

**IEEE PES SWITCHGEAR COMMITTEE
 MAIN COMMITTEE BUSINESS CONFERENCE AGENDA
 Thursday, October 12, 2023
 3:45 PM – 5:30 PM (PDT/UTC-7)**

Item	Description	Presenter
1	Call Conference to Order Conference called to order by the chair, at 3:45 pm	Doug Edwards – Chair
2	Introduction of Members and Guest Attendees introduced themselves with affiliation.	John Webb - Secretary
3	Attendance and Quorum Check Preliminary count of attendees recognized in the conference during introductions indicated that a quorum was present. Quorum confirmed later – Agenda item 25.	John Webb
4	Agenda Review and Approval Agenda presented for review; chair requested a motion to approve the agenda as shown. Motion to approve by Ron Hartzel, 2 nd by Jeff Ward. Motion approved without objection or abstention.	Doug Edwards
5	Approval of Spring 2023 Conference Minutes Spring 2023 Conference Minutes presented for review; chair requested a motion to approve. Motion to approve by Bob Cohn, 2 nd by Carl Schuetz. Motion approved without objection or abstention.	Doug Edwards
6	Thank You to Our Fall 2023 Supporters!!!!	
7	Chair’s Report Chair expressed his hope that all have enjoyed this week in sunny southern California. Reported that the switchgear committee tried a few new things this week: <ul style="list-style-type: none"> - Monday morning – The breakfast included communication of “To Do” list for the conference was added to the Orientation breakfast. - Wednesday morning – Eleven (11) training sessions were added including: <ul style="list-style-type: none"> o Various WG’s gave overviews of their WG and Standards updates. Expressed that these close-out sessions were of value to all attendees who cannot normally attend nor closely follow every standard the committee maintains. Encourages all WG Chairs to plan to provide similar “close-out” sessions in the future. o Various technical presentations were provided. The various topics were as listed in the conference schedule. o For the Spring 2024 in Ft. Lauderdale, the customary schedule will be in place: WG’s conferences on Wednesday morning, AdsCom and Main Committee conferences on Thursday morning, and a one (1) Thursday afternoon technical presentation. o Schedule options for the Fall 2024 Oklahoma City conference are under review. Comments on Hybrid Conferences for Co-Sponsored WG’s and Entity WG’s The hybrid conferences held during the conference all suffered from some technical issues and conference management issues. The main committee officers are considering requiring that any conferences in which a significant number of attendees cannot be present be held completely online, and not during the timeframe when in person conferences are being held. Dominance issues: Although there was no evidence of actual dominance, there were occasional comments overheard along the line of “my company”. There will be increased emphasis on the individual representation of each attendee. Additionally, there will be more emphasis given on IEEE policies regarding the recording of conferences (including still photography, videography, or audio recording). Chair reported that two members and valuable contributors to the Switchgear Committee recently passed away: Mr. Eldridge Byron , who was active for at least 30 years in the committee and chaired several WG’s Dr. Mischa Steurer , who had chaired the new standard C37.302 – Guide for Fault Current Limiter testing. The committee observed a minute of silence in their memory.	Doug Edwards

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8	Switchgear Committee Financial Report	John Webb - Treasurer
	The treasurer reported that the committee was solvent and had sufficient funds to pay current and projected future conference expenses. The IEEE audit of committee finances for the year ending 31 December 2022 was completed satisfactorily.	
9	Standards Coordinator's Report	Keith Flowers
	The standards coordinator's report, with the status of all standards, will be posted separately. For future conferences, plans are to emphasize key activities to be accomplished during the conference during the Monday morning kickoff breakfast conference.	
10	Technical Committee Program Coordinator (TCPC)	Tony Ricciuti
	Reported there were no papers or presentations pending review.	
