

Unapproved Minutes
IEEE/PES Transformers Committee
Standards Subcommittee Meeting
March 14, 2012 Nashville, TN

1. Opening Remarks

The Chair, William Bartley opened the meeting and summarized the recent activities of the Transformer Standards activity for the four-month period of November 1, 2011 through March 1, 2012, no new Standards, six Revisions and one Reaffirmation were approved by RevCom. Also, NesCom approved two PARs for new standards, ten PARs for Revisions, one PAR modification, and no PAR extensions. The Transformer Committee is responsible for almost 100 standards, plus over 55 PARs, projects for new standards and revisions. For the full STANDARDS REPORT see the TC website via the following link:

<http://www.transformerscommittee.org/meetings/S2012-Nashville/Minutes/S12-StandardsReport.pdf>

An overview of the upcoming new 10 year maintenance cycle change presented at the Standards Luncheon was given. The change will extend the revision (reaffirmation) cycle from 5 years to 10 years after the last date of approval or maintenance action. The Chair stressed there would be no extensions. It is suggested to review the full presentation at:

<http://www.transformerscommittee.org/info/F11/F11-IEEE-StndsPolicyChanges.pdf>

2. Meeting Attendance

The Standards Subcommittee met on Wednesday, March 14, 2012, at 4:30 PM. A role call showed over 21 members in attendance constituting a quorum at the start of the meeting. Overall there were 93 attendees, with 32 members, with 61 guests, including 6 that requested membership upon tabulation of the circulated rosters.

3. Approval of previous meeting minutes

The Chair asked if there were any comments or corrections to the previous meeting minutes, and motioned for approval. There were no comments to the meeting minutes of the Fall 2012 meeting in San Diego, California; and the minutes were approved.

4. Working group reports.

- **Cont. Revision of C57.12.00 – Steve Snyder** reported the following:

This is essentially a working group of one person. There are no meetings.

Standard C57.12.00 was published September 2010. A new PAR was requested in April 2011 and approved June 16, 2011 to cover the ongoing work for the continuous revisions. This PAR is good through December 31, 2015.

The PCS Task Force working on stabilizing windings has finished their work, which will result in a small revision to the document. There are three (3) other PCS issues underway at present, although it will require considerable debate and surveys before any of those topics are fully vetted. There were a few negative ballot comments from the prior ballot pertaining to Dielectric Tests, Insulation Life, and Insulating Fluids, that I have not heard were resolved or addressed as yet. I think those items should be completed before we move forward with a new revision.

Late 2012 I plan to solicit input from all the Subcommittees to determine if they have changes ready for inclusion in the next revision cycle.

Respectfully submitted, by Steven L. Snyder, WG Chair, on March 14, 2012

- **Cont. Revision of C57.12.90-2006 – S. Antosz** reported the status of as:

This is essentially a working group of one person. There are no meetings held. The purpose of the WG is to keep track of the work being done in various TF / WG / SC for inclusion in the continuous revision of C57.12.90 in a consistent manner.

Summary

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The new PAR was approved on June 15, 2011. It is valid until Dec 31, 2015. There has not been much activity since October 2011.

Future Revisions

Changes already approved for the next revision:

- New Sub-clause 10.2.5 Connection of neutral terminal during switching impulse tests by Pierre Riffon's WG Revision to Impulse Test in Dielectric Test Subcommittee. Submitted on 4/27/09.
- Revisions to Clause 12 Short-circuit tests and new Annex on Connections diagrams for testing three-phase transformer using alternate single-phase source by Marcel Fortin's Task Force in the Performance Characteristics Subcommittee. Submitted in Fall 2009.
- Revision to Sub-clause 10.3.2.4 Tap connections during lightning impulse test by Mark Perkins' WG Revision to Impulse Test in Dielectric Test Subcommittee. Submitted on 10/28/10.
- Revisions to Sub-clauses 10.2.1, 10.3 and 10.3.3 which increases the number of full wave impulse waves applied from one to three. This is the same as IEC
- Revisions to Clauses 6 & 7 Polarity & Phase-relation and Ratio tests from Pierre Riffon's PCS WG for Revision of C57.12.90. Final survey circulated in Sept 2011.

Pending work

- Revision to Clause 11 Temperature-rise tests by Paulette Payne Powell's WG in the Insulation Life Subcommittee.
- Revision to Clause 13 Audible Sound by Ramsis Girgis' TF in the Performance Characteristics Subcommittee.

Respectfully submitted by Stephen Antosz, WG Chair, on March 14, 2012

• **WG on Revision of IEEE PC57.152 (old 62) –Loren Wagenaar reported for Jane Verner –**

The Working Group met on March 13, 2012 and began with introductions of all. A total of 109 people with 64 guests were in attendance, including 45 members. We had a quorum.

The Boston fall 2011 meeting minutes were approved.

Draft 5.0 has been issued and posted on the website.

Kipp Yule led a discussion on the reorganization of the Guide and presented a cross reference chart from IEEE 62 to PC57.152. We have moved away from IEEE 62 format / arrangement to follow a proposed sequence of testing to focus on winding and tests related to the main core and coil then list by Ancillary Equipment, etc. The chart shows how many new clauses have been added to PC57.152 draft that did not appear in IEEE 62. The Chart for commissioning, in-service, after system fault and after internal fault is now Clause 5.

It was agreed to take a survey of the working group members on Draft 5.0. **Comments on Draft 5.0 are due on April 15, 2012.** Due to the number of different Office Word versions when making comments, **please refer to the pdf version for the line and page number and include the clause number.**

Our PAR expires in December 2012. A draft schedule was discussed; we hope to have the Guide balloted this summer. At least three months need to be allocated for ballot resolutions. Volunteers for the ballot resolution committee are as follows:

- David Murray
- Wally Binder
- Eric Davis
- Dick Amos
- Dave Wallach

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- Mario Locarno
- Dave Harris
- Jin Sim

Patrick McShane discussed the various nomenclatures used for transformer dielectric coolants throughout all the IEEE transformer standards. We should create uniformity. Clauses where generic oil terms are used should not be limited to mineral oil. Patrick is looking for volunteers to review the C57 series of standards and help to review and get the proper terms for fluids to be used. We will edit PC57.152 except items that would affect the PAR such as the title and scope.

Respectively submitted by Jane Verner – WG Chair

- **TASK FORCE on IEEE-IEC Harmonization – Bill Bartley reported for Jeewan Puri -**

The Paper on Harmonization of Standards with the IEC was presented and accepted by the Standards Subcommittee. This paper provides an overview of the process for new technical standards, existing standards, items to consider, copyright permissions, Annex A of IEC Technical Committees and Annex B a sample copyright permission request letter. Everyone is encouraged to read the paper, and then apply its recommendations, as appropriate. The paper is available on Standards SC webpage.

- **TASK FORCE on Recommended Terminology for the use of Fluid, Oil, and Liquid across all the Transformer Standards, Guides and Best Practices – P. McShane**

A brief presentation by Task Force Chair P. Mc Shane was given to explain the purpose of the review, and output report of a white paper describing the nomenclature uniformity issues, and identification of clauses that should considered including, or excluding, the various insulating mediums including alternative fluids.

Patrick requested volunteers to contact him

The presentation is on the Standards Subcommittee webpage as given by P. McShane.

5. Old Business

- None

6. New Business

- None

7. Adjournment

The motion to adjourn by Chair made and hearing no objections; the meeting adjourned around 5:05PM.

Respectfully submitted,

Jerry R. Murphy

Standards SC