

**IEEE PES SWITCHGEAR COMMITTEE
MAIN COMMITTEE BUSINESS MEETING AGENDA
Thursday, May 7, 2020
10:00 AM – 12:00 PM (CDT)**

Item	Description	Presenter
1	Call Meeting to Order	Keith Flowers – Chair
<i>Called to order by the chair at 10:02</i>		
2	Introduction of Members & Guests	Keith Flowers
<i>137 total attendees</i>		
3	Attendance and Quorum Check	Donnie Swing - Secretary
<i>83 of 138 members present (Quorum verified by Vice Chair before meeting commenced)</i>		
4	Agenda Review and Approval	Keith Flowers
<p style="text-align: center;"><i>Motion by Paul Leufkens to approve agenda</i></p> <ul style="list-style-type: none"> <i>- Seconded by Mike Lafond</i> <i>- Approved by consent</i> 		
5	Recognition of Supporters	Keith Flowers
<p><i>THANK YOU to our financial supporters!</i></p> <p><i>ABB, CESI, DNV GL KEMA, Eaton, G&W Electric, GE Grid Solutions, H-J, HICO, Hitachi T&D, Meramec, Mitsubishi Electric, NEMA, Powell Industries, S&C Electric, Schneider Electric, Siemens, Southern States</i></p>		
6	Approval of Fall 2019 Minutes	Keith Flowers
<p style="text-align: center;"><i>Motion by Ron Harzel to approve minutes</i></p> <ul style="list-style-type: none"> <i>- Seconded by Dave Gohil</i> <i>- Approved by consent</i> 		
7	Chairman's Report	Keith Flowers
<p><i>As was suggested for working group and subcommittee meetings, the agenda for this meeting has been pared down for the online setting.</i></p> <ul style="list-style-type: none"> <i>- Keith expresses gratitude for patience and continued participation in light of COVID-19 and the online meeting series necessitation. The feedback has been mostly positive so far.</i> <i>- Items such as tributes will be addressed at the Fall meeting so that they may be done in a respectful manner.</i> <i>- Paul Sullivan has stepped in as ERP Chair for Allan Morse since his unfortunate recent passing.</i> <i>- Tech Council item</i> <ul style="list-style-type: none"> <i>o A proposal for an Energy Internet Coordinating Committee is up for consideration. While still not sure if it will move forward, discussion continues. Issues with scope within O&P manual, seems to be more suited to be a Technical Committee than a Coordinating Committee.</i> <i>- Tech council has designated webex accts for use by the various Technical Committees.</i> <ul style="list-style-type: none"> <i>o Release of these webex accounts was originally slated for later in the year; however, the effort was expedited due to COVID-19 and the expected surge in virtual meeting necessity.</i> <i>o These accounts will be available to any of our working groups, task forces, study groups, etc. during the interim of the spring and fall meetings.</i> <i>o Please do not hesitate to let Keith know if you need access to it.</i> <p><i>General discussion</i></p> <p><i>Online meetings are effective tools for preparation and "dirty" work, but do not replace face-to-face meetings. A point is raised that time zone differences can create difficulties especially for those outside the US. Option for participants to call in to our face-to-face meetings is brought up. Issues with fee collection are raised.</i></p>		

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8	Switchgear Committee Financial Report	Donnie Swing - Treasurer
<p><i>Treasurer reports that the Committee is in good financial standing. Of special note is that we were able to avoid any cancellation losses at the Peppermill Resort Hotel and have successfully moved the meeting booking to the Fall 2021 session. We would like to thank the IEEE MCE team, the IEEE Emergency Management team, and the Switchgear Committee Officers for their hard work.</i></p>		
9	Standards Coordinator's Report	Michael Wactor
<p><i>See: Standards Coordinator's Report included with Main Committee minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p> <p><i>Mr. Wactor is seeking a replacement to train as he plans to retire within the next few years.</i></p>		
10	Technical Committee Program Coordinator (TCPC)	Alex Lizardo
<p><i>Kevin Sipple reports that the 2020 PES General Meeting is holding dates of meeting this year in August, but it will be in online format.</i></p> <p><i>T&D will be held in October in Chicago where we have 3 poster sessions:</i></p> <ul style="list-style-type: none"> - TLF - Temperature Performance of Mixed Gases - Comparison of IEC and IEEE Fuse Cutout Interruption documents. Call for volunteers for assist with the efforts. 		
11	Registrar's Report	Jeremy Hensberger
<p><i>Jeremy reports that it was found to be difficult to capture attendance for online series. He asks that anyone who needs a refund to do so soon. Thanks to all our supporters.</i></p>		
<u>Subcommittee Reports</u>		
12	Administrative (ADSCOM)	Doug Edwards – Vice- Chair
<p><i>C37.20.7 sponsorship issue</i></p> <ul style="list-style-type: none"> - Document will remain in SA based on a tight roll-call vote after a lengthy and spirited discussion <p><i>C37.100.2</i></p> <ul style="list-style-type: none"> - PAR for an Amendment to address recovery voltage of line dropping at >90 degrees pole discrepancy - PAR for a new Application Guide <p><i>Alex Lizardo has been announced as the Secretary for the Technology and Innovation Subcommittee.</i></p>		

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13	Education, Recognition & Publications (ERP)	Paul Sullivan		
<p><i>In the wake of the untimely passing of Allan Morse, Paul Sullivan has accepted an offer to serve as ERP chair.</i></p> <p><i>No ERP meeting was held this week.</i></p> <p><i>Any award recognitions that would have been done at this meeting will be done at the Fall meeting.</i></p> <p><i>Paul is currently working on securing presentations for Tuesday and Thursday for the Fall meeting.</i></p> <p><i>Congratulations to the following new Main Committee members:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <i>Michael Crawford Jeffrey Door Ronald Harzel Jennifer Hunter John Kaminski Owen Parks John Phouminh Richard Rohr Jeffrey Ward James Wenzel</i> </td> <td style="width: 50%; vertical-align: top;"> <i>Kennedy Darko John Harley Jared Hines Christopher Jarnigan Terry Neighbours Andrew Peterson Caryn Riley Kevin Sippel Jan Weisker Wei Zhang</i> </td> </tr> </table> <p><i>Thank you for your service and dedication to the Switchgear Committee!</i></p>			<i>Michael Crawford Jeffrey Door Ronald Harzel Jennifer Hunter John Kaminski Owen Parks John Phouminh Richard Rohr Jeffrey Ward James Wenzel</i>	<i>Kennedy Darko John Harley Jared Hines Christopher Jarnigan Terry Neighbours Andrew Peterson Caryn Riley Kevin Sippel Jan Weisker Wei Zhang</i>
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14	High Voltage Fuses (HVF)	James Wenzel		
<p><i>See: HVF Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				
15	High Voltage Switches (HVS)	Bill Hurst		
<p><i>See: HVS Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				
16	High Voltage Circuit Breakers (HVCB)	Victor Hermosillo		
<p><i>See: HVCB Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				
17	Low Voltage Switchgear Devices (LVSD)	Dan Hrcir		
<p><i>See: LVSD Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				
18	Reclosers and Other Distribution Equipment (RODE)	Francois Soulard		
<p><i>See: RODE Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				
19	Switchgear Assemblies (SA)	Tom Hawkins		
<p><i>See: SA Subcommittee Minutes (IEEE PES Switchgear minutes – Spring 2020)</i></p>				

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20	Technology and Innovation Subcommittee	Nenad Uzelac
<p><i>Met on Monday with quorum present. Alex Lizardo is announced as the new secretary for the subcommittee. 3 initiatives have been under consideration by the subcommittee</i></p> <ul style="list-style-type: none"> - <i>Proceeding with 2 of these initiatives:</i> <ol style="list-style-type: none"> 1. <i>Testing for power frequency over 200% operating voltage</i> <ul style="list-style-type: none"> • <i>White paper expected to be complete in 6-12 months.</i> 2. <i>Life cycle management aging switchgear</i> <ul style="list-style-type: none"> • <i>Planned output is a technical report</i> • <i>The scope has been defined</i> • <i>Expected project length is 2-3 years</i> - <i>Starting with the fall session, T&I will request a physical room slot at each semi-annual switchgear meeting.</i> - <i>Nenad said that the online meeting format worked particularly well for them, and thus they will continue to use.</i> 		
<u>Liaison Reports</u>		
21	Accredited Standards Committee C37	John Webb
<p><i>See: Accredited Standards Committee C37 Liaison Report (IEEE PES Switchgear minutes – Spring 2020)</i></p>		
22	Short Circuit Test Liaison of the Nations of the Americas (STLNA)	Victor Savulyak
<p><i>See: STLNA Liaison Report (IEEE PES Switchgear minutes – Spring 2020)</i></p>		
23	CIGRÉ	Nenad Uzelac
<p><i>Moved to digital format as did we. Moved August conference to virtual.</i></p> <ul style="list-style-type: none"> - <i>All papers submitted will be prerecorded and shown through webex.</i> - <i>Meetings will take place over two weeks rather than one.</i> <p><i>Face to face meeting moved to 2021 on 20 August – 25 August. 2021 is 100 years of CIGRE. Call for participation in what may change in global transmission and distribution after COVID-19.</i></p>		
<u>Old Business</u>		
24	<p>Maintain your AMS profile https://www.123signup.com/profile?Org=IPSC2</p> <p><i>Please let us know of changes of status – retirement, new job, etc.</i></p>	Keith Flowers
<p><i>Please keep up to date with email, etc.</i></p>		
<u>New Business</u>		
25	Quorum Verification	Donnie Swing
<p><i>Verified</i></p>		
26	SCC21	Keith Flowers
<p><i>C37.84.1 position paper submitted last year IEEE 1547 joint committee with SWGR/SCC to review</i></p> <ul style="list-style-type: none"> - <i>Soliciting membership</i> - <i>John Webb would like to participate</i> - <i>Allan Morse was slated to lead, so a new volunteer is needed.</i> 		

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27	SCC14	Doug Edwards
<p><i>Oversees metrification (SI). SI-10 is coming up. 947 is coming up (threads, fittings, etc.) Doug is chair of this and is soliciting interested parties.</i></p>		
28	Future PES Meetings of Interest Refer to: https://www.ieee-pes.org/meetings-and-conferences/conference-calendar	Keith Flowers
<p><i>Many conferences have cancelled and many others have gone online-only in light of COVID-19. Please follow interests at link above.</i></p>		
29	Future Switchgear Committee Meetings <ul style="list-style-type: none"> • <i>Fall 2020 (04 Oct – 08 Oct), Online Format</i> • <i>Spring 2021 (18 April – 23 April), Hilton Charlotte Univ. Place, Charlotte, NC</i> • <i>Fall 2021 (10 Oct – 14 Oct), Peppermill Resort Hotel, Reno, NV</i> • <i>Spring 2022, Disney's Grand Floridian Resort, Orlando, FL (In negotiation)</i> • <i>Fall 2022, Portland, OR (in negotiation)</i> • <i>Spring 2023, Undisclosed beach location (in negotiation)</i> • <i>Fall 2023 (08 Oct – 13 Oct), Catamaran Resort, San Diego, CA</i> • <i>Spring 2024, Another undisclosed beach location (in negotiation)</i> • <i>Fall 2024, Kansas City, MO (in negotiation)</i> 	Keith Flowers
30	Adjourn <i>Meeting adjourned</i>	Keith Flowers

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Attendance:

Role	First Name	Last Name	Company	Apr-18	Oct-18	May-19	Oct-19	May-20
Chair	Keith	Flowers	Siemens Industry, Inc.	X	X	X	X	X
Vice-Chair	Doug	Edwards	Siemens Industry, Inc.	X	X	X	X	X
Secretary	Donald	Swing	Powell Industries	X	X	X	X	X
Member	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)		X	X	X	X
Member	Paul	Barnhart	Underwriters Laboratories	X	X	X	X	X
Member	Brett	Boles	Southern Company	X	X		X	
Member	Christopher	Borck	Eaton's Power Systems Division	X		X	X	X
Member	Anne	Bosma	ABB AB	X				
Member	Russell	Boyce	Eaton	X	X	X	X	X
Member	Arben	Bufl	Hitachi T&D Solutions, Inc.	X	X	X	X	X
Member	Eldridge	Byron	Schneider Electric	X	X	X	X	X
Member	Clint	Carne	Schneider Electric	X	X	X	X	X
Member	Steven	Chen	Eaton Corporation	X	X	X	X	X
Member	Sterlin	Cochran	Oak & Shield LLC	X	X	X	X	X
Member	Robert	Cohn	Powercon Corp.	X		X	X	X
Member	Kennedy	Darko	G&W Electric Co	X	X		X	X
Member	Frank	DeCesaro	DeCesaro Consulting Services	X	X	X		X
Member	Anil	Dhawan	ComEd	X	X	X	X	
Member	Patrick	Di Lillo	Consolidated Edison Co. of NY, Inc.	X	X	X	X	X
Member	David	Dunne	Schneider Electric	X	X	X	X	X
Member	Sergio	Flores	Schneider Electric Inc. USA	X	X	X	X	X

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Member	Paul	Gingrich	AZZ Switchgear Systems	X	X	X	X	X
Member	Sahadev	Gohil	AZZ Switchgear Systems	X	X	X	X	X
Member	Lou	Grahor	Eaton Corporation	X	X	X	X	X
Member	John	Hall	Tennessee Valley Authority	X	X	X	X	X
Member	John	Harley	FirstPower Group LLC	X		X	X	X
Member	Ronald	Hartzel	Eaton Corporation	X	X	X	X	X
Member	Tom	Hawkins	Siemens Industry, Inc.	X	X	X	X	X
Member	Gary	Haynes	ABB Inc.	X	X	X	X	X
Member	Jeremy	Hensberger	Mitsubishi Electric Power Products Inc.	X	X		X	X
Member	Victor	Hermosillo	GE Grid Solutions	X	X	X	X	X
Member	Jared	Hines	Eaton Corp.	X		X	X	X
Member	Danny	Hoss	Southern States	X		X	X	X
Member	James	Houston	Southern Company Transmission	X	X	X	X	
Member	Dan	Hrcir	Eaton	X	X	X	X	X
Member	Jennifer	Hunter	MEPPI	X	X			X
Member	Roy	Hutchins	Southern Company Services	X	X	X		X
Member	Christopher	Jarnigan	Southern Company Services	X	X	X	X	
Member	Cory	Johnson	BPA		X			
Member	Travis	Johnson	Xcel Energy	X	X	X		X
Member	John	Kaminski	Siemens	X	X	X	X	X
Member	Thomas	Keels	kEElectric Engineering	X			X	
Member	Amir	Khosravi	BC Hydro	X				

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Member	Michael	Lafond	ABB	X	X	X	X	X
Member	Ward	Laubach	Laubach Associates					
Member	David	Lemmerman	PECO/Exelon	X	X			X
Member	Hua Ying	Liu	Southern California Edison	X			X	X
Member	Albert	Livshitz	CE Power Engineered Services	X	X	X	X	X
Member	Alex	Lizardo	Cargill			X	X	X
Member	Donald	Martin	G&W Electric Co.	X	X	X	X	X
Member	Frank	Mayle	Technibus, Inc.					
Member	Neil	McCord	KEC Precision	X	X		X	X
Member	Steven	Meiners	GE					
Member	Dave	Mitchell	Mitch and Associates	X	X	X		X
Member	Jeff	Mizener	Siemens Industry, Inc.	X	X	X	X	X
Member	Darryl	Moser	ABB	X	X	X	X	X
Member	Terry	Neighbours	ABB Inc.	X	X	X		X
Member	Owen	Parks	ABB	X	X	X		X
Member	Amit	Patel	GE					
Member	Thomas	Pellerito	DTE Energy		X	X	X	X
Member	Alan	Peterson	Utility Service Corporation					X
Member	John	Phouminh	PEPCO HOLDINGS, INC.		X	X	X	
Member	Carl	Reigart	CDR Technical Services, LLC	X	X	X	X	X
Member	Anthony	Ricciuti	Eaton Corporation	X	X	X	X	X
Member	Caryn	Riley	Georgia Tech/NEETRAC	X	X	X	X	X
Member	Richard	Rohr	Powell Electrical Systems	X	X	X	X	X
Member	Ian	Rokser	Eaton Corp	X	X		X	X
Member	Daniel	Schiffbauer	Toshiba International Corporation		X			X
Member	Carl	Schneider	Schneider Electric	X		X		X

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Member	Carl	Schuetz	American Transmission Company (ATC)	X	X	X	X	X
Member	Devki	Sharma	Entergy	X	X	X	X	X
Member	Sushil	Shinde	ABB Inc.	X	X		X	X
Member	Kevin	Sippel	Eaton Electric	X		X	X	X
Member	Michael	Skidmore	AEP	X	X	X	X	
Member	H.	Smith						
Member	Francois	Soulard	Hydro-Quebec	X	X	X	X	X
Member	Kyle	Stechschulte	AEP					
Member	Paul	Sullivan	DuPont	X		X	X	X
Member	Chand	Tailor	Eaton Corporation	X	X	X	X	X
Member	Karla	Trost	G&W Electric	X	X	X	X	X
Member	Nenad	Uzelac	G&W Electric	X	X	X		X
Member	Michael	Wactor	Powell Industries, Inc	X	X		X	X
Member	William	Walter	We-Energies					X
Member	Jeffrey	Ward	Doble Engineering Company	X	X	X	X	X
Member	John	Webb	ABB	X	X	X	X	X
Member	Jan	Weisker	Siemens AG	X		X	X	X
Member	James	Wenzel	Eaton		X	X	X	X
Member	Terrance	Woodyard	Siemens Industry Inc.	X	X	X		X
Member	Richard	York	Mitsubishi Electric Power Products Inc.	X	X	X	X	X
Member	Wei	Zhang	Hitachi T&D Solutions, Inc.	X	X	X	X	X
Member	Xi	Zhu	GE Energy Management	X	X		X	
Past Chair	Ted	Burse	Powell Industries, Inc	X	X		X	X
Past Chair	Ken	Edwards	FirstEnergy Corp.			X	X	X
Past Chair	Todd	Irwin	GE Grid Solutions	X	X	X	X	X
Past Chair	Dean	Sigmon	Eaton Corporation	X	X	X	X	X

