

# PC57.19.00 - WG for the Revision of IEEE Standard General Requirements and Test Procedure for Power Apparatus Bushings

11:00 AM to 12:15 PM, Monday October 15, 2018  
Hyatt Regency Hotel, Jacksonville, Florida USA

## *Unapproved Meeting Minutes*

WG Chair Peter Zhao presided over the meeting, with Eric Weatherbee as Secretary. Introductions were made, and meeting rosters were circulated to record the attendance.

Total Attendance	58
Members in Attendance	23 out of 57 members, no quorum
Guests in Attendance	35
Guests Requesting Membership	6

The WG Chair noted that 56 comments have been received from the volunteer review group. At our current rate of review and disposition of 4-5 per meeting it will take approximately six years to complete. The Chair asks all participants to review the comments that are hosted on the website prior to the meeting to increase our pace of disposition. The Chair has a target date of 2020 to have a completed Draft.

The meeting focused on review of the comments received from the review group with the attendees. The following is a summary of those discussions and resulting disposition or follow up action to be taken:

**Review Section: 4. Service Conditions: Page 5, Subclause 4.1, Line 30 – Comment:** add 105°C maxi temp limit.  
**Proposed Change:** Add: and does not exceed 105°C maximum.

Discussion, disposition, and/or follow up action:

- After much discussion the group decided to add the following:
  - 105°C maximum oil temperature in contact with the bushing over a 24-hour period

**Review Section: 4. Service Conditions: Page 5, Subclause 4.1, Line 31 – Comment:** add temperature limit for bottom terminal connection, say, 105°C maxi temp. **Proposed Change:** Add: - The bottom terminal and lead connections do not exceed a 105 °C.

Discussion, disposition, and/or follow up action:

- Sebastien Riopel noted that IEC 60137-2017 has a table with temperature limits.
- Matthew Weisensee stated that the temperature of turret should be considered.
- It was decided that a Study Group would investigate the issue with a review of the IEC table and provide a suggested disposition by the next meeting.
  - Dave Geibel volunteered to be the lead for the Study Group. Additional volunteers: Juan Castellanos, Bruno Mansuy, Ryan Musgrove, Egon Kirchenmayer, Amitabh Sarker, Matthew Weisensee, Shibao Zhang and Peter Zhao.

**Review Section: 3. Definitions: Page 2, Subclause 3.1, Line 25 – Comment:** Ambient should be clearly the temperature outside any bus duct or enclosure. **Proposed Change:** Add: ... the surrounding air in contact with the apparatus onto which the bushing is mounted, not inside bus ducts or enclosures.

Discussion, disposition, and/or follow up action:

- Accepted for addition by those in attendance.

**Review Section: 3. Definitions: Page 3, Subclause 3.4, Line 6 – Comment:** Some bushings are horizontal and have no “bottom end” **Proposed Change:** Change to suitable connector at the inboard end of the bushing for the transfer of current.

Discussion, disposition, and/or follow up action:

- Accepted for addition by those in attendance.

Meeting was adjourned.

Respectfully Submitted,  
WG Secretary Eric Weatherbee