

**IEEE Switchgear Assemblies Subcommittee Meeting**  
**Spring 2025 Agenda**  
**Wednesday, 1:30-3:15 PM, April 9, 2025**  
**Wyndham Grand Orlando Resort Bonnet Creek, Orlando, FL**

The meeting was called to order by SA S/C Chair, J. Hines, at 1:30 PM on April 9, 2025:

**Attendance**

- Members: 30 of 37 members present – Quorum was met.
- Guests:, 57
- Total: 87

Attendance list recorded at the end of the meeting minutes.

**1. Introduction of Members and Guests**

Members and guests introduced as recorded below.

**2. Reviewed IEEE Patent, Copyright slides, and reminder against commercial topics**

Verbal call for any issues– none identified.

**3. Approval of Meeting Agenda**

The Spring 2025 agenda was presented for review. Motion to approve agenda by R. Boyce, Second by M Lafond. Motion approved by unanimous consent.

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

[F24\\_SA\\_SC\\_Minutes\\_R00.pdf](#)

Minutes (link above) from the Fall 2024 meeting were posted online. Motion to approve meeting minutes by M. Lafond, Second by R. Boyce. Motion approved by unanimous consent.

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

- a. C37.20.1 - IEEE Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear**

Mike Lafond: Meeting minutes are provided. Verbal update of WG activities.

WG met with quorum. Ballot technical comments reviewed but plan to complete another recirculation ballot. Working toward a successful ballot ahead of document expiration at end of year.

PAR extension expires Dec. 31, 2026. Documents posted in iMeet Central. Actions for SA S/C Chair: No further action required.

- b. C37.20.2 - IEEE Standard for Metal-clad Switchgear**

Ron Hartzel: Meeting minutes are provided. Verbal update of WG activities.

WG met with quorum. Discussion brought to subcommittee on use of Kelvin or Celsius for temperature rise as some documents have been published with Kelvin and others use Celsius. Chair noted that IEEE edits could decide it but otherwise the differing groups could leave this as is in each working group.

PAR expires Dec. 31, 2028.  
Actions for SA S/C Chair: No further action required.

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

Bob Cohn: WG is in ballot and did not meet.

PAR extension expires Dec. 31, 2025

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

- d. C37.20.7.1 - Guide for Application, Installation, and Use of Switchgear Rated Up to 52 kV Tested for Internal Arc Faults**

M. Lafond: Meeting minutes are provided. Verbal update of PAR SG activities.

WG group met with quorum and heard from several ad hocs focused on addressing areas of the application guide from C37.20.7.

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PAR expires Dec. 31, 2028.

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

- e. **C37.20.9** - IEEE Standard for Metal-Enclosed Switchgear Rated 1 kV to 52 kV  
Incorporating Gas Insulating Systems  
Terry Woodyard: Minutes are provided. Verbal update of Working Group activities.  
  
WG met with quorum. Reviewed technical comments. Virtual meeting planned for review of general comments.  
  
PAR expires Dec. 31, 2028.  
  
Actions for the SA S/C Chair: No further action required.
- f. **C37.20.10** - IEEE Standard for Definitions for AC (52 kV and Below) and DC (3.2 kV and Below) Switchgear Assemblies  
Dan Delfino: WG is publishing and did not meet. As group has completed their activity, chair disbanded WG.  
  
PAR expires Dec. 31, 2025  
  
Actions for SA S/C Chair: No further action required.
- g. **C37.21** - IEEE Standard for Control Switchboards  
Christo Thomas: Minutes are provided. Verbal update of WG activities  
  
WG met with quorum. Reviewed and discussed comments already received in current ballot close on Apr. 19, 2025.  
  
PAR expires Dec. 31, 2027  
  
Actions for SA S/C Chair: No further action required.
- h. **C37.23** - IEEE Standard for Metal Enclosed Bus  
Jared Hines: Working group is forming a ballot pool and waiting on MEC for ballot.  
  
PAR extension expires Dec. 31, 2026  
  
Actions for SA S/C Chair: No further action required.
- i. **C37.24** - IEEE Guide for Evaluating the Effect of Solar Radiation on Outdoor Metal-Enclosed Switchgear  
Terry Woodyard: Minutes are provided. Verbal update of WG activities.  
  
WG met with quorum. Reviewed technical comments. Virtual meeting planned for review of general comments.  
  
