

**IEEE/PES SWITCHGEAR COMMITTEE
ADSCOM MEETING MINUTES
Online Meeting
Thursday, October 7, 2020
8:00 AM – 9:30 AM (CDT – UTC-5)**

Item	Description	Presenter
1	Call Meeting to Order <i>Called to order by Doug Edwards at 8:02am</i>	Doug Edwards – Chair
2	Introduction of Members & Guests <i>55 total attendees</i>	Donnie Swing – Secretary
3	Roll Call & Quorum Check <i>17 of 21 members were present, so quorum was achieved.</i>	Donnie Swing
4	Agenda Review and Approval <i>The agenda was sent to all members and guests via email prior to the meeting, and it was posted on the meeting screen for an additional review opportunity. Roy Alexander requested addition of New Business item to discuss forming a study group on controlled switching for which the end result would be a PAR for a guide or standard. Item 31 of this minutes' document was created. Motion by Dan Hrcncir to approve the agenda</i> <ul style="list-style-type: none"> - <i>Seconded by Tom Hawkins</i> - <i>No discussion</i> - <i>No objections</i> - <i>Approved by consent</i> 	Doug Edwards
5	Approval of Spring 2020 Minutes <i>The minutes of the Spring 2020 meeting were sent out to members and guests via email shortly after the meeting was held. A link to the meeting minutes was also provided in the agenda for this meeting, and the document was posted on the meeting screen for an additional review opportunity. Motion from Dan Hrcncir to approve Spring 2020 minutes.</i> <ul style="list-style-type: none"> - <i>Seconded by Victor Hermosillo</i> - <i>No discussion</i> - <i>No objections</i> - <i>Approved by consent</i> 	Doug Edwards
<u>Requests to ADSCOM</u>		
6	Education, Recognition & Publications (ERP) <i>No requests. Nothing to report.</i>	Paul Sullivan
7	High Voltage Fuses (HVF) <i>No requests. Nothing to report.</i>	James Wenzel
8	High Voltage Switches (HVS) <i>No requests. Jacob Blake has been selected to serve as Vice Chair and Secretary.</i>	Bill Hurst
9	High Voltage Circuit Breakers (HVCB) <i>No requests. P2880 (Standard for High Voltage Direct Current Circuit Breakers Above 3200 Vdc) request number in the C37 series. We can correct the number if it happens to be inappropriate with a PAR revision.</i> <ul style="list-style-type: none"> - <i>Subsequent to meeting, number C37.01 was assigned.</i> - <i>IEEE Christy Bahn is coordinating updates within IEEE SA.</i> 	Victor Hermosillo
10	Low Voltage Switchgear Devices (LVSD) <i>Nothing to report. No requests.</i>	Dan Hrcncir
11	Reclosers and Other Distribution Equipment (RODE) <i>No Requests. Francois will rotate out as the RODE chair, and Travis Johnson will step into the position. Frank Decesaro will serve as the secretary for the subcommittee. New WG's C37.63 and C37.74 were formed.</i>	Francois Soulard
12	Switchgear Assemblies (SA) <i>No requests.</i>	Tom Hawkins

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13	Technology and Innovation Subcommittee	Nenad Uzelac
<p><i>T&I solicited membership for two new task forces:</i></p> <ul style="list-style-type: none"> - <i>Special application of switchgear (arc furnaces, etc.). Also aims to identify gaps in standards.</i> - <i>Switchgear condition assessment, diagnostics, and end-of-life</i> <p><i>Anyone interested in participating in either of these activities please contact Nenad.</i></p> <p><i>A third task force on Influence of renewables in switchgear has already been populated and will be submitting a technical paper for the spring meeting.</i></p>		
14	Standards Coordinator Report	Michael Wactor
<p><i>Standards that will expire 31 Dec 2020</i></p> <ul style="list-style-type: none"> - <i>C37.301 (ADSCOM) (actually expired 2019)</i> <ul style="list-style-type: none"> o <i>Administratively withdrawn last year</i> o <i>PAR active through 2021</i> - <i>C37.017 (HVCB) has active PAR</i> <ul style="list-style-type: none"> o <i>Administratively withdrawn last year</i> - <i>C37.48 (HVF) has active PAR</i> - <i>C37.66 (RODE) was allowed to expire under the assumption that it would publish soon. The chair of the RODE subcommittee says that work continues.</i> <ul style="list-style-type: none"> o <i>PAR extension submitted this week</i> - <i>PARs for C37.30.1 (HVS), C37.62 (RODE), and C37.66 (RODE) scheduled to expire this year</i> <ul style="list-style-type: none"> o <i>PAR extensions submitted for 62 and 30.1</i> - <i>Deadlines for submittal are 14 August 2020 and 13 October 2020</i> - <i>Bill Hurst mentions that a request for extension will be filed for C37.30.1 (HVS)</i> - <i>Michael Wactor informs that he is nearing retirement and thus seeking a replacement to train.</i> <p><i>How to find NESCOB submittal deadlines?</i></p> <ul style="list-style-type: none"> - <i>Web search for "IEEE SASB calendar"</i> 		
