

**SWITCHGEAR ASSEMBLIES SUBCOMMITTEE SA S/C**  
**MINUTES OF THE SPRING 2020 MEETING**  
**Online MS Teams Meeting**  
**May 6, 2020**

The meeting was called to order by SA S/C Chair, T. Hawkins, at 1:30 PM CDT on May 6, 2020:

**Attendance**

Members: 36 present, 1 absent – Quorum was met.

Guests: 36

Total: 72

Attendance is recorded at the end of the meeting minutes. Membership and attendance are recorded in the 123 Signup system.

**1. Introduction of Members and Guests**

Members and guests introduced as recorded above.

**2. Remembering Allan Morse**

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

**4. Approval of Meeting Agenda**

The Spring 2020 agenda was presented for review.

Motion by T. Burse to accept the meeting agenda as presented. Second by R. Hartzel

Motion approved by the SA S/C.

**5. Approval of SA S/C Meeting Minutes**

Link: <http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2019-2/F19SAmiREV0.pdf>

Minutes (link above) from the Fall 2019 meeting in San Diego, CA were posted on-line.

Motion by M. Lafond to accept these meeting minutes; Second by D. Edwards

Motion approved by the SA S/C.

**6. Working Group, Task Force, Study Group & Ad Hoc Status Reports**

**a. C37.20.2 – IEEE Standard for Metal-Clad Switchgear:**

M. Wactor: Minutes are provided.

M. Wactor: Verbal update of WG activities. WG met and discussed the draft document, there will be a possible request to change the PAR at the Fall 2020 meeting for the maximum voltage level.

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

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

R. Hartzel: Minutes are provided.

R. Hartzel: Verbal update of WG activities. WG met for two sessions and reviewed comments from two Ad Hoc groups. There will be a possible request to change the PAR at the Fall 2020 meeting for the maximum voltage level.

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

**c. C37.20.4 – Ad Hoc for Standard for Indoor AC Switches (1 kV-52 kV) for Use in Metal-Enclosed Switchgear**

B. Cohn: Minutes are provided.

B. Cohn: Verbal update of WG activities. Discussion about copyright approval process and/or references for material from C37.100.1 and possibly IEC documents for use in C37.20.4.

Action item: T. Burse will help B. Cohn with copyright request process.

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

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- d. **C37.20.7** - PAR Study Group for possibility of adding additional accessibility suffix E  
D. Hrnrcir: Minutes are provided.  
D. Hrnrcir: Verbal update of SG activities.  
Motion by D. Hrnrcir, PAR Study Group Chair, The Study Group recommends the SA S/C approve the creation of a PAR for a full revision of C37.20.7. Motion seconded by A. Livshitz. A roll call vote was taken with 5 - No, 8 - Abstaining and 23 – Yes.  
Motion approved by SA S/C.  
The current PAR Study Group Chair is now disbanded, a new Study Group is formed by SA S/C with D. Hrnrcir as Chair and P. Sullivan as Secretary to develop the PAR language.  
Motion by T. Burse, “Move that the SASC retain sponsorship of C37.20.7.” Seconded by D. Hrnrcir. 6 – Abstaining, all others in favor. Motion approved by SA S/C.  
Actions for SA S/C Chair: Voice the opinion of SA S/C in the ADSCOM meeting.
  
- e. **C37.23** – IEEE Standard for Metal Enclosed Bus  
J. Hines: Minutes are provided.  
J. Hines: Verbal update of WG activities.  
Motion by J. Hines to request a PAR and begin formation of the working group. Second by M. Roberson. Motion approved by SA S/C.  
Actions for SA S/C Chair: No further action required.
  
- f. **C37.121** –Guide for Switchgear - Unit Substations – Requirements  
D. Moser: Minutes are provided.  
D. Moser: Verbal update of WG activities. WG met to discuss and resolve draft 1.5 ballot comments received. The ballot was successful with 87% approval rate, next steps are to finish comment resolutions, update draft and have a 10 day recirculation ballot.  
Actions for SA S/C Chair: No further action required.

**7. Old Business**

**a. IEC Activities**

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

**b. ACS C37 – General Update**

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

- c. **C37.20.6** – IEEE Standard for 4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures: SA S/C Chair appointed R. Hartzel – Chair, P. Gingrich – Secretary

- d. **C37.20.1, C37.20.2 & C37.21** – Amendments to incorporate Ad Hoc wiring proposals has been published.

**8. Membership**

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

T. Hawkins: No new senior members.  
Recognition of D. Gohil for becoming an IEEE Life Member.  
T. Hawkins: Encouraged all non-senior members to obtain senior membership status.  
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**

T. Hawkins: Recognized D. Delfino, J. Door, M. Roberson and G. Sims as new SA S/C members.

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**c. Main Committee Membership**

T. Hawkins: New Main Committee member recommendations have been made by SA S/C to the Main Committee for consideration.

**9. New Business**

**a. Start revisions to / seeking Working Group Chairs:**

1. **C37.20.1** - IEEE Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear - Call for volunteers to lead the WG activities
2. **C37.20.7** - IEEE Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults – Corrigendum to add the instructions for initiating a two-phase fault

Motion by M. Wactor to submit a PAR and proceed with balloting of the corrigendum to reinstate two phase testing in C37.20.7 - 2017. Motion seconded by P. Barnhart. Motion approved by SA S/C. M. Wactor – Chair and P. Barnhart – Secretary for these activities. Actions for SA S/C Chair: Report PAR Activity to Main Committee.

