

## TASK FORCE FOR REVISION TO LOW FREQUENCY DIELECTRIC TESTS

Jacksonville, FL – October, 16, 2018, 1:45 p.m.

Chair: Bill Griesacker

Vice Chair: Daniel Blaydon

Secretary: Myron Bell

There were 98 attendees, 35 of 59 members and 63 guests were present at the meeting; 9 guests requested membership, 5 were granted, 7 members were moved to guest status, based on attendance. 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 approval of the agenda.
4. There were no objections to approval of the meeting minutes from the 2018 Spring meeting in Pittsburgh.
5. Task Force Report
  - a. TF, Factory PD Limits – Vinay Mehrotra

**The meeting was called to order at 3:15 PM. There were 112 participants and 55 of 82 members were present during the current meeting. Quorum was achieved. The agenda and minutes of the Pittsburgh meeting were unanimously approved. Chairperson provided background of the taskforce and read out new scope of the TF as follows:**

### Review and modify

**a) Induced-voltage test for Class II power transformers clause 5.10.5.5 of IEEE Standard for General requirements C57.12.00**

**b) Test procedure clause 10.8.2 and Failure detection clause 10.8.5 of IEEE Standard Test Code C57.12.90.**

**The motion was carried out for the new revised scope. First motion was approved by Vijayan and it was second by Hakim. Total 39 member favored the new revised scope of the TF during vote.**

Vinay motioned for the members of the TF for Continuous Revision to Low Frequency Tests approve the scope change as worded above. The motion was 2<sup>nd</sup> by Hugo Flores.

Steve Antosz commented that the TF for Factory PD Limits name should be changed for the next meeting, to clarify, based on the new scope.

28 approved  
0 Disapproved  
1 Abstention

6. Study Group

- a. PD in bushings during factory transformer testing – Dave Geibel

Proposed text to add to standard C57.12.90 Section 10.8.5:

*“If partial discharge is observed during the induced testing of the transformer and appears to be generated within an OIP bushing(s), it is permissible to “vent” the bushing(s) to atmosphere using the bushing manufacturer’s instructions to allow for the dissipation of gas bubbles in the oil. Gas bubbles sometimes form following a temperature rise test during cool down or may be present for other reasons. Reestablishment of the bushing gas space blanket and resealing of the bushing must also be performed in accordance with the bushing manufacturer’s instructions following completion of the induced test.”*

Dave Geibel motioned for the members of the TF to move this text to the Dielectric Test SC, for suggested addition to C57.12.90, section 10.8.5. The motion was 2<sup>nd</sup> by Hugo Flores.

30 approved  
1 Disapproved  
0 Abstention

7. Old business

- a. Tap changer position during induced test.

Bertrand Poulin reviewed the changes required to achieve 100% approval.

**Bertrand motioned to pass his report to the Dielectric Test SC, for inclusion into C57.12.90  
2<sup>nd</sup> from Dan Sauer**

**28 approve  
0 disapprove  
1 abstain**

This text will eventually be moved to the Low Frequency Test Guide, once complete.

- b. Applying pressure inside a transformer tank during induced test (survey results)

Steve Antosz presented text and results of the previous survey, reflecting 92% approval.

**Steve motioned to move the text to the Dielectric Test SC, for inclusion into C57.12.90  
2<sup>nd</sup> from Bertrand Poulin**

**29 approve  
0 disapprove  
3 abstain**

c. Clarification of measuring voltage during low frequency dielectric tests

Bertrand has not yet drafted a new proposal. He indicated he may need to delegate this to someone else, or suggested we simply refer to the wording in IEEE Std 4.

d. Class I transformer PD test – Don Ayers

Don Ayers was not present, so this topic was tabled until the next meeting .

e. Gassing issue for certain types of transformers with wound cores: proposal for new design test

Phil Hopkinson was not present to present the results of the previous survey

Dan Sauer gave a history of the topic, and voiced opposition to the current wording. Dan would like this topic to exclude transformers rated at 500 kVA and below.

Bertrand Poulin proposed that the latest survey results should be shared with the group, from Phil Hopkinson, prior to changing any text. The Chairperson agreed.

The chairperson suggested having a liaison between the LFDT TF and the Distribution XFMR SC, to ensure proper representation of the group that will be primarily affected.

8. New business

There was no new business.

9. Adjournment

Adjournment was at 3:00 pm