Other Requests to ADSCOM		
15	Registrar	Jeremy Hensberger
<p><i>Requested that SC chairs identify any inactive working groups as a matter of housekeeping in 123Signup. The document status list may be used to report this information. Doug Edwards will share with SC officers PowerPoint slides showing groups (WG's, TF, Study Groups, etc.) in 123Signup, with request to review and advise to keep or remove the group. .</i></p> <p><i>In the interest of preventing missed communications, a question was raised about main domain names from which the 123signup emails originate so that the domain names could potentially be whitelisted by IT departments. Jeremy will get information on this topic from 123signup and share.</i></p>		
16	Webmaster	Jeff Mizener
<p><i>Issues with distribution of web links based on web filtering were noted. Company firewalls add text to links which creates problems with being resolved. URL shorteners (e.g., tiny url, bit.ly, etc.) were used but found to not be viable for many company systems. Google spreadsheet was used as this was considered the best option as it exists as an https site.</i></p> <p><i>There were a couple of misconceptions where the link on the spreadsheet led participants to a different meeting. Jeff urges everyone that creates an agenda to include meeting details in the document to avoid issues. Issues with blockages due to cyber attacks (unrelated) were raised. Schedule was blocked on some company machines, and some participants had to devise a work-around. Doug offers to manually supply information to participants that have firewall issues next time.</i></p> <p><i>The use of iMeetCentral was encouraged by several participants. Trouble with document size limit of 2MB in 123signup mailings was mentioned in favor of iMeet. Doug took an action item to schedule a training session at our next meeting, spring 2021.</i></p>		

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17	Meeting Coordinator	John Webb
<p><i>No requests. If you have registered for Reno, then your money has now been rolled to the Charlotte Spring 2021 meeting. A few refunds have been issued. Please remember to check if you have already registered when the time comes.</i></p>		
ADSCOM Working Group/Task Force Reports		
18	C37.100.1 – Common Requirements for HV Power Switchgear	John Webb
<p><i>One meeting session was held with 77 attendees and a quorum of members present. Three task forces were formed to address special issues. Participation is requested, so contact John Webb if you are interested.</i></p>		
19	PAR Study Group: C37.100.2 - Capacitor Switching Common Clauses & Application Guide	Roy Alexander
<p><i>Met on Tuesday with 24 attendees. The path forward was discussed with a recommendation to form a working group to amend C37.100.2. Roy Alexander volunteered to chair along with Neil McCord as secretary. Of particular interest in this effort is the TRV peak that occurs for a device with a long pole span in overhead line switching applications.</i></p> <p><i>Other items arose in the meeting:</i></p> <ul style="list-style-type: none"> - add to bibliography a paper that is currently pending publication - exception clause for point-on-wave closing and pre-insertion resistors that would allow proof of test circuit providing parameters necessary for test (e.g., POW closing explicitly avoids closing near the voltage crest). <p><i>Roy formally requested permission to form the working group. Doug solicited input from ADSCOM members. Mention was made of a Controlled Switching technical paper that was published recently. One member advocated tabling the vote until a document (i.e., PAR) describing the proposed activity is published to the group.</i></p>		
20	C37.100.6 - Seismic Qualification of Electrical Equipment to Conform with ASCE/SEI 7 Seismic Requirements for Nonstructural Components	Darryl Moser