11	Registrar's Report	Jeremy Hensberger
	Attendance at the conference as follows: Attendees: 340 Guests / Companions: 65 First Time Attendees: 50 Tuesday Luncheon: 100 Wednesday Social: 239 Support Funds: \$60,000 Two Attendees reported affiliations by exception Dave Mitchell Southern States, LLC Daniel Hook NETA	
<u>Subcommittee Reports</u>		
12	Administrative (ADSCOM)	Donnie Swing
	IEEE C37.301 has not progressed, the current PAR expires at the end of the year. The WG will regroup and review the scope under a study group to be headed by Keith Flowers with the intention of submitting a new PAR for a new standard.	
13	Education, Recognition & Publications (ERP)	Nenad Uzelac
	Presented short review of the educational / technical program. Reminder that a PDH / CEU form is on the Switchgear Committee home page. 29.5 hours of training eligible for Professional Development / Continuing Education were conducted this conference. ➤ Submission deadline is 27 Oct 2023: ➤ New email address: <i>switchgear-erp@ieee.org</i> Awards presented to the WG members for the following published standards: - C37.75 Standard for Pad-Mounted, Pole-Mounted and Submersible Switchgear Enclosures and associated Control Enclosures - Coastal and Non-Coastal Environmental Integrity. Anil Dhawan, Chair; Karla Trost, Secretary. - C37.122.2 Guide for the Application of Gas-Insulated Substations Rated 1 kV to 52 kV Joint with Substations Subcommittee, Eldridge Byron; Chair, Xi Zhu, Vice-Chair; Nicholas Maton, Secretary (Substations); Terry Woodyard, Secretary (Switchgear); Recognition of Retiring Member Pat DiLillo. Pat will be receiving the Switchgear Technical Committee Distinguished Service Award.	

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Item	Description	Presenter
14	High Voltage Circuit Breakers (HVCB)	Carl Schuetz
	The chair of the committee reported on change of chair for C37.01. Requested information from any member on data concerning long term aging experience on contacts in non-reactive gases at elevated temperatures. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
15	High Voltage Fuses (HVF)	Sterlin Cochran
	The chair of the committee had nothing for the main committee to consider. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
16	High Voltage Switches (HVS)	Jacob Blake
	The chair of the committee reported that new PARS were being initiated for standards C37.30.2, C37.30.3 and C37.30.4. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
17	Low Voltage Switchgear Devices (LVSD)	Jeff Mizener
	The chair of the committee had nothing for the main committee to consider. Details of the work of the subcommittee and its working groups will be posted with the minutes.	
18	Reclosers and Other Distribution Equipment (RODE)	Frank DeCesaro
	The chair of the committee reported that work had begun on the revision to dual-logo standard IEEE C37.60 / IEC 62271-111 with a new working group / maintenance team. Next meeting of the group will be in Italy in January 2024. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
	Switchgear Assemblies (SA)	Darryl Moser
	The chair of the committee reported C37.2.4 will be going to ballot and will be submitting a PAR extension to resolve comments and finish the document. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
	Technology and Innovation Subcommittee (TI)	Alex Cochran
	The chair of the committee had nothing for the main committee to consider. Other details of the work of the subcommittee and its working groups will be posted with the minutes.	
<u>Liaison Reports</u>		
21	Accredited Standards Committee C37	John Webb
	ASC C37 Liaison reported that NEMA C37.54 has been published. A small corrigendum may be expected in the near future to resolve an issue with tolerances on test SC2, after which the document will be balloted for ANSI approval. C37.57 has been administratively withdrawn since 11/2020. With the acceptance of IEEE C37.20.3 by RevCom in June, NEMA should be able to finalize and ballot a revised C37.57. This report will be posted with main committee minutes.	
22	Short Circuit Test Liaison of the Nations of the Americas (STLNA)	Victor Savulyak
	Report from Doug Edwards on the O&P modification which was electronically balloted. The E-Ballot (initiated on 8/10/2023 and closing on 9/10/2023) O&P modification had approved the creation of a STLNA Subcommittee.	

