

## TASK FORCE FOR REVISION TO LOW FREQUENCY DIELECTRIC TESTS

Pittsburgh, PA – March, 27, 2018, 1:45 p.m.

Chair: Bill Griesacker

Vice Chair: Daniel Blaydon

Secretary: Myron Bell

There were 107 attendees, 41 of 62 members and 66 guests were present at the meeting; 9 guests requested membership, 6 were granted, 9 members were moved to guest status. More than 50 % of the working group members were in attendance at the meeting, therefore a quorum was present.

1. The meeting was called to order at 1:45 PM.
2. Attending members were counted and quorum was verified.
3. There were no objections to unanimous approval of the agenda.
4. There were no objections to unanimous approval of the meeting minutes from the 2017 Fall meeting in Louisville.
5. Old business
  - a. Tap changer position during induced test (survey results).

Bertrand Poulin summarized the results of the 4<sup>th</sup> survey, indicating a 98.9% approval rate. The majority of the new text will be moved to the annex of C57.12.90 until the Low Frequency Dielectric Test Guide is published, at which point, the material will then be moved to the guide.
  - b. Applying pressure inside a transformer tank during induced test (survey results)

Steve Antosz is still working on this, with Bertrand Poulin conducting the surveys. One last survey will be sent to try and achieve closer to 100% approval.
  - c. Alternative Applied test method for HV Delta windings.

This topic will be moved to the responsibility of the LF Dielectric Test Guide TF, under Dan Sauer.
  - d. Clarification of measuring voltage during low frequency dielectric tests  

Bertrand gave a brief description of the 3 different types of voltmeters, and how they display/interpret voltage. Survey results for the topic were reviewed and comments discussed. Bertrand also displayed a proposed addition to paragraph 10.5 of C57.12.90 that would recommend the use of "Crest Responding Voltmeters", with additional information incorporated into the Low Frequency Dielectric Test Guide. Another survey will be sent out and the results reviewed at the next meeting.
  - e. Gassing issue for certain types of transformers with wound cores: proposal for new design test  

Phil Hopkinson provided background information concerning gassing issues for wound core transformers, as a result of poor core ground location. Phil displayed his proposed wording, he would like inserted into C57.12.00 and C57.12.90, requiring a new design test with PD measurement of these types of class I transformers. Input needs to be obtained

from those with distribution transformer experience based on feedback from Dan Sauer of Eaton.

6. TF PD Factory Limits report by Vinay Mehrotra

TF debated the scope and little consensus was achieved. Bertrand Poulin has offered to help come up with a different way to present the topic so we can move on this topic. Changes to the scope must be approved by the main Task Force for Revisions to Low Frequency Dielectric Tests.

7. Study Group – PD in bushings during factory testing – Dave Geibel

Dave Geibel has agreed to lead the study group on bushing PD during factory testing. A time slot will be requested for the next meeting.

8. New business

A motion was made by Don Ayers to form a task force to revise the test procedure, test levels, and acceptance limits for partial discharge testing of Class I transformers. A 2nd for the motion came from Mickel Saad

The meeting time expired and the motion discussion was tabled until the next meeting in Jacksonville.

The meeting adjourned at 3:00 p.m.