<p><i>Eddie Wilkie, the working group chair, had a scheduling conflict, so the meeting was held by the secretary for the group. 6 of 10 members were present with otherwise "light" attendance.</i></p> <p><i>Subject matter experts are needed to continue work on equipment-specific annexes. Request for participation from members of C37.04, C37.21, C37.23, and C37.74 were made in particular. A report should be provided from RODE referring to additional equipment that should be included.</i></p>		
21	C37.100.7 – Guide for the Evaluation of Performance Characteristics of Non-Sulfur Hexafluoride Insulation and Arc Quenching Media for Switchgear Rated Above 1000 V	Dan Schiffbauer
<p><i>Met Tuesday for one meeting with 58 participants (no quorum). The working group chair will be requesting an additional second session for spring 2021 meetings. The document is progressing well. An iMeetCentral webpage is being maintained. The working group is coordinating with CIGRE and the Transformers Committee, and they have good representation within both of those groups. The PAR expires in 2022. Next step is internal cross-reading in effort to discover gaps. D1.2 will be ready for review before S21 meeting.</i></p> <p><i>Chair estimates that the group has two-thirds of the document done with half of the PAR time duration remaining.</i></p>		
22	C37.122.2, IEEE Guide for the Application of Gas-Insulated Substations 1 kV to 52 kV	Eldridge Byron
<p><i>Met with 25 total participants which included a quorum of members. Next meeting is planned to take place at the Substations Committee meeting. Not moving as fast as the chair would like but moving nonetheless.</i></p>		

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23	C37.122.10, Guide for Handling Non-SF6 Gas Mixtures for HV Equipment	George Becker
<p><i>During the 2020 Spring meeting, C37.122.10 (Joint sponsorship with IEEE Substations Committee) was moved from HVCB to AdsCom for IEEE Liaison Reporting. Request made of George Becker subsequent to the 2020 Spring meeting to provide Liaison report.</i></p> <p><i>Two web conferences were held over the summer with a quorum of members present at each meeting. Work plan is in place to begin assembling the document. The group is currently considering using more annexes, perhaps one for each mixture rather than incorporating everything into the body of the document. An iMeetCentral webpage is being maintained.</i></p> <p><i>The PAR expires in December 2023. The next working group meeting is planned for 4 November during Substations Committee's meeting.</i></p>		
24	C57.142: Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction	Dave Caverly
<p><i>Met on Tuesday with 7 members and 14 guests. A quorum was present. A PAR extension will be filed just in case but not thought to be needed. See working group minutes for details.</i></p> <p><i>Document is nearing ballot state. Draft 9 will be presented to the Transformers Committee since it is a joint document.</i></p>		
25	C37.301 Partial Discharge Measurements	Jean-Marc Torres
<p><i>Met with quorum. The group reports that it has made good forward progress with the draft. A PAR scope revision will be submitted soon. The next meeting of the group is planned for December.</i></p>		
26	Task Force: Coordinate C57.16 as used in Capacitor switching applications with Switchgear	Dave Caverly
<p><i>This is a document under the purview of the Transformers Committee. The group met with 5 members and 3 guests present.</i></p> <p><i>The standard expires in December 2021. A PAR extension has been applied for. The general consensus is that the document is in good shape, The draft will be presented to Transformers Committee next month and will be ready for ballot soon.</i></p>		
27	Task Force: Aging of Lubricants	Doug Edwards
<p><i>No meeting held. Nothing to report. Will be coordinating with a task force from the T&I subcommittee as well as a technical paper for aging of equipment.</i></p>		
28	Fellows Nominations Group	Paul Sullivan
<p><i>Nothing to report. Meeting was postponed due to scheduling conflicts, but the group will meet next week to hopefully find members to nominate.</i></p>		
29	Main Committee (M/C) membership – Place holder, Spring task.	Donnie Swing
<p><i>Nothing to report. Lists will be sent to each S/C chair for recommendation of members who meet requirements.</i></p>		
