

**SWITCHGEAR ASSEMBLIES SUBCOMMITTEE
MINUTES OF THE SPRING 2008 MEETING
Rev. 1
CORONADO SPRINGS RESORT
ORLANDO FLORIDA**

The meeting was called to order by Chair, T. Olsen, at 1:40 PM on May 21, 2008 with the introduction of the following members and guests:

Members (19):	C. Ball P. Barnhart T. Burse E. Byron P. Dwyer	D. Edwards L. Farr D. Gohil D. Lemmerman A. Livshitz	F. Mayle D. Mazumdar A. Morgan A. Morse T. Olsen	J. Smith A. Storms P. Sullivan M. Wactor
Guests (19):	M. Ceglia W. Cheng D. Colaberardino J. Coomer L. Davis	E. Dullni N. Gunderson R. Hartzel R. Jackson H. Josten	T. Meeks A. Patel I. Profir C. Tailor P. Terry	J. Toney J. Webb T. Williams D. Yek
Excused (7):	J. J. Dravis K. Flowers	J. Jerabek(CM) W. Laubach W. McKay	G. Nourse E. Peters	R. Puckett D. Smith

Absent (0):

The IEEE-SA rules on Patents were reviewed prior to further discussions. All five slides were shown. An opportunity was given for participants to identify patent claims, patent applications, and/or holders of patent claims/patent application claims that may be essential for the use of a standard. There were no responses. The IEEE-SA patents policy must be reviewed during every working group meeting. The rules can be accessed on <http://standards.ieee.org/board/pat/pat-slideset.pdf>.

The minutes of the Fall 2007 Switchgear Assemblies Subcommittee meeting at Philadelphia PA were approved.

STANDARDS STATUS AND WORKING GROUP REPORTS

- C37.20.1, 1a, 1b (Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear) - T. Burse – All documents were reaffirmed 9/27/2007 and accepted by ANSI 3/24/2008. A Task Force will prepare a gap analysis to determine if the DC traction items should be removed from this standard. A recommendation will be ready by the fall 2008 meeting.
- C37.20.2: (Standard for Metal-Clad Switchgear) - M. Wactor – Task forces are investigating seismic testing and flame resistance testing. A PAR will be requested in the next few weeks. Question was raised on matching the numbering in C37.20.2 with the numbering in the Common Clauses C37.100.1. This is a question that concerns all the C37.20.x standards. M. Ceglia will raise this question with the Standards Association.
- C37.20.3 (Standard for Metal-Enclosed Interrupter Switchgear) - C. Ball – Until advised otherwise, the Standard is being renumbered in accordance with C37.100.1 Common Clauses. Seismic requirements and other submitted comments were discussed.
- C37.20.4 (Standard for Indoor AC Switches (1kV – 38kV) for Use in Metal-Enclosed Switchgear) – C. Ball – Until advised otherwise, the Standard is being renumbered in accordance with C37.100.1 Common Clauses. Discussion of Design Tests was completed through clause 6. Comments discussion on the remainder of clause 6 and clause 7 will be completed by email before the fall 2008 meeting.
- C37.20.6: (Standard for 4.76 kV to 38 kV Rated Grounding and Testing Devices Used in Enclosures) – T. Burse – The Working Group is disbanded.

- C37.20.7: (Guide for Testing Medium-Voltage Metal-Enclosed Switchgear for Internal Arcing Faults) - M. Wactor – A PAR will be submitted to start a corrigendum to correct technical errors in the Testing Clause.
- C37.20.8 T. Burse requested this standard number be kept for the future.
- C37.23 Metal Enclosed Bus – T. Olsen - This standard does not include cable duct. This needs to be considered at a future time. The reaffirmation ballot was successful and it will be considered by RevCom at the June 11, 2008 meeting.
- C37.24 Guide for Evaluating the Effect of Solar Radiation on Outdoor Metal-Enclosed Switchgear – T. Olsen – The reaffirmation ballot was successful and it will be considered by RevCom at the June 11, 2008 meeting..
- C37.59 (Requirements for Conversion of Power Switchgear Equipment) – P. Dwyer - This Standard has been published. Comments are saved in MyBallot for consideration on next revision.
- C37.81 Seismic Qualification of Class 1E Metal-Enclosed Power Switchgear Assemblies and C37.82 Qualification of Switchgear assemblies for Class 1E applications in Nuclear Power Generating Stations – T. Olsen - SC-2 of the Nuclear Power Engineering Committee has offered to take responsibility for these Standards. These standards cover nuclear and other switchgear issues, so responsibility should remain with the Switchgear Committee. Help from the Nuclear Committee would be welcome, but not co-sponsorship. Work on the two documents should start 2010 and 2009 respectively.
- C37.121-1989 (R2000) Unit Substations - J. Smith will chair this Working Group. The Working Group will consist of T. Burse, L. Farr, D. Gohil, A. Livshitz, T. Olsen, D. Mazumdar, P. Sullivan and C. Taylor. M. Ceglia was requested to provide a “word” version of the document. Figures should be sent out for comments and redrawing started by fall 2008 meeting.

OLD BUSINESS

- MV GIS Application Guide – P1663.1 (also know as PC37.122.2) Guide for the application of Medium Voltage Gas-Insulated Substations 1kV to 52kV – T. Olsen has a copy of the document. It is not ready for balloting.
- IEC activities – T. Burse - IEC 60298 (62271-200) AC Metal-Enclosed Switchgear and Controlgear for Rated Voltages above 1 kV and up to and Including 52 kV – The fifth meeting was held March 4-5 in Houston. The sixth meeting will be held in Paris the first week of June 2008. A CPV will be circulated to the NCs after the Paris meeting.
- ASC C37 – Status not changed. Once the Electric Power and Light delegation is reconstituted, voting will commence on the new operating procedures, C37.50 Low Voltage AC Power Circuit Breakers Used in Enclosures –Test Procedures, and C37.51 Metal-Enclosed Low-voltage AC Power-Circuit Breaker Switchgear Assemblies – Conformance Test Procedures. There is a deadline for finalizing the operating procedures. C37.51 needs to be approved or it will be administratively withdrawn.

NEW BUSINESS

- A query was received from IEEE-SA concerning ventilation openings with flaps, between cubicles. C37.20.2 Metal Clad Switchgear disallows intentional openings in the barriers between primary sections. The Working Group considered this a question, not an interpretation and the flaps as described do not meet the requirements of C37.20.2. M. Wactor will draft a response to T. Olsen who will then submit it to IEEE-SA.
- M. Wactor is working with M. Ceglia to update the Working Group rosters on the MyBallot site. All Working Group chairs must check themselves in to the roster and then provide M. Wactor their log in name so he can complete the registration. Working group members are encouraged to sign up on MyBallot. This site is different from the AMS used for registering.
- L. Farr and K. Flowers were voted new members of the Switchgear Assemblies Subcommittee. S. Telander has resigned from the Switchgear Committee. New members for the Main committee have been recommended.
- **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 9, 2008 so Ted can advise Ken Edwards by July 30, 2008.

- 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. 12-16, 2008 Calgary, Canada
 - Spring 2009 (late April or early May) Asheville NC
 - Fall 2009 Seattle, Arizona, Las Vegas, Denver???
 - Spring 2010 St. Pete BeachIf you would like the IEEE Swgr Committee to come to your city, please contact Ken Edwards or Bill Long

The meeting adjourned.

Minutes submitted by:

A. F. Morgan
Secretary