

**IEEE/PES SWITCHGEAR COMMITTEE
ADSCOM MEETING MINUTES
Online Meeting
Thursday, April 22, 2021
8:00 AM – 9:30 AM (CDT – UTC-5)**

Item	Description	Presenter
1	Call Meeting to Order	Doug Edwards – Chair
<i>Meeting was called to order by the chair at 8:05am.</i>		
2	Introduction of Members & Guests	Donnie Swing Secretary
<i>Total attendance was 60 participants with 18 of 22 members present.</i>		
3	Roll Call & Quorum Check	Donnie Swing - Secretary
<i>Quorum was verified by the secretary before the commencement of business.</i>		
4	Agenda Review and Approval	Doug Edwards
<p><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.</i></p> <p><i>Motion by Pat DiLillo to approve the agenda.</i></p> <ul style="list-style-type: none"> - <i>Seconded by Keith Flowers.</i> - <i>No discussion.</i> - <i>Approved by consent.</i> 		
5	Approval of Fall 2020 ADSCOM Minutes	Doug Edwards
<p><i>The minutes of the Fall 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.</i></p> <p><i>Motion by Todd Irwin to approve the Fall 2020 minutes.</i></p> <ul style="list-style-type: none"> - <i>Seconded by Bill Hurst.</i> - <i>No discussion.</i> - <i>Approved by consent.</i> 		
<u>Requests to ADSCOM</u>		
6	Education, Recognition & Publications (ERP)	Paul Sullivan
<i>No meeting was held this week due to density of schedule, but the next ERP meeting is planned within two weeks. Since award presentations are preferred to be made in-person, a large amount of recognitions and awards have accumulated during the virtual meetings. The ERP subcommittee looks forward to presenting these accolades face-to-face at the fall 2021 meeting planned for Reno.</i>		
7	High Voltage Fuses (HVF)	James Wenzel
<i>No requests to ADSCOM.</i>		

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8	High Voltage Switches (HVS)	Bill Hurst
<p><i>Bill Hurst, HVS chair, reported that there are currently working groups for both DC switches under HVS and DC breakers under HVCB. A request is made to ADSCOM to consider the possibility of a task force for a common requirements document for DC switchgear. Victor Hermosillo, HVCB chair, expressed interest in the idea and added that a ratings document was also considered once, but it didn't move forward at the time. HVCB chair will add the discussion item to the agenda for next meeting.</i></p> <p><i>Question was raised as to when the common requirements document should begin:</i></p> <ul style="list-style-type: none"> <i>a) Start work now.</i> <i>b) Wait until each group makes progress, then compare and start work.</i> <p><i>Doug Edwards asked HVCB and HVS to discuss the issue formally in the fall meeting, and ADSCOM will address then.</i></p>		
9	High Voltage Circuit Breakers (HVCB)	Victor Hermosillo
<p><i>See notes about DC common requirements document in item 8 above.</i></p> <p><i>Doug Edwards asked about a dual-logo (IEEE/IEC) document led by Les Falkingham which covers sound pressure and noise level. HVCB chair reports that he is leading an effort to coordinate with IEC so that IEC and IEEE document revision do not fall out of sync.</i></p>		
10	Low Voltage Switchgear Devices (LVSD)	Dan Hrcir
<p><i>Dan Hrcir, LVSD chair, expressed a need for an ad hoc or task force to address the standardization of terms, particularly those associated with the description of element types, i.e. drawout, removable, withdrawable, etc. Doug Edwards mentioned that a similar issue arose in the C37.20.10 working group within the SA subcommittee, and Travis Johnson added that the RODE subcommittee shares the issue as well. A cross-functional team was discussed, but it was ultimately decided that LVSD, SA, and RODE subcommittees will work independently at first, and will compare notes in the fall meetings.</i></p>		
11	Reclosers and Other Distribution Equipment (RODE)	Travis Johnson
<p><i>C37.66 was recently administratively withdrawn and thereby moved to "Inactive-Reserved" status. Travis Johnson reported that work is ongoing and that the document will be sent out for ballot soon.</i></p> <p><i>No requests to ADSCOM.</i></p>		
12	Switchgear Assemblies (SA)	Tom Hawkins
<p><i>No requests to ADSCOM.</i></p>		