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	<p>However, based on comment and review with IEEE-SA Staff, the conclusion is that (as detailed in email of 6 September 2023 to Switchgear membership):</p> <ul style="list-style-type: none"> • STLNA’s deliverables include providing comments on and clarifications of standards developed by other other Standard Development Organizations (SDO’s), e.g., IEC standards. If STLNA were a Switchgear Subcommittee and as the Switchgear Committee is organized under IEEE-SA, the opinions provided by STLNA would be “by IEEE.” As IEEE is not allowed to provide clarification of other SDO’s documents, such a structure is NOT allowed. • Thus, the changes are NOT allowed, and we revert to the previous O&P – dated December 17, 2018. • For now, looking for how the Swgr Committee might support STLNA but we do NOT have any solutions. • There have been discussions for potentially organizing a Testing (or Field Testing) Committee – outside of Switchgear. But this does not address STLNA’s immediate needs. <p>All parties involved are attempting to find a solution to permit the important work that STLNA does which is of benefit to the industry.</p>	
23	<p>CIGRÉ</p> <p>Planning to add a day for CIGRÉ work at the IEEE Joint Technical Committee Conference. New published document brochure 914 – Guideline for End of Life of Equipment in Substations CIGRÉ Utility Advisory Board – Request to interested parties to participate.</p>	Nenad Uzelac
<u>Old Business</u>		
24	<p>MemberPlanet Update</p> <p>The Chair reported that MemberPlanet modification and implementation is behind schedule.</p> <p>MP profiles: The Switchgear Committee currently has 64% of attendees of this conference registered with MemberPlanet, not including people who have registered this week.</p> <p>The Plan had been to: Have structure – MC → SC’s → WG’s built. Have training for SC & WG Officers for how to populate your groups.</p> <p>But, we are still awaiting MemberPlanet software readiness. Chair is not optimistic for significant improvement and dates to continue to slide. He will keep everyone informed.</p> <p>The initial ‘stop-gap’ solution of using other methods e.g., Excel sheets, to keep up with Group Rosters must continue.</p> <p>In a parallel system, as discussed by Jennifer Santulli on Tuesday morning, there will also be task for Group Officers to update their memberships in myProject. The myProject system is where WG members are recorded for presenting in published documents and for IEEE Awards. PES Program Managers, Jennifer Santulli for Switchgear, have promised to work to use MP to help make myProject updates. There will be more work.</p>	Doug Edwards
<u>New Business</u>		
25	<p>Quorum Verification</p> <p>Complete, quorum confirmed to be present.</p>	John Webb

