

**SWITCHGEAR ASSEMBLIES SUBCOMMITTEE
MINUTES OF THE SPRING 2006 MEETING**

**SAN LUIS RESORT
GALVESTON, TEXAS**

The meeting was called to order by acting Chair, T. Olsen, at 3:45 PM on May 10, 2006 with the introduction of the following members and guests:

Members:	P. Barnhart T. A. Burse P. Dwyer	D. J. Edwards S. S. Gohil A. Livshitz F. Mayle	D. Mazumdar W. C. McKay A. Morgan P. Notarian	T. W. Olsen J. E. Smith M. Wactor
Guests:	M. Abrahamsen J. Baskin S. Benson D. Colaberardino D. Dunne	L. Farr W. Fernihough M. Flack K. Flowers N. Gunderson	T. Hood H. Josten C. Lam S. Meiners A. Morse	M. Orosz C. Schneider C. Taylor J. Wiseman A. Wilson
Excused:	C. J. Ball E. R. Byron J. J. Dravis	J. E. Jerabek W. E. Laubach D. J. Lemmerman	G. R. Nourse R. J. Puckett	S. H. Telander
Absent:	R. K. Iyer	E. A. Peters	G. Sakats	

The minutes of the Fall 2005 Switchgear Assemblies Subcommittee meeting at the Omni Mont Royal Hotel, Montreal Quebec, Canada were accepted as distributed.

ADSCOM Report

ADSCOM Committee Report: Mr. Olsen reported that:

- C37.100 – We will need a representative of Switchgear Assemblies subcommittee to the C37.100 working group. Randy Dotson will head this effort.
- C37.100 – Switchgear Committee will formally request that IEEE-SA convert C37.100 to a compendium of definitions from approved documents, instead of a standard.
- Capacitor Switching Task Force – An effort to create a “common clauses” sort of document that combines all common issues relative to capacitor switching for all devices. Neal McCord will chair.
- Metric – Transformer Committee has encountered rather radical interpretations of the metric rules from SCC14. They have issued a formal request to the IEEE-SA Standards Board to rein in the actions of SCC14, and ADSCOM agreed to support the Transformer Committee’s position.
- MyBallot is morphing into MyProject, and will evolve further in the future. There will provide much more functionality and will significantly improve the way we conduct business.
- Standards requiring action in 2006
 - C37.20.3: Request for reaffirmation ballot submitted May 9.
 - C37.20.4: Request for reaffirmation ballot submitted May 9.
 - C37.121: IEEE-SA may take the position that this document must be revised, since it was first approved by ASC C37 / ANSI in 1989. If they will allow, we will initiate reaffirmation ballot. Otherwise, we will have to submit a PAR and initiate a revision.

- Discussion of standardization of front matter in standards sponsored by the Switchgear Committee, first proposed in Fall, 2006. It was agreed that this will be discussed again at the main committee meeting.

WORKING GROUP REPORTS

The following working group reports were presented:

- C37.20.1a: (Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear -- Amendment 1: Short-Time and Short-Circuit Withstand Current Tests; Minimum Areas for Multiple Cable Connections) – T. Burse. Approved by IEEE-SA Standards Board on Sept. 22, 2005. Approved by ANSI on Dec. 29, 2005. Published on Dec. 30, 2005. The working group is now disbanded.
- C37.20.1b: (Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear Amendment 2: Additional Requirements for Control and Auxiliary Power Wiring in dc Traction Power Switchgear – T. Burse. Members of Vehicular Technology Society – Rail Group participated. Consensus on comments reached. New input should be received by June 5, 2006 and a new draft will be out for comments by June 15, 2006. A motion was made by the WG for the SA committee to consider separating the LV dc requirements in C37.20.1 from the ac requirements and create C37.20.8 for dc switchgear. A Task Force to review separating the LV ac and LV dc was formed and includes T. Burse, G. Nourse, and D. Mazumdar. Inform T. Burse if you are interested in joining this Task Force.
- C37.20.2: (Standard for Metal-Clad Switchgear) – M. Wactor. Document revision will reflect changes necessary to coordinate with the ongoing changes in related documents, including C37.100.1, C37.04, C37.09 and others. Each clause was assigned for review. Input should be submitted to M. Wactor by August 1, 2006. He will consolidate the comments and suggestions and distribute a new draft before the fall 2006 meeting. A PAR will be submitted for approval.
- C37.20.6: (Standard for 4.76 kV to 38 kV Rated Grounding and Testing Devices Used in Enclosures) – T. Burse. A PAR was approved Dec. 7, 2005. The Working group met for the first time. The intent is to use normative references to C37.100.1 to the extent reasonable. Review of specific clauses were assigned
- C37.20.7: (Guide for Testing Metal-Enclosed Switchgear rated 1kV through 38kV for Internal Arcing Faults): The D11 recirculation ballot closed April 15, 2005. There were 8 negatives. All but two negatives were resolved. The document is with RevCom for approval.
- C37.21 (Control Switchboards): Published Dec. 1, 2005. The working group is now disbanded.
- C37.100.1 (Common Clauses) – T. Burse (for D. Stone): All negative ballots have been resolved including altitude factors. The document will be recirculated one more time around mid June 2006.

