

## TASK FORCE FOR REVISION TO LOW FREQUENCY DIELECTRIC TESTS

Louisville, KY – October 31, 2017, 1:45 p.m.

Chair: Bill Griesacker

Vice Chair: Daniel Blaydon

Secretary: Myron Bell

There were 118 attendees, 36 of 52 members and 80 guests were present at the meeting; 20 guests requested membership, 12 were granted. 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 followed by introductions.
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 Spring meeting in New Orleans.
5. Old business
  - a. Tap changer position during induced test (survey results).

Bertrand recently issued a new draft of the proposal taking comments into account. The results of the survey will be summarized for the task force.
  - b. Applying pressure inside a transformer tank during induced test (survey results)

Steve Antosz will submit a new proposal concerning the application of pressure during factory PD testing. This proposal will be surveyed before the next meeting.
  - c. Alternative Applied test method for HV Delta windings.

Chair will approach SC about forming a group to develop a Guide for Low Frequency Dielectric Test Guide document.
  - d. Gassing issue for certain types of transformers with wound cores: proposal for new design test  

Phil Hopkinson's recommendations concerning gassing Issues for certain types of transformers with wound cores will be distributed to the task force. This will be discussed at the next meeting.
6. TF PD Factory Limits report by Vinay Mehrotra  

Two motions were made to accept IEC PD limits and both failed. There were calls for more study to justify reducing PD limits. The TF will conduct a survey to better understand what will be accepted changes to standards for PD limits.
7. New business
  - a. PD in bushings during factory testing.

A study group will be formed to provide a recommendation if there should be additions or changes to standards or guides to address this topic. Users, transformer manufacturers joined but no bushing manufacturers joined. The chair asked the bushing subcommittee for bushing manufacturers to join the study group and three volunteers joined..

b. Test voltage source measurement for low frequency test–

Bertrand Poulin identified a gap in the transformers standards based an IEEE Std. 4 requirement that each apparatus standard define the value of the test voltage for alternating voltage as the “*peak value divided by  $\sqrt{2}$ , or the rms value as defined by the relevant apparatus standard*”. Bertrand provided a recommendation to add text to provide this definition. Bertrand’s proposal will be provided in the form of a survey to the task force.