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26	<p>Procedural Revisions</p> <p>Good news: Standards Committee P&P: The Switchgear P&P revision, to address Ex-Officio membership in Entity WG's, was approved during the IEEE-SASB 21st September 2023 conference. The updated P&P's have been posted, via the IEEE myProject system, on the Switchgear website.</p> <p>WG P&P: Per IEEE-SA AudCom Conventions, with the approval of a revised P&P, the Switchgear will submit a WG P&P for review. Per IEEE-SA AudCom Conventions, AudCom Administrator will be requesting submittal of a WG P&P for review. The Immediate Past Chair (Keith Flowers) has the responsibility for managing review and approval processes for the O&P and P&P and will address the AudCom request when received.</p> <p>O&P Modification: As discussed earlier, the O&P revision to create and STLNA subcommittee is not allowed by IEEE-SA. We revert to the previous December 17, 2018 O&P as is posted on our website.</p>	Doug Edwards												
27	<p>Leadership Opportunities</p> <p>The chair expressed that just as in everyone's day jobs – development is one of the keys to success of our companies and in our careers. Please volunteer for roles in your working groups and subcommittee's. Please communicate your interest to your group leadership. There were certainly opportunities to address needs at every level of our organization that were identified this week. The committee is hopeful that volunteers to meet those needs in various WG conferences have stepped forward.</p> <p>The officer rotation of the Main Committee officers typically occurs every two (2) years which will be at the end of 2024.</p> <p>The officer rotation of Subcommittee officers typically occurs every three (3) years. Currently, there are no "scheduled" or planned SC officer rotations until Fall 24 to Spring 25. At this time, the following SC's would be anticipated to make officer rotations.</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Fall 2025 to Spring 2026</td> <td style="text-align: center;">Fall 2025 to Spring 2026</td> </tr> <tr> <td style="text-align: center;">HVCB</td> <td style="text-align: center;">ER&P</td> </tr> <tr> <td style="text-align: center;">HVF</td> <td style="text-align: center;">HVS</td> </tr> <tr> <td style="text-align: center;">SA</td> <td style="text-align: center;">LVSD</td> </tr> <tr> <td style="text-align: center;">T&I</td> <td style="text-align: center;">RODE</td> </tr> </table>	Fall 2025 to Spring 2026	Fall 2025 to Spring 2026	HVCB	ER&P	HVF	HVS	SA	LVSD	T&I	RODE	Doug Edwards		
Fall 2025 to Spring 2026	Fall 2025 to Spring 2026													
HVCB	ER&P													
HVF	HVS													
SA	LVSD													
T&I	RODE													
28	<p>Future PES Conferences of Interest</p> <p>IEEE-SA Awards Banquet: The 2023 Awards Banquet will be held near the IEEE offices, on Sunday 3 December in Somerset, NJ (near the IEEE Piscataway, NJ offices). Our colleague Dean Sigmon will be attending to receive the IEEE Standards Medallion Award. Ted Burse and Doug Edwards are also planning to attend and invite anyone that might be interested to attend this banquet to honor Dean.