems. Both systems are recognized and widely used. Without giving preference to one or the other, it is the object of this document to describe the wide-band method. General principles of partial discharge measurements, including the narrow-band method, are covered in IEEE Std 454-1973 [7]1, IEC 270 (1981) [2], and IEC 76-3 (1980) [1].

5.5 Need for the Project: The present document is nearly 20 years old and does not adequately reflect today's technology and practices. The project aims at modernizing the document as well as harmonizing wherever possible North-American Practices with those recommended by IEC

5.6 Stakeholders for the Standard: Manufacturers and users of power transformers and shunt reactors

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: 2007-03-12

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:

The title of the present document states that it is a guide. The procedures described in the document have become today's preferred and recommended practices and are widely accepted world wide. I request to make it a recommended practice rather than a guide to better reflect its current application. Item 5.4, the titles of the IEC documents are as follows: 60076-3: Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air 60270: High-voltage test techniques - Partial discharge measurements

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: