

**IEEE/PES SWITCHGEAR COMMITTEE  
 MAIN COMMITTEE BUSINESS MEETING MINUTES  
 San Diego, CA USA  
 Thursday, October 10, 2019  
 10:00 AM – 12:00 PM (EDT)**

Item	Description	Presenter
1	Call Meeting to Order	Todd Irwin – Chairman
<i>Called to order at 10:00 AM.</i>		
2	Introduction of Members & Guests	Todd Irwin
<i>Self-introductions with affiliations were made by the attendees.</i>		
3	Attendance and Quorum Check <ul style="list-style-type: none"> <li>• Rosters are being passed around.</li> <li>• Sign only one.</li> <li>• Add your name and affiliation information if you are not on the list.</li> </ul>	Doug Edwards – Secretary
<i>Sign-in sheets were circulated. Quorum was verified.</i> <ul style="list-style-type: none"> <li>• 79 members + 1 Corresponding and Honorary members = 80 Main Committee Members for Quorum Check Thus 40 members required for quorum.</li> <li>• 61 members present (quorum met)</li> <li>• 66 Guest</li> <li>• 127 Total attendees</li> </ul> <i>Attendance is documented in at the end of this document and is maintained in 123Signup.</i>		
4	Agenda Review and Approval	Todd Irwin
<i>Proposed agenda was reviewed.          Motion to approve by: Allan Morse          Motion seconded by: Francois Soulard          Motion approved by consent.</i>		
5	Recognition of Supporters	Todd Irwin
<p style="color: red; font-weight: bold;"><i>THANK YOU to our financial supporters for this meeting!</i></p> <p style="color: blue; font-weight: bold;"><i>ABB, CESI, DNV GL KEMA, Eaton, G&amp;W Electric, GE Grid Solutions, H-J, HICO, Hitachi T&amp;D, Meramec, Mitsubishi Electric, NEMA, Powell Industries, S&amp;C Electric, Schneider Electric, Siemens, Southern States</i></p>		
6	Approval of <a href="#">Spring 2019 Main Committee Minutes</a>	Todd Irwin
<i>Motion to approve by: Mike Lafond          Motion seconded by: Ken Edwards          Motion approved by consent.</i>		
7	Tributes <ul style="list-style-type: none"> <li>• Don Elliott</li> </ul>	Todd Irwin
<i>Tributes provided          Minute of silence observed.</i>		
8	Chairman's Report <ul style="list-style-type: none"> <li>• Technical Council Report</li> </ul>	Todd Irwin
<i>See: Chair's Report included with Main Committee minutes          (<a href="#">IEEE PES Switchgear minutes – Fall 2019</a>)</i>		

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9	Switchgear Committee Financial Report	Doug Edwards – Treasurer
<p><i>IEEE PES Switchgear Committee is in sound financial position.</i></p> <p><i>Audit</i></p> <ul style="list-style-type: none"> <li>• <i>For 2018, Audit was successfully completed - Satisfactory.</i></li> <li>• <i>Will be executing Audits every year.</i></li> </ul>		
10	Standards Coordinator's Report	Michael Wactor – Standards Coordinator
<p><i>See: <a href="#">Standards Coordinator's Report included with Main Committee minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p> <p><i>Reminder: Request that all Subcommittee Chairs send their status updates no later than (NLT) 30 days prior to the Spring and Fall face-to-face meetings.</i></p> <p><i>In good shape.</i></p> <p><i>Few document withdrawals to be balloted.</i></p>		
11	Technical Committee Program Coordinator (TCPC)	Alex Lizardo
<p><i>The Switchgear Committee successfully presented poster sessions at the IEEE GM this past August. Additionally, several paper submissions were received for the IEEE T&amp;D Conference &amp; Expo next spring. It is important to note, since the last meeting there has been an increased participation in members or direct affiliates of the Switchgear Committee.</i></p>		
12	Registrar's Report	Jeremy Hensberger – Registrar
<p><i>See: <a href="#">Registrar's Report included with Main Committee minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p>		
<h2><b>Roster Location Check</b></h2>		

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<b><u>Subcommittee Reports</u></b>		
13	Administrative (ADSCOM)	Keith Flowers – Vice-Chair
<p><i>See: <a href="#">AdsCom Subcommittee Spring 2019 Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p> <ul style="list-style-type: none"> <li>• <i>Motion to Approve Joint sponsorship as secondary sponsor, PES Substation Committee is primary sponsor of following PAR's:</i> <ul style="list-style-type: none"> <li>○ <i>C37.122: IEEE Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV</i></li> <li>○ <i>C37.122.2 IEEE Guide for the Application of Gas-Insulated Substations 1 kV to 52 kV</i></li> <li>○ <i>C37.122.3 IEEE Guide for Sulphur Hexafluoride (SF6) Gas Handling for High-Voltage (over 1000 Vac) Equipment</i></li> <li>○ <i>P2829 Guide for Handling Non-Sulphur Hexafluoride (SF6) Gas Mixtures for High Voltage Equipment</i></li> <li>○ <i>Motion by AdsCom Chair – Keith Flowers,</i></li> <li>○ <i>Approved by voice vote.</i></li> </ul> </li> <li>• <i>Remind all WGs, C37.100.1-2019 lives. There is no need to remove references to C37.100.1-2019. There is work to revise document moving forward.</i></li> <li>• <i>Maximum Voltages</i> <ul style="list-style-type: none"> <li>○ <i>Subsequent to Spring 2019 meeting, IEEE PES Switchgear Position Paper was approved and submitted to NEMA on June 4, 2019.</i></li> <li>○ <i>For copy of IEEE PES Switchgear Position Paper, see: Main Committee Spring 2019 Minutes (<a href="#">IEEE PES Switchgear minutes – Spring 2019</a>)</i></li> <li>○ <i>After review of PES Switchgear paper (and other groups), the increase of maximum voltages requirements have been removed from current drafts.</i></li> </ul> </li> <li>• <i>1547: IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces</i> <ul style="list-style-type: none"> <li>○ <i>1547 is currently forming a ballot pool.</i></li> </ul> </li> <li>• <i>1547.1: IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems</i> <ul style="list-style-type: none"> <li>○ <i>1547.1 is in revision based on requirements in 1547.</i></li> </ul> </li> </ul>		

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14	Education, Recognition & Publications (ER&P)	Allan Morse
	<p><i>See: <a href="#">ER&amp;P Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p> <p><i>Monday: Two (2) Training sessions for 123Signup were conducted.</i></p> <p><i>Tuesday breakfast IEEE presentation – “Updates from IEEE-SA” – Ashley Moran (IEEE)</i></p> <p><i>Tuesday lunch presentation – “California Air California Air Resources Board and SF6 Emissions Tracking” – Jonathan Stewart (NEMA)</i></p> <p><i>Thursday presentation – “Shunt Reactor Switching: Theory and Practice” – David Peel</i>  <i>Box lunches (for those who purchased in advance)</i></p> <p><i>ERP is always seeking and welcomes volunteers to speak at upcoming meetings for Tuesday luncheon and Thursday technical presentations.</i></p> <p><i>Awards provided to 5 WG’s:</i></p> <ul style="list-style-type: none"> <li>○ C37.04</li> <li>○ C37.09</li> <li>○ C37.016</li> <li>○ C37.30.3</li> <li>○ C37.60</li> </ul> <p><i>Recognize Honorary Members</i></p> <ul style="list-style-type: none"> <li>• None for Fall 2019</li> </ul> <p><i>Recognize new Main Committee members</i></p> <ul style="list-style-type: none"> <li>• None in the Fall, new members promotions in the Spring</li> </ul> <p><i>Paper Review Coordinators</i></p> <ul style="list-style-type: none"> <li>• TCPC (conference papers): Alex Lizardo</li> <li>• HV Papers Coordinator: Kirk Smith</li> <li>• LV Papers Coordinator: Kevin Sippel</li> </ul> <p><i>Encourage you to write papers.</i></p> <p><i>Encouraged those who are not already Senior Members to pursue Senior Membership.</i></p>	
15	High Voltage Fuses (HVF)	James Wenzel
	<p><i>See: <a href="#">HVF Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p>	
16	High Voltage Switches (HVS)	James Houston
	<p><i>See: <a href="#">HVS Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p>	
17	High Voltage Circuit Breakers (HVCB)	Victor Hermosillo
	<p><i>See: <a href="#">HVCB Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p>	
18	Low Voltage Switchgear Devices (LVSD)	Dave Dunne
	<p><i>See: <a href="#">LVSD Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</a></i></p>	

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19	Reclosers and Other Distribution Equipment (RODE)	Francois Soulard
<i>See: RODE Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</i>		
20	Switchgear Assemblies (SA)	Tom Hawkins
<i>See: SA Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</i>		
21	Technology and Innovation (T&I) Subcommittee	Karla Trost reporting Nenad Uzelac (Chair – Absent)
<i>See: T&amp;I Subcommittee Minutes (IEEE PES Switchgear minutes – Fall 2019)</i>		
<h2>Roster Location Check</h2>		
<b><u>Liaison Reports</u></b>		
22	Accredited Standards Committee C37	John Webb
<i>See: Accredited Standards Committee C37 Liaison Report (IEEE PES Switchgear minutes – Fall 2019)</i>		
23	Short Circuit Test Liaison of the Nations of the Americas (STLNA)	Victor Hermosillo
<i>See: STLNA Liaison Report (IEEE PES Switchgear minutes – Fall 2019)</i>		
24	CIGRÉ	Nenad Uzelac (Chair – Absent)
<i>No report provided.</i>		
<b><u>Old Business</u></b>		
25	Maintain your AMS profile <a href="https://www.123signup.com/profile?Org=IPSC2">https://www.123signup.com/profile?Org=IPSC2</a>  <i>Please let us know of changes of status – retirement, new job, etc.</i>	Todd Irwin
<i>Reminder provided.</i>		
<h2>Roster Location Check</h2>		
<b><u>New Business</u></b>		
26	Quorum Verification	Doug Edwards
<i>Quorum was confirmed.</i>		
27	Switchgear Officers Rotation	Todd Irwin
<ul style="list-style-type: none"> <li>• <i>Incoming Secretary – Donnie Swing – Reported in Chairman’s report.</i></li> <li>• <i>Other officers will rotate up effective January 1, 2020.</i></li> <li>• <i>For Subcommittee Officer rotations, advise request to Chair as Chair positions are by appointment.</i></li> </ul>		
28	Future PES Meetings of Interest	Todd Irwin
<i>Refer to: <a href="https://www.ieee-pes.org/meetings-and-conferences/conference-calendar">https://www.ieee-pes.org/meetings-and-conferences/conference-calendar</a></i>		

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29	WG P&P – Entity Method	Todd Irwin
<p><i>Tech Council has instructed PES Switchgear to have WG P&amp;P Entity method.            Details are still developing. This work is targeted for 2020.</i></p>		
30	Future Switchgear Committee Meetings	Todd Irwin
<ul style="list-style-type: none"> <li>• <i>Spring 2020 (3 May – 8 May), Peppermill Resort, Reno, NV</i></li> <li>• <i>Fall 2020 (04 Oct – 08 Oct), Sheraton Sundance Square, Fort Worth, TX</i></li> <li>• <i>Spring 2021 (18 April – 23 April), Hilton Charlotte University Place, Charlotte, NC</i></li> </ul>		
31	Adjourn	Todd Irwin
<p><i>The meeting adjourned at 11:17 am.</i></p>		

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**Attendance (as recorded in 123Signup):**

<b>Role</b>	<b>LastName, FirstName</b>	<b>Company</b>	<b>10/10/2019</b>
Chair	Irwin, Todd	GE Grid Solutions	X
Vice-Chair	Flowers, Keith	Siemens Industry, Inc.	X
Secretary	Edwards, Doug	Siemens Industry, Inc.	X
Past Chair	Burse, Ted	Powell Industries, Inc	X
Past Chair	Edwards, Ken	FirstEnergy Corp.	X
Past Chair	Sigmon, Dean	Eaton Corporation	X
Member	Ambrose, Chris	Federal Pacific (Div. of Electro-Mechanical Corp.)	X
Member	Aristizabal, Mauricio	ABB	X
Member	Barnhart, Paul	Underwriters Laboratories	X
Member	Boles, Brett	Southern Company	X
Member	Borck, Christopher	Eaton's Power Systems Division	X
Member	Bosma, Anne	ABB AB	
Member	Boyce, Russell	Eaton	X
Member	Bufi, Arben	Hitachi T&D Solutions, Inc.	X
Member	Byron, Eldridge	Schneider Electric	X
Member	Carne, Clint	Schneider Electric	X
Member	Cary, Stephen	Eaton	X
Member	Chen, Steven	Eaton Corporation	X
Member	Cochran, Sterlin	Oak & Shield LLC	X
Member	Cohn, Robert	Powercon Corp.	X
Member	DeCesaro, Frank	Eaton's Power Systems Division	
Member	Dhawan, Anil	ComEd	X
Member	Di Lillo, Patrick	Consolidated Edison Co. of NY, Inc.	X
Member	Dunne, David	Schneider Electric	X
Member	Eastman, John	Franklin Electric- Grid Solutions	
Member	Flores, Sergio	Schneider Electric Inc. USA	X
Member	Foster, Robert	Megger	
Member	Gingrich, Paul	AZZ Switchgear Systems	X
Member	Gohil, Sahadev	AZZ Switchgear Systems	X
Member	Grahor, Lou	Eaton Corporation	X
Member	Hall, John	Tennessee Valley Authority	X
Member	Hawkins, Tom	Siemens Industry, Inc.	X
Member	Haynes, Gary	ABB Inc.	X
Member	Heiermeier, Helmut	ABB	
Member	Hensberger, Jeremy	Mitsubishi Electric Power Products Inc.	X
Member	Hermosillo, Victor	GE Grid Solutions	X
Member	Hoss, Danny	Southern States	X
Member	Houston, James	Southern Company Transmission	X
Member	Hrncir, Dan	Eaton	X
Member	Hutchins, Roy	Southern Company Services	
Member	Johnson, Travis	Xcel Energy	

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Member	Keels, Thomas	kElectric Engineering	X
Member	Khosravi, Amir	BC Hydro	
Member	Lafond, Michael	ABB	X
Member	Lemmerman, David	PECO/Exelon	
Member	Lewis, Bradley	AEP	
Member	Liu, Hua Ying	Southern California Edison	X
Member	Livshitz, Albert	CE Power Engineered Services	X
Member	Lizardo, Alex	Cargill	X
Member	Martin, Donald	G&W Electric Co.	X
Member	McCord, Neil	KEC Precision	X
Member	Meiners, Steven	GE	
Member	Mitchell, Dave	Mitch and Associates	
Member	Mizener, Jeff	Siemens Industry, Inc.	X
Member	Morse, Charles	Siemens Industry, Inc.	X
Member	Moser, Darryl	ABB	X
Member	Pellerito, Thomas	DTE Energy	X
Member	Reigart, Carl	CDR Technical Services, LLC	X
Member	Ricciuti, Anthony	Eaton Corporation	X
Member	Rokser, Ian	Eaton Corp	X
Member	Royster, Timothy	Dominion Energy Virginia	
Member	Schiffbauer, Daniel	Toshiba International Corporation	
Member	Schneider, Carl	Schneider Electric	
Member	Schuetz, Carl	American Transmission Company (ATC)	X
Member	Sharma, Devki	Entergy	X
Member	Shinde, Sushil	ABB Inc.	X
Member	Skidmore, Michael	AEP	X
Member	Soulard, Francois	Hydro-Quebec	X
Member	Stechschulte, Kyle	AEP	
Member	Sullivan, Paul	DuPont	X
Member	Tailor, Chand	Eaton Corporation	X
Member	Trost, Karla	G&W Electric	X
Member	Uzelac, Nenad	G&W Electric	
Member	Wactor, Michael	Powell Industries, Inc	X
Member	Walter, William	We-Energies	
Member	Webb, John	ABB	X
Member	Woodyard, Terrance	Siemens Industry Inc.	
Member	York, Richard	Mitsubishi Electric Power Products Inc.	X
Member	Zhu, Xi	GE Energy Management	X
Honorary Member	Alexander, Roy	RWA Engineering	
Honorary Member	Brunke, John	Dr. John H. Brunke, P.E.	
Honorary Member	Dufournet, Denis	Retired	
Honorary Member	Falkingham, Leslie	Vacuum Interrupters Limited	
Honorary Member	Farr, Lawrence	Eaton Electrical	



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Honorary Member	Jankowich, Edward	Retired	
Honorary Member	Leach, John	Consultant	X
Honorary Member	Long, Russell	Retired	
Honorary Member	Olsen, T	Retired, formerly with Siemens Industry, Inc.	
Honorary Member	Puckett, Robert	Retired	
Honorary Member	Shullaw, John	Retired	
Honorary Member	Smith, Robert	Retired	
Honorary Member	Stone, David	DTS Technical Services	
Guest	Armstrong, Brad	Meramec Instrument Transformer Co.	X
Guest	Beauchemin, Francis	Hydro-Quebec	X
Guest	Becker, George	POWER Engineers Inc.	X
Guest	Beseda, David	S&C Electric Co.	X
Guest	Blake, Jacob	Hubbell Power Systems	X
Guest	Caverly, David	Trench Ltd.	X
Guest	Christian, Michael	ABB	X
Guest	Claxton, Matthew	Powell Industries	X
Guest	Coletta, Justin	Powell Industries	X
Guest	Collette, Lucas	Duquesne Light	X
Guest	Crawford, Michael	Mitsubishi Electric	X
Guest	Creach, Randall	AZZ Switchgear Systems	X
Guest	Cunningham, Jason	Southern States, LLC	X
Guest	Darko, Kennedy	G&W Electric Co	X
Guest	Delfino, Daniel	General Electric	X
Guest	Di Michele, Federico	CESI S.p.A.	X
Guest	Eftink, Emily	Burns & McDonnell	X
Guest	Fender, Karl	Southern States LLC	X
Guest	French, Christopher	Eaton Corporation	X
Guest	Frye, Richard	Eaton	X
Guest	Gerzeny, Brian	Powell Electrical Systems Inc	X
Guest	Glaesman, Peter	PCORE Electric Company, Inc.	X
Guest	Guzman, Francisco	Southern California Edison	X
Guest	Harley, John	FirstPower Group LLC	X
Guest	Hartzel, Ronald	Eaton Corporation	X
Guest	Hetzer, Matthew	PEPCO	X
Guest	Hines, Jared	Eaton Corp.	X
Guest	Hollander, Jason	CHA Consulting, Inc.	X
Guest	Hurst, Bill	GE	X
Guest	Jain, Rahul	S&C Electric Company	X
Guest	Jarnigan, Christopher	Southern Company Services	X
Guest	Kaminski, John	Siemens	X
Guest	Lavrinnoff, Benedict	Kinectrics Inc	X
Guest	Lopez, Leo	WIKA Instrument, LP	X
Guest	Marzec, Peter	S&C Electric Co.	X

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Guest	May, Steven	Southern Company	X
Guest	Mulakken, Nikil	Facebook	X
Guest	Natale, Anthony	HICO America	X
Guest	Orosz, Miklos	Myers Controlled Power	X
Guest	Peterson, Andrew	ABB	X
Guest	Phan, Lise	Pacific Gas and Electric Company	X
Guest	Phouminh, John	PEPCO HOLDINGS, INC.	X
Guest	Rakus, Paul	Eaton	X
Guest	Reid, Laura	Hubbell Power Systems	X
Guest	Reyes, Roman	Bechtel	X
Guest	Riley, Caryn	Georgia Tech/NEETRAC	X
Guest	Roberson, Mark	AZZ/Calvert	X
Guest	Rohr, Richard	Powell Electrical Systems	X
Guest	Santos, Leonel	Schneider Electric	X
Guest	Savulyak, Victor	DNV GL KEMA Laboratory	X
Guest	Sims, Garrett	Eaton Corp.	X
Guest	Sippel, Kevin	Eaton Electric	X
Guest	Slattery, Christopher	FirstEnergy	X
Guest	Swing, Donald	Powell Industries	X
Guest	Toups, Vernon	Siemens	X
Guest	Trichon, Francois	Schneider Electric	X
Guest	Tuveson, Lars	Burns & McDonnell	X
Guest	van de Ligt, James	CANA High Voltage Ltd.	X
Guest	Ward, Jeffrey	Doble Engineering Company	X
Guest	Weisker, Jan	Siemens AG	X
Guest	Wen, Jerry	BC Hydro	X
Guest	Wenzel, James	Eaton	X
Guest	Wilkie, William	Eaton	X
Guest	Worthington, Charles	Hubbell Power Systems	X
Guest	Youssef, Mina	Eaton Corporation	X
Guest	Zhang, Wei	Hitachi T&D Solutions, Inc.	X