</p> <p>Link to IEEE PES Conference will be posted in minutes – URL: Conferences Search (ieee.org)</p> <p>Below is a partial list of upcoming PES conferences which may be of interest:</p> <table style="width: 100%; border: none;"> <tr> <td>2023 Fall IEEE Transformers Committee</td> <td>22 – 26 October 2023</td> <td>Kansas City</td> </tr> <tr> <td>2024 JTCM) (includes Substations)</td> <td>7 – 11 January 2024</td> <td>New Orleans</td> </tr> <tr> <td>2024 IEEE PES General Conference</td> <td>21 – 25 July 2024</td> <td>Seattle, Washington</td> </tr> <tr> <td>2024 IEEE PES T&D Conference & Expo</td> <td>6 – 9 May 2024</td> <td>Anaheim, California</td> </tr> </table>	2023 Fall IEEE Transformers Committee	22 – 26 October 2023	Kansas City	2024 JTCM) (includes Substations)	7 – 11 January 2024	New Orleans	2024 IEEE PES General Conference	21 – 25 July 2024	Seattle, Washington	2024 IEEE PES T&D Conference & Expo	6 – 9 May 2024	Anaheim, California	Doug Edwards
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29	Future Switchgear Committee Conferences	Doug Edwards
	Spring 2024: March 31 - April 4,	Westin Beach , Fort Lauderdale, FL
	Fall 2024: October 13 - 17,	OMNI Hotel , Oklahoma City, OK
	Spring 2025: April 5 – 11,	Wyndham Grand Orlando Resort Bonnet Creek , Orlando, FL
	Fall 2025: October 5 – 9,	Peppermill Resort , Reno, NV
Spring 2026: April 26 – 30,	Sheraton Sand Key Resort , Clearwater Beach, FL	
30	Adjourn	Doug Edwards
	<p>Thank to you all for a successful conference and week.</p> <p>The agenda being completed and there being no other business before the committee, the chair adjourned the conference at 5:00 pm EDT.</p>	

Role	Pref Name	Company	S21	F21	S22	F22	S23	F23	Last_6
Chair	Edwards, Doug	Siemens Industry, Inc.	X	X	X		X	X	5
Vice-Chair	Swing, Donnie	Powell Industries	X	X		X	X	X	5
Secretary	Webb, John	ABB	X	X	X	X	X	X	6
Past Chair	Flowers, Keith	Siemens Industry, Inc.	X	X	X	X	X	X	6
VM	Aristizabal, Mauricio	Hitachi ABB Power Grids	X	X	X		X	X	5
VM	Barnhart, Paul	Underwriters Laboratories	X	X	X	X	X	X	6
VM	Blake, Jacob	Hubbell Power Systems	X	X	X		X	X	5
VM	Boles, Brett	Southern Company	X		X	X	X	X	5
VM	Borck, Chris	Eaton's Power Systems Division	X			X	X		3
VM	Boyce, Russell	Eaton	X	X		X	X	X	5
VM	Bufl, Arben	Meiden America Switchgear, Inc.		X	X	X	X		4
Past Chair	Burse, Ted	Powell Industries, Inc	X	X	X	X	X		5
VM	Carne, Clint	Schneider Electric	X	X		X		X	4
VM	Caverly, Dave	Trench Ltd.	X	X					2
VM	Chen, Steven	Eaton Corporation	X		X	X	X		4
VM	Cochran, Alex	G&W Electric	X			X	X	X	4
VM	Cochran, Sterlin	G&W Electric	X	X	X	X	X	X	6
VM	Cohn, Bob	Powercon Corp.		X		X	X	X	4
VM	Collette, Luke	Duquesne Light	X	X		X	X	X	5
VM	Crawford, Mike	Mitsubishi Electric	X	X		X	X	X	5
VM	Cunningham, Jason	Southern States, LLC	X		X	X	X	X	5
VM	Darko, Kennedy	G&W Electric Co	X	X		X	X	X	5
HM	DeCesaro, Frank	DeCesaro Consulting Services	X	X	X	X	X	X	6
VM	Di Lillo, Pat	Consolidated Edison Co. of NY, Inc.	X	X		X	X	X	5
VM	Flores, Sergio	Schneider Electric Inc. USA	X	X	X	X	X	X	6
VM	Gohil, Dave	Avail Switchgear Systems	X	X		X	X	X	5
VM	Grahor, Lou	Eaton Corporation	X	X	X	X	X	X	6
VM	Harley, Jack	FirstPower Group LLC	X	X		X	X		4
VM	Hartzel, Ron	Eaton Corporation	X	X		X	X	X	5
VM	Hawkins, Tom	Siemens Industry, Inc.	X	X	X	X		X	5
VM	Haynes, Gary	ABB Inc.	X	X	X	X	X	X	6