PAR expires Dec. 31, 2026  
  
Actions for SA S/C Chair: No further action required.
- j. **C37.81** – IEEE Guide for Seismic Qualification of Class 1E Metal-Enclosed Power Switchgear Assemblies  
Russell Boyce: Minutes are provided. Verbal update of SG activities.  
  
WG met with quorum and agreed to head to ballot.  
  
PAR expires Dec. 31, 2027  
  
Actions for SA S/C Chair: No further action required.
- k. **C37.82** – IEEE Standard for the Qualification of Switchgear Assemblies for Class 1E Applications in Nuclear Power Generating Stations  
Russell Boyce: Minutes are provided. Verbal update of SG activities.  
  
WG met with quorum. The standard is out for ballot and ballot closes 4/30/25.  
  
PAR expires Dec. 31, 2027

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

**6. Old Business**

- a. IEC Activities & ACS C37** Will report in main committee

Actions for SA S/C Chair: Remove from agenda moving forward.

- b. T&I Liaison report**

A. Livshitz: Discussed Working on Joint Technical Brochures and new process for cyber security.

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

**7. Membership**

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

Bob Cohn recognized recent members attaining senior status and 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**

J. Hines: Chair noted that new members would be welcomed in the fall.

- c. Main Committee Membership**

J. Hines: New Main Committee member recommendations will be made by SA S/C to the Main Committee for consideration.

**8. New Business**

- a. Working Group Ad Hoc for continuous current testing clause**

Group being led by M. Lafond. Mike noted that C37.20.1 continues to work through clarifications and updates on recent language introduced to harmonize SA S/C standards on continuous current testing clauses. Affected standards include C37.20.1, 20.2, 20.3, & 20.9. Mike noted that membership is open to members of these working groups C37.20.1, 20.2, 20.3, & 20.9.

- b. Working Group Ad Hoc for new labeling requirements for 20.7**

Group being led by M. Lafond and including D. Hrncir and P. Barnhart. They will meet and discuss a plan of action.

- c. ERP-**

Discussion on adding Jennifer Santulli as a Member in WG email lists and classify her as an observer.

- d. Start revisions to / seeking WG Chairs: – J. Hines**

1. C37.121 IEEE Guide for Switchgear - Unit Substation – Requirements - *Fall 2025 (Led by P. Barnhart & J. Kaminski)*

- e. WG / Study Group Chairs – Required information**

All 3 of the following need to be sent to the SA Subcommittee Secretary no later than Friday, April 25, 2025.

Email address: [bob.cohn@ieee.org](mailto:bob.cohn@ieee.org)

1. **SA Document Status** – Required action / review of “SA Document Status”

2. **WG Meeting Room Requests** – for Spring 2025

3. **Working Group Minutes** – from virtual meetings from Fall 2024 and through this week’s meetings

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

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

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Total: 14 documents

Active PARs: 11 - C37.20.1, C37.20.2, C37.20.4, C37.20.7.1, C37.20.9, C37.20.10, C37.21, C37.23, C37.24, C37.81, C37.82

Ballot Activity: 9 - C37.20.1, C37.20.2, C37.20.4, C37.20.10, C37.21, C37.23, C37.24, C37.81, C37.82

Upcoming PAR Activity: C37.121

Not Active: 4 - C37.20.3, C37.20.6, C37.20.7

**h. Upcoming Meetings**

1. Fall 2025: October 5 - 9, Peppermill Resort, Reno, NV
2. Spring 2026: April 26 - 30, Sheraton Sand Key Resort, Clearwater Beach, FL
3. Fall 2026: October 4 - 8, Catamaran Resort, San Diego, CA
4. Spring 2027: April 4 - 8, Hyatt Regency, Orlando, FL
5. Fall 2027: October 10 - 14, Alohilani Resort, Waikiki Beach, HI
6. Spring 2028: April 23 - 27, Marriott Rivercenter, San Antonio, TX
7. Fall 2028: October 8 - 12, Hyatt Regency, Columbus, OH

**9. Adjourn**

Meeting adjourned at approximately 3:15 PM.