**b. WG / TF / Study Group Chairs – Required information**

All 3 of the following need to be sent to the SA Subcommittee Secretary no later than Thursday, May 21, 2020. [darryl.moser@us.abb.com](mailto:darryl.moser@us.abb.com); [CC: tom.hawkins@ieee.org](mailto:tom.hawkins@ieee.org)

1. **SA Document Status** – Required action – WG – Document Status & Website Synopsis – To SA S/C Secretary no later than Thursday, May 21, 2020.
2. **WG Meeting Room Requests** – Update “SA Document Status” report  
T. Hawkins: WG, Study Groups and Ad Hocs - Please confirm meeting room requirements with Darryl Moser. Meeting room requests are circulated in SA Document status. Be sure that room requests include expected participant size and number of sessions.
3. **Working Group Minutes** – Submit to SA S/C Secretary no later than Thursday, May 21, 2020.

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

SA S/C voted during the subcommittee meeting (6 – Abstaining, all others in favor) to retain sponsorship of C37.20.7 and ask that the sponsorship not be turned over to ADSCOM.

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

Total: 14 documents  
Active PAR's: 4 - C37.20.2, C37.20.3, C37.20.4, C37.121  
2020 Ballot Activity: 1 - C37.121  
Upcoming PAR Activity: 2 - C37.20.7 corrigendum, C37.23  
Not Active: 7 - C37.20.1, C37.20.6, C37.20.9, C37.20.10, C37.24, C37.81, C37.82

**e. Upcoming Meetings**

Fall 2020 (04 Oct – 08 Oct), Sheraton Sundance Square, Fort Worth, TX  
Spring 2021 (18 April – 23 April), Hilton Charlotte University Place, Charlotte, NC

**10. Adjourn**

Meeting adjourned at 3:20 PM CDT.

Reported by:

Darryl Moser  
Switchgear Assemblies Sub-Committee Secretary  
May 6, 2020

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Attendance record and as recorded in the 123 Signup system:

<b>Role</b>	<b>First Name</b>	<b>Last Name</b>	<b>Company</b>
Chair	Tom	Hawkins	Siemens Industry, Inc.
Secretary	Darryl	Moser	ABB
Member	Paul	Barnhart	Underwriters Laboratories
Member	Russell	Boyce	Eaton
Member	Ted	Burse	Powell Industries, Inc
Member	Eldridge	Byron	Schneider Electric
Member	Stephen	Cary	Eaton
Member	Robert	Cohn	Powercon Corp.
Member	Daniel	Delfino	General Electric
Member	Jeffrey	Door	The H-J Family of Companies
Member	David	Dunne	Schneider Electric
Member	Doug	Edwards	Siemens Industry, Inc.
Member	Michael	Flack	Southern Company Services, Inc.
Member	Sergio	Flores	Schneider Electric Inc. USA
Member	Keith	Flowers	Siemens Industry, Inc.
Member	Paul	Gingrich	AZZ Switchgear Systems
Member	Sahadev	Gohil	AZZ Switchgear Systems
Member	Lou	Grahor	Eaton Corporation
Member	Ronald	Hartzel	Eaton Corporation
Member	Jared	Hines	Eaton Corp.
Member	Dan	Hrcir	Eaton
Member	Michael	Lafond	ABB
Member	Albert	Livshitz	CE Power Engineered Services
Member	Jeff	Mizener	Siemens Industry, Inc.
Member	Terry	Neighbours	ABB Inc.
Member	Mark	Roberson	AZZ/Calvert
Member	Richard	Rohr	Powell Electrical Systems
Member	Carl	Schneider	Schneider Electric
Member	Dean	Sigmon	Eaton Corporation
Member	Garett	Sims	Eaton Corp.
Member	Kevin	Sippel	Eaton Electric

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Member	Paul	Sullivan	DuPont
Member	Chand	Taylor	Eaton Corporation
Member	Michael	Wactor	Powell Industries, Inc
Member	Torsten	Wirz	ABB AG
Member	Terrance	Woodyard	Siemens Industry Inc.
Guest	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)
Guest	Francis	Beauchemin	Hydro-Quebec
Guest	Clint	Carne	Schneider Electric
Guest	Michael	Christian	ABB
Guest	Justin	Coletta	Powell Industries
Guest	Randall	Creach	AZZ Switchgear Systems
Guest	Anil	Dhawan	ComEd
Guest	Patrick	Di Lillo	Consolidated Edison Co. of NY, Inc.
Guest	Federico	Di Michele	CESI S.p.A.
Guest	Christopher	French	Eaton Corporation
Guest	Ilya	Glinsky	Southern California Edison
Guest	Jason	Hollander	CHA Consulting, Inc.
Guest	Rahul	Jain	S&C Electric Company
Guest	Christopher	Jarnigan	Southern Company Services
Guest	Travis	Johnson	Xcel Energy
Guest	Chad	Kennedy	Schneider Electric
Guest	James	Lagree	Eaton
Guest	Robert	Lau	nVent Hoffman
Guest	Benedict	Lavrinnoff	Kinectrics Inc
Guest	Alex	Lizardo	Cargill
Guest	Steven	May	Southern Company
Guest	Owen	Parks	ABB
Guest	Mark	Pattison	H-J Family of Companies
Guest	Edward	Peters	Powell Elect. Sys. - Delta/Unibus Div.
Guest	Andrew	Peterson	ABB
Guest	Mark	Peterson	Xcel Energy
Guest	John	Phouminh	PEPCO HOLDINGS, INC.
Guest	Paul	Rakus	Eaton
Guest	Jeffery	Ricker	SCHNEIDER ELECTRIC
Guest	Leonel	Santos	Schneider Electric

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Guest	Victor	Savulyak	DNV GL KEMA Laboratory
Guest	Christopher	Slattery	FirstEnergy
Guest	James	Stacy	Schneider Electric
Guest	Donald	Swing	Powell Industries
Guest	John	Webb	ABB
Guest	Jerry	Wen	BC Hydro