VM	Hensberger, Jeremy	Mitsubishi Electric Power Products Inc.	X	X	X	X	X	X	6
VM	Hermosillo, Victor	GE Grid Solutions	X	X		X		X	4
VM	Hines, Jared	Eaton Corp.	X	X	X	X	X	X	6
VM	Hoss, Danny	Southern States	X	X	X		X	X	5
VM	Hrncir, Dan	Eaton	X	X	X	X	X	X	6
VM	Hunter, Jen	MEPPI	X	X		X	X	X	5
VM	Hurst, Bill	GE	X		X		X		3
VM	Hutchins, Neil	Georgia Power Company	X	X		X			3
Past Chair	Irwin, Todd	GE Grid Solutions	X	X	X		X	X	5
VM	Jarnigan, Chris	Southern Company Services	X	X		X	X	X	5
VM	Johnson, Travis	Xcel Energy		X	X	X	X		4
VM	Kaminski, John	Siemens	X	X	X	X	X		5
VM	Keels, Andy	kEElectric Engineering, PLLC	X	X				X	3
VM	Lafond, Mike	UL Solutions	X	X			X	X	4
HM	Leach, John	Consultant	X	X	X	X	X		5
VM	Liu, Hua	Southern California Edison	X	X					2
VM	Livshitz, Albert	Qualus Services	X	X	X	X		X	5
VM	Martin, Don	G&W Electric Co.	X	X		X			3
VM	McCord, Neil	KEC Precision		X	X	X	X	X	5
HM	Mitchell, Dave	Mitch and Associates		X	X	X	X	X	5
VM	Mizener, Jeff	Siemens Industry, Inc.	X	X	X	X	X	X	6
VM	Moser, Darryl	ABB	X	X	X	X	X	X	6
VM	Neighbours, Terry	ABB Inc.	X	X	X	X	X		5
VM	Parks, Owen	ABB	X	X	X	X	X	X	6
VM	Reid, Laura	Hubbell Power Systems	X	X	X		X	X	5
HM	Reigart, Carl	CDR Technical Services, LLC	X	X	X		X		4

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VM	Ricciuti, Tony	Eaton Corporation	X	X		X	X	X	5
VM	Riley, Caryn	Georgia Tech/NEETRAC	X	X	X	X	X	X	6
VM	Rokser, Ian	Eaton Corp	X	X	X	X	X	X	6
VM	Schiffbauer, Dan	Toshiba International Corporation	X			X	X	X	4
VM	Schneider, Carl	Schneider Electric	X	X	X	X		X	5
VM	Schuetz, Carl	American Transmission Company (ATC)	X	X	X	X	X	X	6
VM	Sharma, Devki	Entergy	X	X	X		X		4
Past Chair	Sigmon, Dean	Eaton Corporation	X	X	X		X		4
VM	Sippel, Kevin	Eaton Electric	X		X	X	X	X	5
VM	Skidmore, Mike	AEP	X	X		X	X		4
HM	Smith, Kirk	Retired	X	X		X		X	4
VM	Soulard, Francois	Hydro-Quebec	X	X		X	X		4
VM	Tailor, Chand	Eaton Corporation	X	X					2
VM	Trost, Karla	G&W Electric	X	X		X	X	X	5
VM	Uzelac, Nenad	G&W Electric	X	X	X		X	X	5
VM	Wactor, Michael	Powell Industries, Inc	X	X	X	X	X		5
VM	Ward, Jeff	Doble Engineering Company	X	X		X	X	X	5
VM	Wenzel, Jim	Eaton	X			X		X	3
VM	Wilkie, Eddie	Eaton	X	X		X	X	X	5
VM	Woodyard, Terry	Siemens Industry Inc.	X	X		X	X	X	5
VM	Worthington, Charles	Hubbell Power Systems	X	X	X	X	X	X	6
VM	York, Rich	Mitsubishi Electric Power Products Inc.	X	X	X	X	X	X	6
VM	Zhang, Will	Hitachi T&D Solutions, Inc.	X	X					2
NVM	Andreyo, Joseph	Southern States					X	X	2
NVM	Ashtekar, Koustubh	JST POWER EQUIPMENT			X		X	X	3
NVM	Becker, George	POWER Engineers Inc.		X	X	X	X		4
NVM	Beseda, David	S&C Electric Co.	X	X	X	X			4
NVM	Bridges, Christopher	Eaton					X	X	2
NVM	Burns, Robert	Eaton		X	X	X	X	X	5
NVM	Cary, Stephen	Eaton	X	X	X		X		4
NVM	Christian, Michael	ABB		X	X	X	X	X	5
NVM	Coldsnow, Kent	Fort Collins Utilities					X	X	2
NVM	Coziuc, Fiori	S&C Electric Company					X	X	2
NVM	Creach, Randy	AZZ Switchgear Systems	X	X	X	X	X	X	6
NVM	Davies, Stacey	Siemens		X	X		X	X	4
NVM	Di Michele, Federico	CESI S.p.A.	X	X			X	X	4
NVM	Diallo, Boubacar	SOUTHERN STATES LLC			X		X	X	3
NVM	Doroz, Arkadiusz	Eaton					X	X	2
NVM	Ekpoudom, Assian	Southern States LLC	X	X	X				3