<u>New Business</u>		
30	Quorum Verification	Donnie Swing
<p><i>Verified via chat window and participant list.</i></p>		
31	Formation of Study Group for Controlled Switching	Roy Alexander
<p><i>Roy Alexander requests permission to form a study group to evaluate the need for developing either an application guide or recommended practices document on the subject of controlled switching. The main focus of this study group is to determine how to proceed. Roy Alexander volunteered serve as chair with Luke Coletti as secretary. A session will be added to the schedule for the spring 2021 meeting.</i></p>		
32	WG P&P – Entity Method Update	Doug Edwards
<p><i>The entity method of creating and balloting documents is not yet in practice within the Switchgear Committee, but it looms on the horizon. Please see the slideshow in the ADSCOM attachments with the Main Committee minutes.</i></p>		

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32	Guide for Thermal Monitoring of Electrical Equipment – Joint Sponsorship Request from IAS	Mike Wactor
<p><i>The committee must decide if we would like to participate as a cosponsor. Mike Wactor will report to IAS whether we want to serve as joint sponsor or simply support the development of the document. Mike stopped IAS PCIC from submitting this PAR until we provide feedback, so no document number exists yet. The scope of the proposed standard is shown below:</i></p> <p style="padding-left: 40px;"><i>“The scope of this document is to describe and advise on good practices for implementation of continuous thermal monitoring of power distribution and control equipment implemented below 38kV. Manufacturers of sensors, software, and electrical apparatus with embedded sensing and data handling capabilities are expanding their offerings at a significant rate. This provides users a broad range of options and complexities when considering objectives for these technologies and how to achieve the best return on their investments.</i></p> <p style="padding-left: 40px;"><i>Continuous monitoring of thermal status and the integrity of connections, motors, circuit breakers, switches and other electrical apparatus is increasing in use. Such practices could become the basis of condition-based maintenance practices for enhanced safety for electrical equipment. It is possible that this would be recognized to elevate personnel & equipment safety, increase operating efficiency, and lower costs.”</i></p> <p><i>Motion by Keith Flowers for the PES Switchgear Committee to communicate our willingness to cosponsor the document to PCIC</i></p> <ul style="list-style-type: none"> <i>- Seconded by Tom Hawkins</i> <i>- Discussion: none</i> <i>- Objections: none</i> <i>- Approved by consent</i> <p><i>The timeline for this activity is expected to be longer than typical switchgear document. Mike Wactor volunteers to be the liaison and will provide a draft of the PAR.</i></p>		
33	Switchgear Officers – Potential Candidate Search	Doug Edwards
<p><i>Call for interest. All positions to be considered.</i></p> <p><i>Upcoming openings include:</i></p> <ul style="list-style-type: none"> <i>• Switchgear Committee Secretary (Officer Rotation)</i> 		
34	SASB/SCC14, IEEE Standards Coordinating Committee 14 Quantities, Units, and Letter Symbols – Solicit PES Switchgear Volunteers	Doug Edwards
<p><i>Opportunities for participation in SASB/SCC14 include:</i></p> <ul style="list-style-type: none"> <i>• SI-10: Revision is coming up</i> <i>• 947: Revision is coming up.</i> <i>• Webmaster needed.</i> <i>• SCC14 and its working groups meet only via Online meetings.</i> 		
35	Items to report to Main Switchgear Committee	Doug Edwards
<p><i>Decision to cosponsor the IAS PCIC document on Thermal Monitoring of electrical equipment.</i></p>		
36	Actions & Minutes	Doug Edwards
<p><i>Subcommittee Chairs, please submit all minutes and documents to Donnie Swing by October 30.</i></p>		
37	Adjourn	Doug Edwards
<p><i>Adjourned at 9:38</i></p>		

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Role	Last Name, First Name	Company	10/18/2018	5/2/2019	10/10/2019	5/7/2020	10/8/2020
Chair	Edwards, Doug	Siemens Industry, Inc.	X	X	X	X	X
Secretary	Swing, Donald	Powell Industries	X	X	X	X	X
Past Chair	Alexander, Roy	RWA Engineering		X		X	X
Past Chair	Brunke, John	Dr. John H. Brunke, P.E.					
