

Unapproved Minutes
IEEE/PES Transformers Committee
Standards Subcommittee Meeting
October 28, 2009 Lombard, IL, USA

1. Opening Remarks

- a. Chair, William Bartley summarized the recent activities at the ADCOM meeting that resulted in the approval for issuance of **Transformers Committee Organization & Procedures Manual – April 2009** to the PES. The O&P Manual is posted on TC website (Link is: www.transformerscommittee.org/info/OPMan04-2009.pdf).
- b. The O&P Manual has a procedure for publishing papers which requires updating. A volunteer is requested to update the section “12.2 EVALUATION AND PRESENTATION OF TECHNICAL PAPERS” with respect to copies, distribution, and use of electronic tools, in lieu of present hard copy process.
- c. The Transformers Committee (TC) is also seeking recommendations for methods and means to store and archive the electronic data, other than floppy disks and hard drives. The Chair will be working with the PES Standards Coordinating Council, and other PES Standards committee chairs (such as Switchgear) etc to determine the IEEE PES storage / archive procedure for the TC.
- d. The **Fall 2009 Standards Report** website location will be presented in detail at the Oct 29 main meeting. (The link is; <http://www.transformerscommittee.org/meetings/F2009-Lombard/Minutes/F09-StandardsReport.pdf>).
- e. The IEEE TC requirements to have quorum present was reiterated.

2. Meeting Attendance

The Standards Subcommittee met on Wednesday, October 28, 2009, at 4:30 PM. A preliminary count of members (requested to stand if believed to be member) showed 25 members in attendance. (At the meeting this was not believed to be a quorum; however, business as usual was conducted). The meeting roster was circulated.

Postscript – After the meeting a verification of the roster and role status regarding members was conducted and subsequently determined that a quorum was present. Based on an email verification; there were (5) members that were in attendance, but did not sign roster; and (10) that were shown as members, did not attend and have graciously agreed to be changed to a Guest role; and (4) attending guests that have requested member status; therefore, the SC Standards really did have a quorum present.

The final count shows 38 Guests, and 33 Members participated in the Fall 2009 SC Standards meeting.

3. Approval of previous meeting minutes

Vice Chair motioned for approval of the previous meeting minutes. The meeting minutes from the Spring 2009 meeting in Miami, Florida were approved as posted.

4. Working group reports.

- a. **Cont. Revision of C57.12.00** – Bill Bartley reported the present status as ballot resolution continues, and that shortly the standard would be re-issued for recirculation. The Standards SC Chair recognized and thanked Dong Kim for the efforts over the past several years; and also announced a change of Working Group Chair to Steven Snyder going forward.
- b. **Cont. Revision of C57.12.90-2006 – S. Antosz-** The status of C57.12.90 is effectively ready for joint recirculation with C57.12.00. The negative ballot from last recirculation has been resolved.
- c. **PC57.12.70 Terminal Markings Revision – S. Shull** – The quorum (6 of 11 members) reviewed examples provided by Chuck Simmons. Volunteers committed to check with manufacturers to provide additional examples coming from customers. Changes in the drawings will be made by WG Chair after considering the comments of the Chuck Simmons and Dr. Juan Balda.
- d. **PC57.12.80 – Terminology for P & D Transformers – B. Chiu** The status is in ballot resolution. Reference temperature has been requested to be added. Core reference Temperature has also been requested to be added. The presentation will be in the folder WG PC57.12.80 on the TC website

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- e. **WG on Revision of IEEE C57.152 (old 62) –Jane Verner** – Total of 66 were in attendance including 32 members, (including 4 requesting membership) and 34 guests at this sixth meeting. The Spring 09 meeting minutes were approved.

Three web meetings here held, since the last formal meeting, achieving progress in several key areas towards a revised standard; Excitation Current, Infrared Testing, Visual Inspection & Ratio/ Polarity/ Phasing.

