

Distribution Transformer Subcommittee Report

Chairman:	<u>Stephen Shull</u>		
Meeting Date:	<u>10/28/2009</u>	Time:	<u>9:30 – 10:45</u>
Attendance:			
	Members		<u>30</u>
	Guests		<u>22</u>
	Guests Requesting Membership		<u>7</u>
	Total		<u>59</u>

Meeting Minutes / Significant Issues / Comments:

A welcome was made by Steve Shull explaining that Ken Hanus has resigned as sub-committee chair and he was selected to work in this capacity.

A roll call of members was made and a quorum was not present. The previous meetings minutes and this meeting's agenda were handed out to the group. He indicated that the minutes should be reviewed and consideration of these would be done at the meeting in the spring 2010 meeting.

At this point, Steve asked that everyone introduce themselves. Rosters were circulated to provide a permanent record of attendance for the meeting.

Steve discussed membership in the main transformers committee. He stated the form is available on the Transformer Committee web site. He also pointed out that the applicants must be active working group members of the committee before they will be considered.

The following reports were submitted by the working groups:

- C57.12.20 – Overhead Distribution Transformers
 - ◆ Chuck Simmons asked the working group recognized Alan Wilks for his work as working group chair of this group. The working group reviewed the changes from draft 2 to draft 3. There was a lively discussion concerning the temperature range of the gaskets. There was no consensus reached and this discussion would be continued at the next meeting.
- C57.12.30 – Standard for Pole Mounted equipment – Enclosure Integrity for Coastal Environments.
 - ◆ The standard has been balloted and the comments that were received were discussed. However, most of the comments were not technical in nature and no technical changes to the document were recommended by the working group. However, a recirculation ballot will be done to allow the editorial items that were changed to be reviewed by the balloting group.
- C57.12.31 – Standard for Pole-Mounted Equipment – Enclosure Integrity
 - ◆ The standard has been balloted and the comments that were received were discussed. However, most of the comments were not technical in nature and no technical changes to the document were recommended by the working group. However, a recirculation ballot will be done to allow the editorial items that were changed to be reviewed by the balloting group.
- C57.12.33 – Loss Evaluation Guide for Distribution Transformers
 - ◆ This working group has been move to the Performance Characteristics Subcommittee. This Working Group will submit a new PAR to revise C57.120 and C57.12.33 will be abandoned.

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- 12.34 – 3-phase Pad-Mount Transformers
 - ♦ The document has been balloted, gone through comment resolution, recirculation ballot, and has been submitted to REVCOM. The Working Group will submit a new PAR to increase the rating limit of the standard from 5 MVA to 10MVA. A comment obtained during the balloting raised a concern that the tank rupture limit and pressure relief was in conflict. A task force was formed to review these requirements, reporting back to the Working Group at the next meeting. Carlos Gaytan was appointed to lead this group. The rest of the members of this task force are Ali Ghafourian, Dan Mulkey, Marty Rave and Marcel Fortin.
- C57.12.37 – Electronic Test Data Reporting
 - ♦ The document was ready for editorial review and ballot. Rich Hollingsworth has announced his retirement and John Crotty was selected to take this position.
- C57.12.38 – 1 phase Padmount transformers
 - ♦ The document was balloted and submitted to REVCOM. A new PAR was discussed. The result was that a new PAR would be submitted with the top kVA rating of 250 kVA and top voltage rating of 480/240 volt. The final wording of the PAR will be sent to the group for review. There was a discussion concerning three comments that were received during balloting. These were the possible conflict concerning the pressure relief and tank with-stand pressure, AWG wire gauge concerning connector capacity as opposed to a measured diameter specification, and oil expulsion test wire gauge. These will be covered in the development of the new standard.
- C57.15 – Step Voltage Regulators
 - ♦ This standard was recirculated with the negatives being resolved which resulted in a 100% affirmation. The document was submitted to REVCOM. Since this document is seeking dual logo status, a lot of work has been done with IEEE staff and TC14. At this point a meeting of TC14 is planned in Washington on November 18th of this year with this document being submitted in with hope that it can obtain the dual logo status.
- TF Transformer Efficiency and Loss Evaluation (DOE)
 - ♦ A general presentation of the DOE Rule was presented by Phil Hopkinson. The two types of testing, 100% testing and AEDM, were discussed. There was discussion on the definition of “Model” as it applied to testing covered by the DOE rule. There wasn’t a resolution to this discussion. It was pointed out that the highest possible loss connection will be tested. No labeling was required by the rule but we have provided for the optional nameplate labeling in C57.12.00 which calls out a statement of “DOE Complaint”.

There was no Old Business.

Under new business, a motion was made by Marcel Fortin to move the TF studying the pressure relief issue in C57.12.34 working group to the Distribution Subcommittee. This was seconded by Ron Stahara. In the discussion, Marcel added that this issue affects all of our products. He also requested a meeting slot for the next meeting to discuss this issue and finalize the report. This motion was passed by acclamation without any negative voice.

Jerry Corkran asked to address the committee concerning some issues with the C57.12.90. He stated that in his opinion heat run tests proposed will conflict with distribution transformer current testing practices and will take undue time in the test procedure. Marcel Fortin rebutted this comment by saying that the type test should include all windings to determine the troublesome winding pair. He said that he was not opposed to a routine test only doing the troublesome

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winding pair. Jerry urged us all to sign up for the ballot and become familiar with the issue and vote accordingly to our own understanding.

Steve asked if anyone was doing PD testing on distribution transformers and if they were that they get with him after the meeting. Marcel pointed out that PD testing will be the topic of the next meeting's tutorial and urged us to attend this presentation so that we might see how this might play a role in distribution transformer testing.

Ali Ghafourian commented that the quorum requirement was onerous and was causing difficulty in getting the work done on our standards. Alan Wilks pointed out that this requirement also required quite a bit of time thus making it difficult to complete our business. Since Ed Smith was in attendance, Steve asked if Ed could address this issue. There was quite a bit of discussion concerning this subject. Ed pointed out that if an issue was voted in the working group and this item was seen to be an issue during balloting, a quorum in a working group makes this vote hold good weight in a REVCOM review. Bill Chui concurred with these comments and spoke in support of this position. Ed suggested to the working group chairs that they review their rosters and determine who should be considered for membership. The Transformer Committee O&P manual gives guidance concerning this issue.

Brian Klaponski asked that the Transformer Committee leadership look at some method to encourage our companies to support our work. He indicated that the quorum issue might be resolved if the members could attend.

Steve stated that some late arrivals had allowed us to reach a quorum. A motion was made by Lee Mathews and seconded by Ron Stahara to approve the minutes as written. There was not any discussion and the motion passed.

The meeting adjourned at 10:45 AM.