Past Chair	Burse, Ted	Powell Industries, Inc	X		X	X	X
Past Chair	Edwards, Ken	FirstEnergy Corp.		X	X	X	
Past Chair	Flowers, Keith	Siemens Industry, Inc.	X	X	X	X	X
Past Chair	Irwin, Todd	GE Grid Solutions	X	X	X	X	X
Past Chair	Sigmon, Dean	Eaton Corporation	X	X	X	X	X
Past Chair	Sullivan, Paul	DuPont		X	X	X	X
Member	Hawkins, Tom	Siemens Industry, Inc.	X	X	X	X	X
Member	Hensberger, Jeremy	Mitsubishi Electric Power Products Inc.	X		X	X	X
Member	Hermosillo, Victor	GE Grid Solutions		X	X	X	X
Member	Houston, James	Southern Company Transmission	X	X	X		
Member	Hrcir, Dan	Eaton			X	X	X
Member	Hurst, Bill	GE			X	X	
Member	Mizener, Jeff	Siemens Industry, Inc.	X	X	X	X	X
Member	Soulard, Francois	Hydro-Quebec	X	X	X	X	X
Member	Uzelac, Nenad	G&W Electric	X	X		X	X
Member	Wactor, Michael	Powell Industries, Inc	X		X	X	X
Member	Wenzel, James	Eaton		X	X	X	X
Honorary Member	Long, Russell	Retired				X	
Honorary Member	Olsen, T	Retired, formerly with Siemens Industry, Inc.	X				
Guest	Alvarado, Natasha	IEEE Standards Association					
Guest	Ambrose, Chris	Federal Pacific (Div. of Electro-Mechanical Corp.)	X	X	X	X	X
Guest	Aristizabal, Mauricio	ABB					X
Guest	Armstrong, Brad	Meramec Instrument Transformer Co.	X	X	X		X
Guest	Ashtekar, Koustubh	Eaton Corporation					
Guest	Auguste, Georges	Ameren MO	X				
Guest	Ayers, Roy	Nashville Electric Service					X
Guest	Barnhart, Paul	Underwriters Laboratories	X	X	X	X	
Guest	Becker, George	POWER Engineers Inc.			X		X
Guest	Berenguela, Diego	Google					
Guest	Biasse, Jean-Marc	Schneider Electric					
Guest	Blair, Thomas	Tampa Electric Company					

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Role	Last Name, First Name	Company					
Guest	Bonner, Antone	PAS Consulting					
Guest	Bosma, Anne	Hitachi ABB Power Grids					
Guest	Brignac, Andrew	Entergy					
Guest	Brogdon, Jeffrey	Georgia Transmission					
Guest	Bufi, Arben	Meiden America Switchgear, Inc.				X	
Guest	Byron, Eldridge	Schneider Electric				X	X
Guest	Carne, Clint	Schneider Electric		X	X	X	X
Guest	Cary, Stephen	Eaton				X	
Guest	Caverly, David	Trench Ltd.	X	X	X	X	X
Guest	Christian, Michael	ABB			X		
Guest	Claxton, Matthew	Powell Industries			X		
Guest	Colesanti, Michael	Google					
Guest	Coletta, Justin	Powell Industries			X		
Guest	Collette, Lucas	Duquesne Light					X
Guest	Copley, Ryan	Tampa Electric				X	
Guest	Darko, Kennedy	G&W Electric Co	X				
Guest	Dart, David	NOJAPower					
Guest	DeCesaro, Frank	DeCesaro Consulting Services				X	X
Guest	Delfino, Daniel	ABB					X
Guest	Denis, Dufournet	Retired					
Guest	Dhawan, Anil	ComEd					