A new section on Tank Vacuum Testing by Dharam Vir was discussed. It was determined that the section was not properly named and should focus on vacuum filling in the field as referenced by clause 4.8.1 of C57.93. Comments will be incorporated.

Section 6.1.2 - Ratio/ Polarity/Phase was revised after the comments of the September 15th web meeting by John Herron. The section was revisited. The group agreed to call the “test meter current ” rather than “test meter excitation current”.

Jeff Foley and Paul Salvato gave interpretation comments on 6.1.2.4 with two different connection charts for TTR. Jeff and Paul will have further discussion on the charts with Peter Werelius to combine them into one chart.

Section 6.1.7 - Induced Voltage Test was assigned to Kirk Robbins and Jim McIver.

A third draft of PC57.152 was issued to WG and has been posted on the web. The draft will be updated to include the sections above. Volunteer assignments to review various sections were made and are included on a separate spreadsheet. Draft 4 in Word format with track changes, and a clean version (with changes accepted) will be posted by Dec 1.

- f. **TASK FORCE on IEEE-IEC CROSS REFERENCE – J. Sim** - the following progress was reported:

IEC 60076-1/C57.12.00/C57.12.90 – comparison will move forward even though new edition is not complete.

IEC 60076-3/C57.12.00/C57.12.90 – reassigned

IEC 60076-5/C57.12.00/C57.12.90 - volunteered for this review

IEC 60076-7/C57.91 – reassigned

IEC 60559/C57.104 – has been reassigned

IEC 60076-2 Annex D/PC57.130 – has been reassigned

A comparison of ASTM to IEC regarding materials may also be included.

The complete project list, cross reference list and assignments are available in the folder for the Task Force on IEEE-IEC Cross.

- g. **TASK FORCE on IEEE-IEC Harmonization – Jeewan Puri** - first meeting held with 6 members and 16 guests present. The following points were discussed:

- The main purpose of this meeting was to develop a scope statement for this working group. J. Puri explained that there is a need among the IEEE standards developers to understand the process and the expected deliverables of the IEEE & IEC Standards Harmonization.
- Jodi Haasz of IEEE Standards reviewed with the group the help that she and her colleagues can provide for obtaining any permissions needed for obtaining any IEC information for inclusion in our standards. She also reviewed the process for developing the Dual Logo documents.
- J. Puri explained to the WG participants that there is a need for a clear policy toward developing IEEE Standards that have worldwide recognition. The WG agreed that this is the right approach for developing IEEE Standards in the future and that this should form the basis for our harmonization efforts.

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- J. Puri reviewed his proposal for the Scope Statement for this WG. It was agreed that this proposal should be sent to all the WG participants for their comments. These comments will be discussed in our next meeting.
- Paul Jarman (Chairman IEC TC 14) proposed that the contacts should be identified in IEEE and IEC organizations for information flow on projects that are being worked on in the two standards making bodies.
- It was agreed that J. Puri's proposal for the Scope Statement will be circulated among the WG participants for their input and their comments. These comments will be discussed in the next WG meeting. The next step will be to write an outline of a position paper on the subject of harmonizing IEEE and IEC standards.

h. C57.144 - Guide to Metric Conversion of Transformer Standards – Peter Balma – The reaffirmation is in progress, the balloting was launched early October, and no negatives had been received as of Oct 28, 2010 per, as reported by Bill Bartley for Peter Balma

5. Old Business

Task Force - Class I / Class II – Gael Kennedy - The Standards Subcommittee Chair advised that this topic is also under review by Dielectric SC. Being the Dielectric SC is primary on this topic, the Standards SC Task Force will defer this topic. pending Dielectric SC review. Task Force did not meet.

6. New Business

No new business was raised.

7. Adjournment

The motion to adjourn by Chair made and hearing no objections; the meeting adjourned around 5:30PM.

Respectfully Submitted

Kipp J. Yule

Standards SC