OLD BUSINESS

- IEEE 1247 was approved by IEEE-SA Dec. 7, 2005 and should be published in mid-2006. Then C37.20.3, C37.20.4, and C37.22 MEI Switchgear and related standards can be revised.
- MV GIS Application Guide – P1663 (Guide for the Application of Medium Voltage Gas-Insulated Substations 1kV to 52kV) -- (T. Olsen) – The Substation Committee has initiated a

project (PAR approved 12-August-2004) to create a MV GIS Application Guide. T. Olsen will be on the working group, and T. Burse will also monitor.

- IEC Activities (SC 17C MT14) – L. Farr provided an update.

IEC 60298 (62271-200)	AC Metal-Enclosed Switchgear and Controlgear for Rated Voltages above 1 kV and up to and Including 52 kV. T. Burse is comparing this document with C37.20.2.
IEC 60466 (62271-201)	AC Insulation-Enclosed Switchgear and Controlgear for Rated Voltages above 1kV and up to and including 38kV. USA approved document.
IEC 60932 (62271-304)	Additional Requirements for Enclosed Switchgear and Controlgear from 1 kV to 72.5 kV to be used in Severe Climatic Conditions. Ken Geltman is working on this document.
IEC 61330 (62271-202)	High-Voltage / Low-Voltage Prefabricated Substations. This document has been approved.
IEC 61958 (62271-206)	High-Voltage Prefabricated Switchgear and Controlgear Assemblies – Voltage Presence Indicating Systems

- ASC C37: Documents under ASC C37 responsibility are current. Ballots will be issued shortly for:
 - Reaffirmation of C37.50.
 - Revised operating procedures to reflect new ANSI Essential Requirements.
 - A revision effort on C37.50 will be initiated when C37.13 revisions are firmed up.

NEW BUSINESS

- C37.04b HCB Transient Recovery Voltage is out for forming a ballot pool. There is a concern about the effect it will have on Medium Voltage breakers such the large amount of information required on the nameplate and the differences between cable and line connections to breakers. SA members may want to join the ballot pool for this document.
- IEEE-SA: Use of MyBallot requires internet access and electronic communications ability, and also requires an IEEE Web Account. Paper ballots are no longer permitted.
- IEEE-SA patent policy: The IEEE-SA patents policy must be reviewed during every working group meeting. The patent materials are available at <http://standards.ieee.org/board/pat/pat-lideset.pdf>.
- **Procedure for Meeting Rooms!** Meeting arrangements must be made through the Subcommittee Chair. Working Group chairs, advise the Subcommittee Chair of your working group room requirements (preferred dates, number of sessions (one session = 1 hr 45 min), number of persons expected, and A/V needs). The Subcommittee Chair must send the WG needs to the Committee Secretary at least 10 weeks before the next meeting. So, WG chairs advise Ted Olsen by July 24, so Ted can advise Bill Long by July 31.

- Working Group chairs, give changes to your working group memberships to A. Morgan by the end of the meeting, and provide electronic copies of WG reports to A. Morgan at the end of the meeting today.
- Switchgear Main Committee—items to be reported verbally during the main committee meeting were reviewed.
- Future Meetings:

Oct. 1-5, 2006	Hyatt Regency, Milwaukee, WI
Spring 2007	St. Pete Beach, FL
Fall 2007	Philadelphia or Pittsburg, PA
Spring 2008	Las Vegas NV or Portland OR
Fall 2009	

The meeting adjourned at 5:00 PM.

Minutes submitted by:

A. F. Morgan
Secretary