

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

**Catamaran Resort, San Diego, CA USA  
October 3, 2012**

The meeting was called to order by Chair, J. Smith, at 1:30 PM on October 3, 2012 with the introduction of the following members and guest:

**Attendance**

Members: Total 36 - 24 present, 8 absent (5 excused) – Quorum was met, 25 Guest

**Members Present (Affiliation):**

C. Ball (S&C)	S. Hutchinson (Shallbetter)	T. W. Olsen (Siemens)
J. Baskin (Federal Pacific)	H. Josten (Siemens)	M. Orosz (Schneider)
E. R. Byron (Schneider)	M. Lafond (GE)	A. Patel (GE)
D. Edwards (Siemens)	D. Lemmerman (PECO/Exelon)	E. Peters (Powell)
L. Farr (Eaton)	A. Livshitz (Schneider)	J. E. Smith (Eaton)
M. Flack (Southern Co.)	F. Mayle (Technibus)	P. Sullivan (Dupont)
K. Flowers (Siemens)	D. Mazumdar (Central El.)	M. Wactor (Powell)
S. S. Gohil (AZZ/Central El.)	A. Morse (Eaton)	R. Warren (KEMA)

**Members Absent (Affiliation):**

P. Barnhart* (UL)	J. Earl (ABB)	C. Taylor* (Eaton)
R. Bugaris (Rockwell)	C. Schneider* (Schneider)	J. Toney (GE)
T. A. Burse* (Powell)	H. Song* (Bechtel)	* = Excused

**Guests (Affiliation):**

M. Cannady (Southern Co.)	A. Jivanani (GE)	<b>R. Sazanowicz (United Illuminating)</b>
C. Carne (Schneider)	A. Jur (Eaton)	<b>G. Schoonenbberg (Eaton)</b>
<b>A. Crane (Consumers Energy)</b>	C. Kennedy (Eaton)	<b>M. Seabrook (GE)</b>
D. Dunne (Schneider)	T. Meeks (S&C)	J. Shullaw (GE)
P. Glaesman (Reuel)	J. Mizener (Siemens)	D. Sigmon (Eaton)
L. Grahor (Eaton)	D. Moser (ABB)	<b>R. Tanner (Schneider)</b>
<b>J. Hanson (Schneider)</b>	<b>O. Parks (ABB)</b>	<b>N. Uzelac (G&amp;W)</b>
T. Hawkins (Siemens)	D. Riffe (Westinghouse)	M. Williford (Schneider)
D. Hrnrcir (Eaton)		

- 1. Approval of Meeting Agenda**  
Motion to approve agenda by Mike Wactor, 2<sup>nd</sup> by Mike Lafond, and approved.
- 2. Introduction of members and guests**  
Members and guest introduced as recorded above.
- 3. Approval of the SA meeting minutes**  
Link: <http://www.ewh.ieee.org/soc/pes/switchgear/S12Minutes/S12SAmi.pdf>  
Minutes (link above) from the spring 2012 meeting from St. Pete Beach, FL were approved.  
Motion to approve by Ted Olsen, 2<sup>nd</sup> by A. Morse, and approved.
- 4. 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.
- 5. Technical Presentation – CIGRE WG A3.24 – Internal Arcing Simulations and Calculations**  
J. Uzelac provided presentation on internal arcing simulation and calculation models being developed by CIGRA SG A3.24. This presentation will be provided with SA minutes.
- 6. Working Group Status Report**
  - a. PC37.20.8 Task Force**  
J. Shullaw: Minutes (as attached) were shown.  
Actions for SA S/C: Request for volunteers for C37.20.1 WG.

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T. Burse (Chair)	H. Josten	J. Shullaw
D. Dunne	M. Lafond	D. Sigmon
K. Flowers	A. Livshitz	P. Sullivan
D. Hrncir	T. Olsen	
A. Jivanani	M. Seabrook	

C37.20.8 PAR will be withdrawn – in process even during S/C meeting.

- b. C37.20.2** Standard for Metal-Clad Switchgear  
M. Wactor: Minutes are provided.  
Document is nearly ready for ballot. WG granted authority for Chair & Vice-Chair to make final changes. All comments received have been discussed and resolved.

PAR extension has been requested.

Draft completion forecast is November 1, 2012. Balloting should be initiated by end of 2012.

