

**SWITCHGEAR ASSEMBLIES SUBCOMMITTEE
MINUTES OF THE Spring 2012 MEETING**

**Trademark Hotel, St. Pete Beach, FL USA
May 2, 2012**

The meeting was called to order by Chair, J. Smith, at 1:30 PM on May 2, 2012 with the introduction of the following members and guest:

Attendance

Members: Total 33 - 23 present, 9 absent (6 excused) – Quorum was met.

Members Present:

C. Ball	D. Edwards	S. Hutchinson	A. Morse	C. Taylor
P. Barnhart	L. Farr	H. Josten	T. W. Olsen	M. Wactor
R. Bugaris	M. Flack	A. Livshitz	A. Patel	R. Warren
T. A. Burse	K. Flowers	F. Mayle	C. Schneider	
E. R. Byron	S. S. Gohil	D. Mazumdar	J. E. Smith	

Members Absent:

J. Baskin*	M. Lafond*	M. Orosz	H. Song*	J. Toney
J. Earl	D. Lemmerman*	E. Peters*	P. Sullivan*	* = Excused

Guests:

M. Cannady	P. Gingrich	R. Hartzel	A. Jur	A. Rowell
C. Carne	D. Giraud	T. Hawkins	C. Kennedy	J. Shullaw
J. Cox	P. Glaesman	D. Hrcir	S. Meiners	M. Williford
D. Dunne	M. Glinkowski	R. Jackson	J. Mizener	
D. Elliott	L. Grahor	J. Joseph	D. Moser	

1. Approval of Meeting Agenda

Motion to approve agenda by L Farr, 2nd by T. Burse, and approved.

2. Introduction of members and guests

Members and guest introduced as recorded above.

3. Review of IEEE – SA patent policy. The patent materials are available at

<http://standards.ieee.org/board/pat/pat-slideset.ppt>.

4. Approval of the SA meeting minutes

Link: <http://www.ewh.ieee.org/soc/pes/switchgear/F11Minutes/F11SAmi.pdf>

Minutes (F11SAmi.pdf) from the fall 2012 meeting from Nashville, TN were approved.

Motion to approve by C. Morse, 2nd by C. Ball, and approved.

5. Update Document Status

D. Edwards: The document status document was distributed to WG Chairs and returned for updates during the meeting. Document status will be published with minutes from this meeting.

6. Working Group Status Report

a. PC37.20.8 Task Force

T. Burse: Ted presented a PowerPoint (PPT) presentation summarizing issues. Minutes are provided.

Discussions and Actions:

PAR expires December 31, 2013.

T. Burse attended TPSSC meetings in April 2012 and discussed C37.20.8 per the motion made at the fall meeting held in Nashville. An alternative option was proposed by TPSSC to change the scope of 20.8 to include all dc assemblies from 800 to 3200V and create an annex specific to equipment supplied for use in traction power Substations. Two additional alternatives were proposed at the WG meeting. The proposals were as follows.

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1. Accept TPSSC Proposal, Revise 20.8 Par
2. Segregate dc Completely from 20.1, Revise 20.8 Par
3. Revise 20.1, Revise PAR for 20.8 to form Traction Power Application Guide.

After much SA S/C discussion, the consensus was to move forward with third option.

Motion by L. Farr, 2nd by E. Byron, motion was approved with all in favor except one abstention.

Motion: Recommend that Ted Burse move forward with Option 3 which is, "Revise C37.20.1 and have C37.20.8 become an Application Guide with PAR written by SA and Co-Sponsorship of this document with TPSSC."

T. Burse offered to attend next TPSSC meeting (September 2012 in Chicago) to communicate SA S/C decisions from this meeting.

Follow-up discussion: Intentions are to have at least the initial working group meetings held with the TPSSC meeting and maybe request alternative meeting locations with PES and TPSSC.

Actions for SA S/C: None

- b. C37.20.2** Standard for Metal-Clad Switchgear
M. Wactor: Minutes are provided.

Actions for SA S/C: Motion to extend PAR. C. Ball motion, 2nd T. Burse, unanimous approval.

- c. C37.20.3** Standard for Metal-Enclosed Interrupter Switchgear
C. Ball: Minutes are provided.

Resolution of comments is in process. Schedule is to issue recirculation ballot prior to Fall 2012 meeting.

Actions for SA S/C: None

- d. C37.20.4** Standard for Indoor AC Switches (1kV – 38kV) for Use in Metal-Enclosed Switchgear
C. Ball: Minutes are provided.

Resolution of comments is in process. Schedule is to issue recirculation ballot prior to Fall 2012 meeting.