Guest	Di Lillo, Patrick	Consolidated Edison Co. of NY, Inc.				X	X
Guest	Door, Jeffrey	The H-J Family of Companies					
Guest	Dullni, Edgar	retired		X			
Guest	Dunne, David	Schneider Electric	X	X	X	X	
Guest	Eastman, John	Franklin Electric- Grid Solutions					
Guest	Esco, Tanner	Eaton Corporation	X		X		
Guest	Falkingham, Leslie	Vacuum Interrupters Limited					
Guest	Fennell, Howard	Nashville Electric Service					
Guest	Flores, Sergio	Schneider Electric Inc. USA				X	X
Guest	Found, Paul	BC Hydro				X	
Guest	Frye, Richard	Eaton					X
Guest	Gatscher, Jeffrey	Schneider Electric					
Guest	Gerzeny, Brian	Powell Electrical Systems Inc			X		
Guest	Giraud, Douglas	Powell Industries					
Guest	Glinsky, Ilya	Southern California Edison				X	
Guest	Gohil, Sahadev	AZZ Switchgear Systems				X	X

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Role	Last Name, First Name	Company					
Guest	Goldberg, Jonathan	IEEE Standards Association					
Guest	Grahor, Lou	Eaton Corporation	X				
Guest	Haasz, Jodi	IEEE		X			
Guest	Hall, John	Tennessee Valley Authority					
Guest	Harley, John	FirstPower Group LLC			X	X	
Guest	Hartzel, Ronald	Eaton Corporation					
Guest	Haynes, Gary	ABB Inc.	X		X		
Guest	Hines, Jared	Eaton Corp.				X	
Guest	Hoss, Danny	Southern States LLC				X	
Guest	Hutchins, Roy	Southern Company Services		X	X		X
Guest	Jankowich, Edward	Retired					
Guest	Jarque, Jose	AZZ Switchgear Systems					
Guest	Jasinski, Joseph	ITC Holdings Corp.					
Guest	Johnson, Travis	Xcel Energy	X	X			X
Guest	Kaminski, John	Siemens	X	X	X	X	X
Guest	Kasige, Jayamali	Crown Technical Systems					
Guest	Kim, Jinho	HICO America					
Guest	Kurinko, Carl	ABB Inc.				X	
Guest	Lafond, Michael	ABB	X	X	X	X	X
Guest	Lagree, James	Eaton					
Guest	Lambert, Frank	Georgia Tech / NEETRAC					
Guest	Lau, Robert	nVent Hoffman					
Guest	Leach, John	Consultant	X	X	X		X
Guest	Leccia, Brad	Eaton					
Guest	Leufkens, Paul	Power Projects Leufkens					
Guest	Livshitz, Albert	CE Power Engineered Services				X	
Guest	Lizardo, Alex	Cargill		X	X		
Guest	Mannarino, Antonio	PSE&G					
Guest	Martin, Donald	G&W Electric Co.				X	
Guest	Martinez, Ricardo	CFE-LAPEM					
Guest	May, Steven	Southern Company			X		
Guest	McClelland, John	Technibus					
Guest	McCord, Neil	KEC Precision	X				
Guest	Mitchell, Dave	Mitch and Associates				X	
Guest	Moran, Ashley	IEEE Standards Association (IEEE-SA)		X	X	X	
Guest	Moser, Darryl	ABB	X	X		X	X
Guest	Mulcahy, Tom	Dominion Virginia Power					

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Guest	Nelson, Jeffrey	Tennessee Valley Authority					X
Guest	ONeil, Brian	RMS Energy					
Guest	Orlando, Nicholas	IEEE-SA					
