

TASK FORCE FOR REVISION TO LOW FREQUENCY DIELECTRIC TESTS

Columbus, OH – October 29, 2019, 1:45 p.m.

Chair: Bill Griesacker

Vice Chair: Daniel Blaydon

Secretary: Myron Bell

1. The meeting was called to order at 1:45 PM.
2. Attending members were counted and quorum was verified by the RFID system report, which is provided in summary below:

Attendance

	RFID
Total Attendees	97
Total # Of Members	58
Members Present	42
Quorum Present	72.4%

Note that paper rosters were not used at this meeting, however a signup sheet was provided to guests who wanted to request membership.

3. A motion was made to approve the meeting agenda by Akash Joshi, which was seconded by Dan Sauer. There were no objections to unanimous approval of the agenda.
4. A motion was made to approve the meeting minutes from the 2019 Spring meeting in Anaheim by Hugo Flores which was seconded by Phil Hopkinson. There were no objections to unanimous approval of the meeting minutes.

6. Old business

1. Class I Partial Discharge Testing – Don Ayers

Don presented a summary report on the TF meeting that occurred on Monday, and the results of his survey concerning test levels for class I partial discharge testing. Don's full report can be found in the attached annex.

2. Gassing issue for certain types of transformers with wound cores

The Chair presented the proposed changes concerning IEEE C57.12.00, Section 6.7.2.1 language, and additions to Table 17. The Chair then presented the proposed additions to C57.12.90, which would form sections 10.7.7, and 10.7.7.1 through 10.7.7.4.

Phil Hopkinson motioned to approve the proposal. The motion was seconded by Gary Hoffman.

The Chair requested a vote on the motion, the results of which are provided below:

24 Approved
6 Disapproved
10 Abstained

The motion passed

The new proposal will be submitted to 4 of the Sub Committees.

3. Factory PD Limit survey results

The Chair presented the proposed text changes concerning IEEE C57.12.90, Clause 10.8.5. All comments from “rejected” survey results were reviewed. Multiple comments requested an additional test, after the one-hour test, at 1.2 pu voltage, with measurements below 100 pC. This will not be added to the proposal at this time.

Ali Naderian motioned to vote on the proposed language, for submission to the Dielectric Test SC. The motion was seconded by Akash Joshi.

The Chair requested a vote on the motion, the results of which are provided below:

32	Approved
6	Disapproved
5	Abstained

The motion passed

The new proposal will be submitted to the Dielectric Test Sub Committee.

4. PD in bushings during transformer factory testing
A survey was conducted and results compiled, however the meeting was adjourned due to a lack of time to cover this topic.
7. New business
There were no new business items.
8. The meeting was adjourned at 2:59pm.

Appendix A

Minutes for Task Force on PD Testing of Class 1 Power Transformers

Document: Partial Discharge Testing of Class 1 Power Transformers
Chair: Don Ayers
Vice Chair: Javier Arteaga
Secretary: Israel Barrientos

Meeting Date: Monday 28th of October 2019
Time: 16:45
Attendance: Requesting membership: 36
Total attendance: 60

The meeting was called to order at 4:45 p.m. in the Morrow meeting room.

Meeting Agenda was presented and a motion by John Forcia was made to accept. It was seconded by Carlos Gaytan the vote was unanimous to accept.

Membership requirements were presented and it was indicated that everyone at this initial meeting was granted membership of the TF. Two paper rosters were handed out to the attendance for backup of the AMS and to request voting membership.

A Scope for the TF was presented. Carlos Gaytan asked about including Test Evaluation Criteria and Don Ayers responded that it is already included as a point to be discussed later.

John Foscia moved to accept the scope and Leopoldo Guerra seconded. After a brief explanation of what a Class I Power Transformer is, Carlos Gaytan asked if this scope was to include Distribution Transformer Wound core PD Testing. Chairman indicated that the current TF scope is only for Class I Power Transformers. After a brief discussion, the motion was modified slightly by a friendly amendment by Neil Kranich and Detlev Gross, it was voted and passed unanimously.

The next item in the agenda, the Enhanced Voltage Level was discussed. After a spirited discussion a motion was made by Neil Kranich and seconded by John Foscia that the Enhanced Voltage Level to be set at 200% of the Nominal System Voltage (NSV) as per Table 6, Col 6 of C57.12.00. After further discussion, the vote was 3 in favor, 22 against, thus the motion did not pass.

A new motion was made by Ajith Varghese and seconded by Neil Kranich, to set the Enhanced Voltage Level the same as for Class II Transformers. The motion passed unanimously.

The Voltage Level for the Extended Time Test was discussed. A motion by Gross and seconded by Kranich to keep the voltage level of the extended time test at 1.58 NSV, the same as Class II transformers. After no further discussion the motion carried unanimously.

Length of Time of the extended test was discussed. A motion was made by Gross and Guerra seconded, to maintain the 1 hour at 158%, identical as Class II transformers. After a brief discussion, the motion passed unanimously.

The next item in the agenda, Voltage Level for First PD Reading. Kranich and Gross moved and seconded a proposal for first reading to be at 158% of NSV for first PD reading level. The motion was voted and passed unanimously.

Acceptance Levels was the last item on the agenda to be dealt. Kranich motioned that we use the same PD acceptance criteria as in 10.8.5 of C57.12.00, Gross seconded this motion. Gamboa indicated that this levels needed to be reviewed by the WG for Distribution Bushings, and a Liasion with this group should be made. After a long discussion by Arteaga, Gross, Ayers, Gamboa, Varghese and Mollenkopf, the motion was amended to "Use a Separate Paragraph but retain the wording from Paragraph 10.8.5."

As time ran out, a vote was not held, and will be discussed at the next scheduled meeting. This is expected to take place in Charlotte N.C. in March 2020.

The presentation will be made available in the TC Website.

Meeting was adjourned on time at 18:00 Hrs.

Submitted by: Israel Barrientos
Date: 28/Oct/2019