Actions for SA S/C: None

- e. C37.20.7** Guide for Testing Medium-Voltage Metal-Enclosed Switchgear for Internal Arcing Faults
M. Wactor: Minutes are provided.

Actions for SA S/C: None

- f. PC37.23** Task Force

T. Hawkins: Minutes are provided.

Motion made requesting approval to submit PAR for C37.23. Scope and Purpose statement (draft from 5/2/2012 WG meeting) were shown for review and discussed.

Motion by Task Force (vice-Chair T. Hawkins), 2nd by L. Farr, unanimously approved

Motion: Request PAR for C37.23.

Actions for SA S/C: Motion to request PAR

- g. C37.121** Guide for Switchgear – Unit Substation – Requirements

J. Smith: Minutes are provided. Document will be submitted to IEEE without changes.

Actions for SA S/C: None

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7. Old Business

- a. **IEC activities** – Liaison representative of the IEEE PES Switchgear Committee to SC 17C MT 14
T. Burse: 62271-200 is published. Nothing further to report.
- b. **ASC C37** – General update
T. Olsen: NEMA C37.50 was approved February 2012. Publication is pending. C37.57 and C37.58 will initiate revision subsequent to pending balloting for C37.20.3 and C37.20.4 respectively.
- c. Task Force Report on Other Enclosure Finishes
C. Ball: Paint finish text was updated in C37.20.3 draft. These details were not included in the balloted C37.20.3 document but will be included in upcoming recirculation ballot. Text will be provided to C37.20.2 chair (M. Wactor). This covers various metals (stainless steel, aluminum, and galvanizing) and various finishes. After successful balloting of C37.20.3, other document revisions as they come up should plagiarize, as applicable, this text.
- d. **ADSCOM** – Switchgear Committee Policies and Procedures for Standards Development
J. Smith: Summary of the P&P revisions that were presented by IEEE (E. Spiewak) during Tuesday breakfast meeting were presented. Slides of this PPT were shown detailing three (3) options. The results of these discussions will be presented at the Main Committee meeting.

8. New Business

a. Arc Fault Mitigation Systems

J. Smith: Request received for discussion of Arc Fault Mitigation and what actions if any SA S/C should take.

Summary of Discussion:

Question asked, what are “mitigating systems?” Arc Resistant switchgear is one solution. Other solutions include active mitigation system such as so-called “crowbar” systems, or systems to reduce the time of arc energy such as fuses or light-sensing systems.

The testing of details is covered by C37.20.7. However, the issue of validation of the non-Switchgear mitigating devices or solutions is an issue.

The issue is that the mitigating device themselves do not have standards for these devices. Currently though the testing of a mitigating device requires the device must be tested in conjunction with the Switchgear per the C37.20.7 guidelines.

The standards associated with the mitigating devices would likely be outside the SA S/C standards (C37.20.7). The other locations could be with Relay group or maybe LVSD (e.g. C37.17) but not under SA S/C except per the testing requirements in C37.20.7.

No conclusions were reached.

b. ADSCOM – Items for SA S/C chair to discuss at ADSCOM meeting

J. Smith:

- Request input from AdsCom for recommendations concerning ballot pool balancing of interest groups.

c. C37 Documents – Required action – review of proposed “SA Document Status” report.

D. Edwards: Various status updates provided via markup to document which was passed around to WG chairs. This updated document is included with these minutes.

d. Main Committee Meeting Items – Review items to be presented

J. Smith:

- PAR extension for C37.20.2
- PAR for C37.23

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e. Procedure for Meeting Rooms

D. Edwards: Request to WG Chairs, advise the Subcommittee Secretary concerning WG meeting room requirements (preferred dates, number of sessions (one session – 1 hr 45 min, number of participants expected, and A/V needs) no later than Friday, May 4, 2012.

f. Working Group Minutes

D. Edwards: Working group chairs should have their minutes emailed to Subcommittee Secretary no later than Friday, May 4, 2012, for publishing on the website.

Email address: doug.edwards@ieee.org

g. Upcoming Meetings:

Fall 2012	San Diego, CA	Sept. 30 – Oct. 4, 2012
Spring 2013	Galveston, TX	April 28 – May 2, 2013
Fall 2013	San Antonio, TX	Sept 15 – Sept 19, 2013
Spring 2014	Disney Contemporary	May 4 – May 8, 2014
Fall 2014	Portland, OR (pending contract with hotel)	
Spring 2015	St. Pete Beach, FL (pending contract with hotel)	

9. Adjourn

Meeting adjourned at 3:15 PM.

Reported by:

Doug Edwards
Switchgear Assemblies Sub-Committee Secretary
May 3, 2012