Guest	Orosz, Miklos	Myers Controlled Power	X		X		
Guest	Owens, Mary	Eaton	X		X		
Guest	Palmer, Justin	ELECTRONSYSTEM MD	X				
Guest	Parsi, Sean	Dexotech	X				
Guest	Pattison, Mark	H-J Family of Companies					
Guest	Pawar, Rahul	ABB					
Guest	Poeltl, Anton	ABB					
Guest	Profir, Iulian	Rockwell Automation					
Guest	Qasem, Ahmad	Bechtel					
Guest	Rahman, Syed	The United Illuminating Company					
Guest	Rak, Thomas	PG&E					
Guest	Reddy, Samala Santosh	Powell Industries					
Guest	Reigart, Carl	CDR Technical Services, LLC					
Guest	Riley, Caryn	Georgia Tech/NEETRAC					X
Guest	Rohr, Richard	Powell Electrical Systems	X	X	X	X	X
Guest	Rokser, Ian	Eaton Corp	X		X	X	X
Guest	Rostron, Joe	Southern States LLC					
Guest	Rowell, Amy	Eaton					
Guest	Santos, Leonel	Schneider Electric					X
Guest	Sauve, Todd	Rockwell Automation					
Guest	Savulyak, Victor	DNV GL KEMA Laboratory		X	X	X	
Guest	Schiffbauer, Daniel	Toshiba International Corporation	X			X	X
Guest	Schneider, Carl	Schneider Electric		X			
Guest	Schuetz, Carl	American Transmission Company (ATC)	X	X	X	X	X
Guest	Shaikh, Moin	Siemens					
Guest	Sharma, Devki	Entergy	X	X	X		
Guest	Shinde, Sushil	Hitachi ABB Power Grids					X
Guest	Shockey, Shawn	ABB					
Guest	Sims, Garrett	Eaton Corp.					
Guest	Skidmore, Michael	AEP	X	X	X		X
Guest	Slattery, Christopher	FirstEnergy				X	
Guest	Smith, Robert	Retired				X	
Guest	Spiewak, Erin	IEEE					
Guest	Steckschulte, Kyle	AEP					

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Guest	Stone, David	DTS Technical Services		X			
Guest	Swank, James	Cooper Power Systems					
Guest	Tabakovic, Dragan	Meramec Hubbell Power Systems					
Guest	Taylor, Chand	Eaton Corporation					
Guest	Torres, Jean-Marc	G&W Electric	X	X		X	X
Guest	Trichon, Francois	Schneider Electric		X	X		X
Guest	Trost, Karla	G&W Electric	X	X	X	X	X
Guest	Tsvetanoff, Jordan	First Energy					
Guest	Venne, Bruce	Rockwell Automation					
Guest	Vonfeldt, Nick	Ameren Missouri					
Guest	Ward, Jeffrey	Doble Engineering Company	X		X	X	X
Guest	Ward, Randy	Aluma-Form					
Guest	Warren, Robert	DNV GL - KEMA Laboratories					
Guest	Webb, John	ABB	X	X	X	X	X
Guest	Weisker, Jan	Siemens AG					
Guest	Wen, Jerry	BC Hydro					
Guest	Westerdale, Matt	Bureau of Reclamation				X	X
Guest	Whitney, Michael	CSA America	X				
Guest	Wilkie, William	Eaton	X	X	X	X	
Guest	Wirz, Torsten	ABB AG				X	
Guest	Woodyard, Terrance	Siemens Industry Inc.	X	X		X	
Guest	Youssef, Mina	Eaton Corporation					X
Guest	Yu, Li	Eaton Corporation		X			X
Guest	Zhang, Wei	Hitachi T&D Solutions, Inc.					
Guest	Zia, Danish	UL LLC		X			