Reported by:

Bob Cohn  
Switchgear Assemblies Subcommittee Secretary

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**Attendance Record**

First Name	Last Name	Company	Role
Jared	Hines	Eaton	Chair
Robert	Cohn	Powercon Corp.	Secretary
Paul	Barnhart	Underwriters Laboratories	Member
Russell	Boyce	Eaton	Member
Robert	Burns	Eaton	Member
Ted	Burse	Powell Industries, Inc	Member
Clint	Carne	Schneider Electric	Member
Randall	Creach	Avail Switchgear Systems	Member
Jeffrey	Door	The H-J Family of Companies	Member
Doug	Edwards	Siemens Industry, Inc.	Member
Sergio	Flores	Schneider Electric Inc. USA	Member
Christopher	French	Beta Engineering	Member
Lou	Grahor	Eaton	Member
Erin	Hardy	Eaton	Member
Ronald	Hartzel	Eaton	Member
Tom	Hawkins	Siemens Industry, Inc.	Member
Dan	Hrcir	Eaton	Member
Michael	Lafond	Underwriters Laboratories	Member
Albert	Livshitz	Qualus Services	Member
Adrian	Lopez	Spike Electric	Member
Jeff	Mizener	Siemens Industry, Inc.	Member
Darryl	Moser	ABB	Member
Terry	Neighbours	ABB Inc.	Member
Mark	Roberson	Avail Bus Systems	Member
Carl	Schneider	Schneider Electric	Member
Garett	Sims	Eaton	Member
Kevin	Sippel	Eaton Electric	Member
Donald	Swing	Avail Switchgear Systems	Member

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First Name	Last Name	Company	Role
Christo	Thomas	Schneider Electric	Member
Terrance	Woodyard	Siemens Industry Inc.	Member
Brian	Adair	IE Corp	Guest
George	Aduloju	S&C Electric Company	Guest
Tim	Anderson	AlumaForm	Guest
Cole	Attaway	Spike Electric	Guest
Hanan	Attia	IEM	Guest
Marco	Banda	Spike Electric	Guest
Andreas	Bartels	Powell	Guest
Siddangoud	Biradar	Eaton	Guest
Randy	Blake	Schneider Electric	Guest
Chris	Bridges	Eaton	Guest
Nick	Bouche	Switchgear Power Systems	Guest
Jason	Cunningham	Power Grid Components	Guest
Federico	Di Michele	CESI, Italy	Guest
Arkadiusz (Erik)	Doroz	Eaton	Guest
Caleb	Essel	Spike Electric	Guest
Robert	Hanna	JST Power Equipment	Guest
Oliver	Hartmann	Siemens Industry	Guest
Gary	Haynes	ABB	Guest
Michael	Howard	Eaton	Guest
Terry	Hunt	Westinghouse Electric Company	Guest
Kai	Jacob	Siemens	Guest
Fathmi	Jahan	ABB	Guest
John	Kaminski	Siemens	Guest
Mick	Kasonga	Oncor Electric	Guest
Seth	Kravetz	Qualus	Guest
J. Dakota	Leopard	Eaton	Guest
Daniel	Lightsey	Maveric Power	Guest
Adrian	Lopez	Spike Electric	Guest
Kevin	McGlown	JST Power Equipment	Guest

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Henning	Milnikel	Siemens	Guest
Roberto	Olivares	Siemens	Guest
Mike	Page	Eaton	Guest
Sumitabha	Pal	Schneider Electric	Guest
Owen	Parks	ABB	Guest
Lalit	Patil	Eaton	Guest
Mark	Peterson	Xcel Energy	Guest
Paul	Rakus	Eaton	Guest
Samala Santosh	Reddy	Powell Industries	Guest
Aaron	Rexroad	Meiden America	Guest
Steven	Richens	IE Corp	Guest
Ian	Rokser	Eaton Corp	Guest
Amy	Rowell	Schneider Electric	Guest
Art	Runov	S & C	Guest
Leonel	Santos	Schneider Electric	Guest
Carl	Schnieder	Schneider Electric	Guest
Aniket	Shirode	ABB	Guest
Kevin	Sippel	Eaton	Guest
Lokesh	Solanki	ABB	Guest
Bryan	Tatum	UL Solutions	Guest
Timothy	Terry	Meiden America	Guest
Jey	Thayalan	Schneider Electric	Guest
Bryan	Tuthill	Volta LLC	Guest
Joe	VanGaasbeck	Powercon	Guest
Jacob	Walgenbach	Siemens Industry	Guest
Jonathan	Wear	JST Power Equipment	Guest
Jason	Williams	JST Power	Guest
Mina	Youssef	Eaton Corporation	Guest