Actions for SA S/C: None

- c. C37.20.3** Standard for Metal-Enclosed Interrupter Switchgear  
C. Ball: Minutes are provided.  
Rogue comments were reviewed in San Diego and resulting changes require 2nd ballot.  
Target for ballot initiation is November to December 2012.

PAR extension is being initiated.

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.

Ballot and recirculation ballot was processed with resulting five (5) comments. There was a second recirculation requested on October 1, 2012 (10 days ballot).

No PAR extension is planned.

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.

Meeting used for identifying goals and planning future activities. No draft was reviewed.

Texts for various annexes have been provided and will be distributed for review.

Actions for SA S/C: None

- f. PC37.23** Task Force  
E. Peters: Minutes are provided.

PAR has been submitted with minor revision and is being processed.

Goal is first draft out by end of February 2013.

Actions for SA S/C: None

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**7. Old Business**

**a. IEC activities**

L. Farr: IEC 62271-1 is in revisions and first CD had ~400 comments. Second CD will go out in January 2013. Forecast to be CDV in spring of 2014. Then all documents will start revision for new IEC 62271-1.

IEC 62271-201 Insulated Switchgear – Maintenance Team meeting in Asheville in November 2012. Then document to go out for Final Document International Standard (FDIS).

IEC 17A and IEC 17C have plenary meetings scheduled for the Netherlands in April 2013.

**b. ASC C37 – General update**

T. Olsen: Must start up revision of C37.54 and C37.55 when C37.20.2 is completed. Must start up revision of C37.57 and C37.58 once C37.20.3 and C37.20.4 are completed.

Policies and Procedures work to be addressed. Possible meeting to be held (TBD) at spring 2013 at Galveston, Texas meeting.

Minutes will be posted.

**c. Task Force Report on Other Enclosure Finishes**

C. Ball: Task Force work is completed. Text was included in C37.20.3. Once resolution of C37.20.3 ballot comments are completed, they will be made available to other working groups.

**d. ADSCOM – Switchgear Committee Policies and Procedures for Standards Development**

J. Smith: C37.20.6 is currently shown as an ADSCOM document. This should be corrected.

Action: Request C37.20.6 be transitioned to be a SA document instead of ADSCOM document. Subsequent to SA S/C meeting, ADSCOM did approve moving control of C37.20.6 to SA S/C.

**8. New Business**

**a. Switchgear Standard 1 kV to 52 kV**

E. Byron: Who should control and what number?

Recommendation is that a new standard should be created under Switchgear Assemblies and a new standard number (family of numbers) should be used.

Standards Boards requires that there be a primary sponsoring committee and its Policy and Procedures would govern.

Motion by E. Byron with 2<sup>nd</sup> by C. Ball: Switchgear Assemblies (as primary sponsor) with co-sponsorship by Substation Committee to create a Standard with target name of C37.20.9 for Gas Insulated Switchgear rated 1kV through 52 kV.

For the circuit breaker (inside the GIS), the requirements are not covered by this S/C.

Action: E. Byron - Develop and present to Substation Committee details for co-sponsorship agreement. Target time is in April 28 – May 2 (concurrent with PES meetings in Galveston, Tx).

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

J. Smith: Request transfer of control of C37.20.6 from ADSCOM to SA – See comment 7 d. above.

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**c. C37 Documents – Required action**

Based on five years prior to action due date (2017), two documents are identified as needing action:

- C37.20.1 WG is initiated and will meet.
- C37.20.6 (See comment 7 d. above) Plan is to review formation of a working group or a task force at the Spring 2013 meetings.

Other documents with actions required by 2018 will be addressed in spring 2013.

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

J. Smith:

- Request project for C37.20.9 Standard for Gas Insulated Switchgear, 1 kV Through 52 kV.

**e. 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, October 5, 2012.

**f. Working Group Minutes**

D. Edwards: Working group chairs should have their minutes emailed to Subcommittee Secretary no later than Friday, October 5, 2012, for publishing on the website.

Email address: [doug.edwards@ieee.org](mailto:doug.edwards@ieee.org)

**g. Upcoming Meetings:**

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	Asheville, NC (targeted)	
Spring 2015	St. Pete Beach, FL )	
Fall 2015	Calgary (targeted)	
Spring 2016	Open	
Fall 2016	San Diego, CA	

**9. Adjourn**

Meeting adjourned at 3:12 PM.

Reported by:

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