

WG PC57.19.01 - IEEE Standard Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings

MINUTES OF WORKING GROUP MEETING – S15 San Antonio, TX

The working group met on Tuesday, April 14, 2015 at 8:00 am. Of those, 17 members and 38 guests with a total of 55 participants in attendance. Working Group membership is currently 30 members therefore a quorum was achieved.

The following three guests requested membership and zero were granted member status:

Name	Number of recent meetings (3 recent needed for membership)	Member Status Change
Weijun Li	2	Need 1 more meeting
Mark Rivers	2	Need 1 more meeting
David Geibel	2	Need 1 more meeting

1. Introductions and Distribution of Attendance Rosters
 - a. Attendance rosters were circulated.
 - b. The committee officers were introduced (chair and secretary).
 - c. Introductions of attendees and their affiliations were made.
2. Establishment of Quorum
 - a. A count was performed and a quorum was established as 17 of 30 members were present.
3. Minutes Approval
 - a. Discussion regarding “Power Factor Test Voltage” in the minutes for F14. There is an inconsistency between 19.00 and 19.01 regarding test voltage. This is out of scope for this standard. Shibao Zhang would like to defer this to Bushing Subcommittee for decision and path forward. The lowest voltage being considered is 25 kV so line-to-ground will be above the 10 kV so 10 kV would be the test voltage. Since this point was brought up as new business at the F14 meeting and not discussed due to time limit as reported the minutes will remain with this statement.
 - b. Draft meeting minutes for F14 Metro DC minutes were displayed on screen for a couple of minutes. Since we had a quorum a vote was taken and the minutes were approved. 14 of 17 members approved the minutes as written after some discussion about item 5 under new business.
4. Old Business
 - a. Shibao shared a proposed timeline of activity. Comments to date have been incorporated in a draft that was shared in advance of the meeting. A couple of comments were received in advance of this meeting. Discussion during this working group continued to include the following items:
 - i. **Regarding the title:** Power Apparatus versus Power Transformers...apparatus such as reactors are covered. Perhaps some improvement could be made to say IEEE Standard Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings. Peter Zhao suggested some discussion with other bushing working groups to coordinate. A motion was made and seconded to change the title to “IEEE Standard Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings.” 14 members present of 17 approved this motion.

- ii. Regarding the scope: BIL was changed from 200 kV to 150 kV and limited current rating to 5000 A or less and oil-filled to liquid filled. The last sentence referring to circuit breaker bushings was removed. There was discussion about removing the 5000 A limit to include performance characteristics for those above 5000 A even though dimensions will not be provided for bushings above 5000 A. A motion was made and seconded to remove the 5000 A limit from the scope. Also recommendation was made to remove “outdoor” from scope since it was removed from the title. With these changes included an overall motion was made and seconded to approve the scope as revised on the screen, 14 members approved this motion.
 - iii. “Outdoor” was removed from the title so what about bushings not in free air (e.g. enclosure)? C57.19.04 scope will include 5000 A and above but bushings below 5000 A and in enclosures are not included in either standard at this time. This is understood and could be accommodated later.
 - iv. Table 1 title will be updated to align with the updated title and scope wording the working group approved today.
 - v. JD Brafa’s comment submitted in advance of the meeting was discussed regarding creep distance. Is there a reason not to go back to the historical ratings? The suggestion was made to remove the lower rating of line to ground plus 10% and go back to the 1991 values to lessen the risk to users misapplying a bushing.
- b. Shibao requested that additional review comments will be welcomed between now and next meeting.

5. New Business

- a. None

6. Adjournment

- a. Meeting was adjourned at 9:15 am.

Minutes by: David Wallach, WG Secretary.

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Hyatt Regency San Antonio Riverwalk