

**MINUTES OF MEETING
BUSHING SUBCOMMITTEE
OF THE
IEEE/PES TRANSFORMER COMMITTEE
Orlando, Florida
October 17, 2001**

A. Introduction and Membership

Acting Chairman, Keith Ellis opened the meeting at 3:00 PM and welcomed the members and guests. Eight members and 21 guests attended the meeting. Four requests for membership were received. See attachment for membership list.

B. Chairman's Remarks

The acting chair reviewed the highlights of the Administrative Subcommittee meeting held October 14th at 2:00 PM. The main items included the schedule for the next meeting to be held in Vancouver, BC 2002 April 14-18th.

Additionally, it was discussed that in order to ballot the bushing standards you had to be a member of the Standard Association and if you are a member it is advisable to verify that your current email address is in the SA data base. You can do this by going to: <http://standards.ieee.org/db/ballotform.html>.

Other items covered in the Administrative Subcommittee meeting will be detailed in the Transformers Committee meeting minutes.

C. Approval of Minutes of April 11th, 2001 Meeting

The minutes were approved as written.

D. Working Group / Task Force Reports

D1. WG on General Requirements and Test Procedure For Power Apparatus Bushings (C57.19.00)

Keith Ellis reported that his WG met on October 16, 2001 at 1:45 PM with 11 members and 16 guests present. One request for membership was received. He reported the following:

1. Approval of Last Meeting Minutes

The minutes were approved as written.

2. Discussion on Comments Received on PC57.19.00 Draft 5 from the survey of the Bushing Subcommittee was under taken. There were 10 pages of comments generated and all 10 pages were discussed during the meeting. There were a few unresolved items but it was agreed that these would be resolved by correspondence by the end of November 2001. If these items are successfully resolved the document would be sent to the IEEE Project Editor for editing and then to the SA for final ballot. If the open items cannot be resolved they will be held over until the April 2002 meeting

3. New Business

- . There was no new business

4. Adjournment

The meeting was adjourned at 4: 30 PM after two sessions.

D2. Task Force on Draw-Lead Bushings

Russ Nordman reported that his Task Force meeting was held at 11:00 AM on October 16, 2001 with 5 members and 8 guests present. No requests for membership were received. He reported the following:

1. Approval of Last Meeting Minutes

The minutes were approved as written.

2. The attendance list for the TF has been updated, copies made available upon request.

3. Members were asked to report on their review of Draft 1 proposal. One report was received. The draft is intended to be included in the Bushing Application Guide as a method for manufacturers to conduct thermal testing on drawleads. Initial conditions and temperatures limits will be defined. They were asked to submit suggested data by the end of the year.

4. Completion of this Task Force was discussed. Anticipate 2002 for draft proposal to Bushing Subcommittee.

5. Adjournment

The meeting was adjourned at 11:45 AM

E. Report from Technical Advisor to IEC 36 A

Russ Nordman reported the following:

1. IEC 62199: "Bushing for DC application". Draft has been circulated for discussion in the October 19 IEC meeting.
2. IEC 60137: "Bushings for AC voltage above 1 kV". Work will be extended to include composite insulator, routine BIL and AC duration tests.
3. IEC 61639: "Direct connection – Transformer to GIS". Guide for dimension on gas side of bushing. Postponed for now.

F. Old Business

1. Keith Ellis brought up a possible issue from the WG on PC57.19.00. The WG agreed that bushing nameplates are to include the bushing weight but did not discuss what weight to use, English or Metric. For safety reason it as proposed that English pounds would be required. A vote of the members and guest present was taken and the by majority vote was accepted.
2. Keith Ellis reported that in another Dialectic Subcommittee in was agreed that altitude correction factors would begin to be applied starting at 1000 meters. This would make the table in C57.19.00 correct.

F1. Reaffirmation/Revision of C57.19.100

Keith Ellis reported that on the recirculation ballot one additional negative ballot was received. This will also be address by the Bushing Subcommittee.

F2. C2 Measurement Study Group

No new information has been received.

G. New Business

Russ Nordman attended the new WG on Webpage development and reported that each Subcommittee should have a permanent Webpage. This would allow Bushing Subcommittee work to be placed on the Transformers Committee Webpage on a regular basis.

G1. Future Meeting Topics

The following proposals were discussed.

1. Standards for “Bulk Type Bushings”
2. Line terminals for dead tank SF₆ circuit breakers.
3. Transformer to GIS bushings

H. Adjournment

The meeting was adjourned at 4:00 PM

Minutes Submitted By,

Pritpal Singh, Secretary Bushing Subcommittee

Attachments - Attendance sheets

Copies:

Members and Guests,

Secretary transformer committee

George Vaillancourt for Website