

**SWITCHGEAR ASSEMBLIES SUBCOMMITTEE SA S/C  
MINUTES OF THE Fall 2018 MEETING**

**Marriott Downtown, Kansas City, MO  
October 17, 2018**

The meeting was called to order by SA S/C Chair, M. Lafond, at 1:29 PM on October 17, 2018 with the introduction of members and guests:

**Attendance**

Members: 31 present, 12 absent – Quorum was met.

Guests: 31

Total: 62

Attendance is recorded at the end of the meeting minutes. Membership and attendance is recorded in the AMS system.

**1. Introduction of Members and Guests**

Members and guests introduced as recorded above.

**2. Verbal call for essential patents – none identified**

**3. Approval of Meeting Agenda**

Fall 2018 agenda presented.

Motion by P. Barnhart to accept the meeting agenda as presented. Second by D. Hrnrcir.

Motion approved by the SA S/C.

**4. Approval of SA Meeting Minutes**

Link: <http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2018-1/S18SAmiREV5.pdf>

Minutes (link above) from the Spring 2018 meeting in Orlando, FL were posted on-line.

One correction was noted.

Motion by A. Morse to accept these meeting minutes as revised; Second by P. Barnhart

Motion approved by the SA S/C.

SA S/C Secretary Email address: [tom.hawkins@ieee.org](mailto:tom.hawkins@ieee.org)

**5. Working Group & Ad Hoc Status Reports**

**a. C37.20.2 Ad Hoc – Logic Level/Communication Wire**

P. Barnhart: Report and suggested wording for C37.20.1, C37.20.2, C37.20.3, C37.20.9 and C37.21 are provided.

Volunteers: D. Hrnrcir as Chair; M. Wactor as Secretary

Motion by P. Barnhart to “open 3 PARs for Amendments to C37.20.1, C37.20.2 and C37.21 to incorporate Ad Hoc wiring proposals, headed by D. Hrnrcir and M. Wactor. Second by T. Burse.  
Motion approved by SA S/C.

Chair now disbands this Ad Hoc.

Actions for SA S/C Chair: No further action required.

**b. C37.20.9 – Draft Standard for Metal Enclosed Switchgear Rated 1 kV to 52 kV Incorporating Gas Insulation Systems**

E. Byron: Minutes are provided.

E. Byron: WG met Wednesday, Oct 17. Quorum was met. Pulled off RevCom agenda due to 1 negative ballot. Plan to resubmit to RevCom in December.

Will need a PAR extension.

Actions for SA S/C Chair: No further action required.

**c. C37.121 –Guide for Switchgear - Unit Substations – Requirements**

D. Moser: Minutes are provided.

D. Moser: Working Group met Tuesday, Oct 16. Quorum was met. Reviewed draft document. Next step: circulate draft for comments. Goal is to go to ballot after Spring 2019 meeting.

Actions for SA S/C Chair: No further action required.

**d. C37.20.3 –Standard for Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)**

A. Morse: Minutes are provided.

A. Morse: Ad hoc met Tuesday, Oct 16. Quorum was met. Reviewed draft document.

Next step: circulate draft for comments. Goal is to go to ballot after Fall 2019 meeting.

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Actions for SA S/C Chair: No further action required.

- e. **C37.20.4** – Ad Hoc for Standard for Indoor AC Switches (1 kV-38 kV) for Use in Metal-Enclosed Switchgear  
B. Cohn: Minutes are provided.  
B. Cohn: Reviewed draft PAR. Group is requesting SA S/C approval to submit PAR.  
Suggestion by T. Burse to change 5.5 Need for PAR, to remove “external community” as it is undefined.  
Motion by B. Cohn to accept the PAR including friendly amendment above. Second by M. Wactor.  
Motion approved by SA S/C.  
Actions for SA S/C Chair: No further action required.
- f. **C37.20.24** – IEEE Guide for Evaluating the Effect of Solar Radiation on Outdoor Metal-Enclosed Switchgear  
T. Woodyard: No meeting needed or held. Document created and reviewing by WG. Ballot pool forming.  
Actions for SA S/C Chair: No further action required.