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Honorary Member	Roy	Alexander	RWA Engineering			X		X
Honorary Member	John	Brunke	Dr. John H. Brunke, P.E.					
Honorary Member	Denis	Dufournet	Retired	X				
Honorary Member	Leslie	Falkingham	Vacuum Interrupters Limited	X				
Honorary Member	Lawrence	Farr	Eaton Electrical					
Honorary Member	Edward	Jankowich	Retired					X
Honorary Member	John	Leach	Consultant	X	X	X	X	X
Honorary Member	Russell	Long	Retired					X
Honorary Member	T	Olsen	Retired, formerly with Siemens Industry, Inc.	X	X			
Honorary Member	Robert	Puckett	Retired					
Honorary Member	John	Shullaw	Retired					
Honorary Member	Robert	Smith	Retired			X		X
Honorary Member	David	Stone	DTS Technical Services			X		
Guest	Mehmet	Adanur	Southern Company Services					
Guest	Mauricio	Aristizabal	ABB	X			X	X
Guest	Jacob	Blake	Hubbell Power Systems				X	X
Guest	Antone	Bonner	PAS Consulting					X
Guest	Stephen	Cary	Eaton	X	X		X	X
Guest	David	Caverly	Trench Ltd.				X	X
Guest	Lucas	Collette	Duquesne Light	X		X	X	X
Guest	Jeramie	Cooper	Eaton					X
Guest	Ryan	Copley	Tampa Electric					X

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Guest	Michael	Crawford	Mitsubishi Electric	X	X	X	X	X
Guest	Randall	Creach	AZZ Switchgear Systems		X	X	X	X
Guest	Federico	Di Michele	CESI S.p.A.		X	X	X	X
Guest	Jeffrey	Door	The H-J Family of Companies	X	X			X
Guest	Paul	Found	BC Hydro					X
Guest	Raymond	Frazier	Ameren		X			X
Guest	Christopher	French	Eaton Corporation		X	X	X	X
Guest	Peter	Glaesman	PCORE Electric Company, Inc.		X		X	X
Guest	Ilya	Glinsky	Southern California Edison	X	X			X
Guest	John	Harley	FirstPower Group LLC	X		X	X	X
Guest	Christopher	Hastreiter	Eaton			X		X
Guest	Helmut	Heiermeier	ABB	X				X
Guest	Jason	Hollander	CHA Consulting, Inc.				X	X
Guest	Bill	Hurst	GE			X	X	X
Guest	Bill	Hurst	GE			X	X	X
Guest	Rahul	Jain	S&C Electric Company		X		X	X
Guest	David	Johnson	HVCB		X	X		X
Guest	David	Johnson	HVCB		X	X		X
Guest	John	Kelly	Beureau Of Reclamation					X
Guest	John	Kelly	Beureau Of Reclamation					X
Guest	Chad	Kennedy	Schneider Electric					X
Guest	Chad	Kennedy	Schneider Electric					X

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Guest	Carl	Kurinko	ABB Inc.					X
Guest	Carl	Kurinko	ABB Inc.					X
Guest	Paul	Leufkens	Power Projects Leufkens	X		X		X
Guest	Paul	Leufkens	Power Projects Leufkens	X		X		X
Guest	Wangpei	Li	Eaton		X	X		X
Guest	Ashley	Moran	IEEE Standards Association (IEEE-SA)					X
Guest	Mirko	Palazzo	ABB					X
Guest	Mirko	Palazzo	ABB					X
Guest	Owen	Parks	ABB	X	X	X		X
Guest	Mark	Peterson	Xcel Energy	X		X		X
Guest	Craig	Polchinski	MEPPI					X
Guest	Paul	Rakus	Eaton		X	X	X	X
Guest	Laura	Reid	Hubbell Power Systems				X	X
Guest	Mark	Roberson	AZZ/Calvert		X	X	X	X
Guest	Leonel	Santos	Schneider Electric	X		X	X	X
Guest	Victor	Savulyak	DNV GL KEMA Laboratory			X	X	X
Guest	Garett	Sims	Eaton Corp.	X	X	X	X	X
Guest	Christopher	Slattery	FirstEnergy	X		X	X	X
Guest	Francois	Trichon	Schneider Electric	X			X	X
Guest	Matt	Westerdale	Bureau of Reclamation					X
Guest	William	Wilkie	Eaton		X	X	X	X

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Guest	Marcus	Young	Mitsubishi Electric Power Products, Inc.			X		X
Guest	Mina	Youssef	Eaton Corporation				X	X
Guest	Li	Yu	Eaton Corporation			X		X