NVM	Fleming, Brennen	Hubbell Power Systems					X	X	2
NVM	French, Chris	Eaton Corporation	X	X	X		X		4
NVM	Gerzeny, Brian	Powell Electrical Systems Inc					X	X	2
NVM	Gingrich, Paul	Avail Switchgear Systems	X	X	X				3
NVM	Hanna, Robert	JST		X	X	X		X	4
NVM	Hardy, Erin	Eaton			X		X	X	3
NVM	Hastreiter, Chris	Eaton	X	X	X	X		X	5
NVM	Hunt, Terry	Westinghouse					X	X	2
NVM	Kandel, Jackie	Powell Industries, Inc.			X		X	X	3
NVM	Kurinko, Carl	Hitachi	X			X	X	X	4
NVM	Leccia, Brad	Eaton		X	X		X		3
NVM	Leopard, Johnathan	Eaton					X	X	2
NVM	Lopez, Leo	WIKA Instrument, LP	X		X	X		X	4
NVM	Lovins, Colby	Federal Pacific		X	X		X	X	4
NVM	May, Steve	Southern Company	X	X		X	X	X	5
NVM	McGlown, Kevin	JST Power Equipment		X	X	X	X	X	5
NVM	Mckinney, Ken	Underwriters Laboratories					X	X	2
NVM	Ordein, Fernando	Dominion Energy					X	X	2

Role	Pref Name	Company	S21	F21	S22	F22	S23	F23	Last_6
NVM	Orosz, Mike	Circuit Breaker Technology & Support LLC					X	X	2
NVM	Patil, Lalit	Eaton Corporation					X	X	2
NVM	Peterson, Mark	Xcel Energy					X	X	2
NVM	Polchinski, Craig	MEPPI	X					X	2
NVM	Pounders, Anthony	Meiden America Switchgear					X	X	2
NVM	Pruitt, Al	The Durham Company	X		X		X		3
NVM	Rakus, Paul	Eaton	X	X		X		X	4
NVM	Rexroad, Aaron	Meiden America Switchgear inc.					X	X	2
NVM	Roberson, Mark	Avail Bus Systems		X	X		X	X	4
NVM	Santos, Leonel	Schneider Electric	X		X	X	X	X	5
NVM	Santulli, Jennifer	IEEE-SA			X		X	X	3
NVM	Savulyak, Victor	KEMA Laboratory	X		X	X	X	X	5
NVM	Sims, Garrett	Eaton Corp.	X	X	X	X	X	X	6
NVM	Slattery, Chris	FirstEnergy	X	X			X	X	4
NVM	Tatum, Bryan	Underwriters Laboratories					X	X	2
NVM	Thomas, Christo	SCHNEIDER ELECTRIC USA INC	X	X	X	X		X	5
NVM	Trichon, Francois	Schneider Electric		X	X	X		X	4
NVM	Weishuhn, Will	ABB		X	X		X		3
NVM	Westerdale, Matt	Bureau of Reclamation	X	X			X		3
NVM	Young, Marcus	Mitsubishi Electric	X	X			X		3
NVM	Youssef, Mina	Eaton Corporation	X					X	2
NVM	Zia, Danish	UL LLC	X	X	X	X	X	X	6
NM	Benedict, Dan	PPL						X	1
NM	Blake, Randy	Schneider Electric						X	1
NM	Castillo, Pedro	ABB						X	1
NM	Contreras Montante, Iva	ABB						X	1
NM	Cummings, Katherine	G&W Electric						X	1
NM	Guidry, Sean	OMICRON Electronics						X	1
NM	Herring, Ricky	Siemens						X	1
NM	Jensen, Darin	Southern States						X	1
NM	Khan, Umer	ABB Inc						X	1
NM	Le Roux, Robert	Cigre						X	1
NM	Meekins, Gary	Southern States						X	1
NM	Mihretu, Feven	PG&E						X	1
NM	Olivares, Roberto	Siemens						X	1
NM	Panos, Elias	PG&E						X	1
NM	Rowell, Amy	Schneider Electric						X	1
NM	Runov, Artyom	S&C Electric Canada						X	1
NM	Shocket, Abraham	ABB						X	1
NM	Sigmon, Hall	Siemens Industry, Inc.						X	1
NM	Singh, Manpreet	Southern States LLC						X	1
NM	Sullivan, Dustin	Hubbell Power Systems, Inc.						X	1
NM	Tarleton, John	Southern States, LLC						X	1
NM	Tong, Lin	TAIKAI USA SWITCHGEAR INC						X	1
NM	Wolfe, Dan	Mitsubishi Electric						X	1

Total								126
71	Voting Members							53
2	Present Past & Immediate Past Chairs							2
3	Present Honorary Members							3
<u>76</u>	<u>Qualified Attendees</u>							<u>58</u>
								Qualified Attendees Present: 58
								Quorum Calculation: 76%