**6. Old Business**

**a. IEC Activities**

C. Schneider not in attendance. No report provided.  
Actions for SA S/C Chair: No further action at this time.

**b. ACS C37** – General Update

K. Flowers: Verbal report.  
C37.50 & C37.51 have been submitted for publication.  
Actions for SA S/C Chair: No further action at this time.

**c. Visible Break** – Rode Discussion Group Report

M. Lafond: Minutes are not provided.  
Rode definition of Visible Break.  
"Visible break - a gap between conductors that can be visually verified and meets the dielectric withstand requirements in the relevant product standard."

Actions for SA S/C Chair: No further action at this time.

**7. Membership**

**a. Senior Membership & Award for Young Professionals**

M. Lafond: No new senior IEEE members since last meeting.  
M. Lafond: Encouraged all non senior members to obtain senior membership.  
Senior Membership url:  
[http://www.ieee.org/membership\\_services/membership/senior/index.html](http://www.ieee.org/membership_services/membership/senior/index.html)

**b. Switchgear Assemblies S/C Membership**

M. Lafond: Membership status will be reviewed after this meeting.

**c. Main Committee Membership**

M. Lafond: No new Main Committee member recommendations from SA S/C.

**8. New Business**

**a. C37.20.2** – possibility of addressing:

Discussion points:

- i. Testing of grounding provisions in switchgear intended for accepting G&T devices
- ii. Mechanical performance testing as it relates to auxiliary drawout equipment

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T. Woodyard:

i. a nuance in C37.20.2 may leave an opening where a ground and test device from another manufacturer doesn't have to be tested. C.37.20.6 covers the G&T device, but not in the switchgear.

ii. It's unclear if roll-out auxiliaries require endurance testing.

Motion by P. Barnhart to form a Study Group to work toward a PAR request excluding wiring related topics, Chaired by M. Wactor, Secretary A. Morse. Second by E. Byron.

Motion approved by SA S/C.

Actions for SA S/C Chair: No further action at this time

**b. Ad hoc – Air Temps surrounding cables in cable compartment**

P. Barnhart: Report is provided.

Action items noted.

Actions for SA S/C Chair: No further action at this time.

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

M. Lafond: Will be reviewed and updated.

**d. WG Meeting Room Requests – Update “SA Document Status” report**

M. Lafond: WG, Study Groups and Ad Hoc - Please confirm meeting room requirements with Tom Hawkins. Meeting room requests are circulated in SA Document status. Be sure that room requests include expected participant size.

**e. ADSCOM – Items for SA S/C Chair to discuss at ADSCOM meeting**

M. Lafond: No further action at this time.

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

Total: 14

Future PAR Activity: 4 C37.20.1, C37.20.2, C37.20.4, C37.21

Future TF Activity: 0

Future Ballot Activity: 0

Active PAR's: 4 - C37.20.3, C37.20.9, C37.24, C37.121

Not Active: 6 - C37.20.6, C37.20.7, C37.20.10, C37.23, C37.81, C37.82

**g. Working Group Minutes – Submit to SA S/C Secretary no later than October 19, 2018.**

Email address: [tom.hawkins@ieee.org](mailto:tom.hawkins@ieee.org) and [mike.lafond@ieee.org](mailto:mike.lafond@ieee.org)

**h. WG - Booklet & Website Synopsis – To SA S/C Secretary no later than October 19, 2018.**

Email address: [tom.hawkins@ieee.org](mailto:tom.hawkins@ieee.org) and [mike.lafond@ieee.org](mailto:mike.lafond@ieee.org)

**i. Upcoming Meetings**

Spring 2019 (28 Apr – 01 May), Hilton, Burlington, VT

Fall 2019 (06 Oct – 10 Oct), Catamaran Resort, San Diego, CA

Spring 2020 (04 May – 08 May), Peppermill Resort, Reno, NV

Fall 2020 (04 Oct – 08 Oct), Sheraton Sundance Square, Fort Worth, TX

Spring 2021 (18 April – 23 April), Hilton Charlotte University Place, Charlotte, NC

**9. Adjourn**

Meeting adjourned at 2:47 pm.

Reported by:

Tom Hawkins

Switchgear Assemblies Sub-Committee Secretary

October 17, 2018

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Attendance record and as recorded in the AMS system:

<b>First Name</b>	<b>Last Name</b>	<b>Company</b>	<b>Role</b>
Michael	Lafond	ABB	Chair
Tom	Hawkins	Siemens Industry, Inc.	Secretary
Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	Guest
Brad	Armstrong	Meramec Instrument Transformer Co.	Guest
Paul	Barnhart	Underwriters Laboratories	Member
Gautami	Bhatt	Bechtel OGC	Guest
Russell	Boyce	Eaton	Member
Ted	Burse	Powell Industries, Inc	Member
Eldridge	Byron	Schneider Electric	Member
Clint	Carne	Schneider Electric	Guest
Stephen	Cary	ABB	Member
Robert	Cohn	Powercon Corp.	Member
Brad	Connor	Xcel Energy	Guest
Randall	Creach	AZZ Switchgear Systems	Guest
Daniel	Delfino	General Electric	Guest
Federico	Di Michele	CESI S.p.A.	Guest
Jeffrey	Door	The H-J Family of Companies	Guest
David	Dunne	Schneider Electric	Member
Bernie	Dwyer	PECO	Guest
Doug	Edwards	Siemens Industry, Inc.	Member
Tanner	Esco	Eaton Corporation	Guest
Michael	Flack	Southern Company Services, Inc.	Member
Sergio	Flores	Schneider Electric Inc. USA	Member
Keith	Flowers	Siemens Industry, Inc.	Member
Christopher	French	Eaton Corporation	Guest
Paul	Gingrich	AZZ Switchgear Systems	Member
Peter	Glaesman	PCORE Electric Company, Inc.	Guest
Sahadev	Gohil	AZZ Switchgear Systems	Member
Lou	Grahor	Eaton Corporation	Member
Ronald	Hartzel	Eaton Corporation	Guest
Dan	Hrncir	Eaton	Member

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Rahul	Jain	S&C Electric Company	Guest
Christopher	Jarnigan	Southern Company Services	Guest
David	Lemmerman	PECO/Exelon	Member
Albert	Livshitz	CE Power Solutions	Member
Benson	Lo	Toronto Hydro	Guest
Steven	May	Southern Company Services	Guest
Steven	Meiners	GE	Member
Jeff	Mizener	Siemens Industry, Inc.	Member
Charles	Morse	Siemens Industry, Inc.	Member
Darryl	Moser	ABB	Member
Terry	Neighbours	ABB Inc.	Guest
T	Olsen	Retired, formerly with Siemens Industry, Inc.	Member
Miklos	Orosz	Myers Controlled Power	Member
Mary	Owens	Eaton	Guest
Owen	Parks	ABB	Guest
Andrew	Peterson	ABB	Guest
Mark	Peterson	Xcel Energy	Guest
John	Phouminh	PEPCO HOLDINGS, INC.	Guest
Paul	Rakus	Eaton	Guest
Dave	Riffe	Westinghouse Electric Company	Member
Mark	Roberson	AZZ/Calvert	Guest
Richard	Rohr	Powell Electrical Systems	Member
Tim	Rohrer	Exiscan	Guest
Dean	Sigmon	Eaton Corporation	Member
Garett	Sims	Eaton Corp.	Guest
Kevin	Sippel	Eaton Electric	Guest
Donald	Swing	Powell Industries	Guest
Chand	Tailor	Eaton Corporation	Member
Michael	Wactor	Powell Industries, Inc	Member
Michael	Whitney	S&C Electric Company	Guest
Terrance	Woodyard	Siemens Industry Inc.	Member