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13	Technology and Innovation Subcommittee	Nenad Uzelac
<p><i>Nenad Uzelac requested help from ADSCOM to increase participation in the T&I subcommittee. Doug Edwards accepted this request, and several ideas came about:</i></p> <ul style="list-style-type: none"> - <i>Doug Edwards will coordinate with SCC14, a group which also has a small membership, since it is developing marketing material to gain participation.</i> - <i>Ashley Moran, IEEE Program Manager for the Switchgear Committee, added that IEEE-SA has marketing options available, and that an announcement could be made on the IEEE blog for a broader reach.</i> - <i>Shana Pepin, IEEE Program Manager for PES Technical Activities, may be able to assist in the effort as well by having the call for participation added to the PES newsletters.</i> - <i>Keith Flowers said that Shana also promotes webinars through the PES resource center and that we could possibly host a webinar to garner attention, perhaps a quick overview of what work is ongoing and what is planned.</i> - <i>Ted Burse added that many IEEE publications, such as the PES news update, are eager for new content.</i> - <i>A panel or poster session could be held at the PES general meetings.</i> <p><i>Doug Edwards also added that T&I work is generally of high interest due to its cutting-edge nature.</i></p>		
14	Standards Coordinator Report	Michael Wactor
<p><i>Michael Wactor reported that the following documents have exceeded their revision lives and have thus been administratively withdrawn:</i></p> <ul style="list-style-type: none"> - <i>C37.66 – PAR expires 31 Dec 2021. Working group reports that publication is expected by year-end.</i> - <i>C37.301 – PAR expires 31 Dec 2021.</i> <p><i>The following documents are scheduled to be administratively withdrawn at the end of 2021:</i></p> <ul style="list-style-type: none"> - <i>C37.10</i> - <i>C37.30.1</i> - <i>C37.30.1a</i> <p><i>The following PARs are set to expire on 31 December 2021:</i></p> <ul style="list-style-type: none"> - <i>C37.301</i> - <i>C37.66 – Plan to be published by end of year.</i> - <i>C37.68 – Plan is for summer ballot which will be resolved by fall meeting.</i> - <i>C37.75</i> <p><i>The deadline dates for consideration at this year's REVCOM/NESCOM meetings:</i></p> <ul style="list-style-type: none"> - <i>May 6</i> - <i>Aug 13</i> - <i>Sep 10</i> - <i>Oct 18</i> 		
<u>Other Requests to ADSCOM</u>		
15	Registrar	Jeremy Hensberger
<i>No requests to ADSCOM.</i>		
16	Webmaster	Jeff Mizener
<i>No requests to ADSCOM.</i>		

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17	Meeting Coordinator	John Webb
<i>No requests to ADSCOM.</i>		
<u>ADSCOM Working Group/Task Force Reports</u>		
18	C37.100.1: Common Requirements for HV Power Switchgear	John Webb
<i>John Webb reported that early-stage work is in progress, and task forces have been formed to address various issues.</i>		
19	C37.100.2 PAR Study Group: Capacitor Switching Common Clauses & Application Guide	Roy Alexander
<i>Roy Alexander reported that the group now has an approved PAR for an amendment that will address single phase voltage factors for non-simultaneous poles. Work has commenced, but the working group is waiting on a technical paper that will cover details currently in question. This paper is scheduled to be submitted this summer.</i>		
20	C37.100.6: Seismic Qualification of Electrical Equipment to Conform with ASCE/SEI 7 Seismic Requirements for Nonstructural Components	Eddie Wilkie
<i>Eddie Wilkie reported that work is progressing well and that the main body of the document is near completion. Group is currently working on annexes.</i>		
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
<i>Dan Schiffbauer reported that the working group met with a quorum of members present. The character of document was discussed due to questions recently raised about the structure and content being more akin to a technical paper than a guide. After review, it was determined that the document was within scope and did not require major edit due to this concern.</i>		
22	C37.122.2: IEEE Guide for the Application of Gas-Insulated Substations 1 kV to 52 kV	Eldridge Byron
<i>Eldridge Byron reported that the working group met with 33 attendees which included a quorum of members. Point was made that this particular document is cosponsored with the Substations Committee, so a requirement of becoming and remaining a working group member is attending all meetings. Chair reports that the working group is not having quorum issues at this time but that an issue about membership roster maintenance had been raised. Members should refer to our P&P document for guidance.</i>		

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23	C37.122.10: Guide for Handling Non-SF6 Gas Mixtures for HV Equipment	George Becker
<p><i>George Becker may not be able to continue as the Switchgear Committee liaison for this joint working group, so a search for replacement was requested. Billy Lau has been named as the new chair for the working group.</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>Dave Caverly reported that this is a liaison task force with the Transformers Committee as the lead. The guide expired last year, thus the document is currently listed as "inactive-reserved". A PAR extension request has been filed. The working group chair requested permission to go to ballot within the Transformers Committee and with their procedures. Doug Edwards advised that the working group is already empowered to do so under the Switchgear Committee's P&P. Doug also advised that the PAR extension request is not currently on NESCOM agenda.</i></p>		
25	C37.301: Partial Discharge Measurements	Sean Parsi
<p><i>Concern was expressed by multiple ADSCOM members as to the status of this document as it has already been withdrawn and its PAR expires at the end of this year. One particular concern pointed out was that the working group is waiting on a technical document that may not be published for two years. Doug Edwards suggested that the group conduct multiple interim meetings before the fall session.</i></p>		
26	C37.302: Guide for Fault Current Limiter (FCL) Testing of FCLs Rated above 1000 V AC	Mischa Steurer
<p><i>Mischa Steurer reported that the current document expires in 2025 and that he is ready to move forward with a PAR study group in the fall. In an effort to increase participation Mischa requested help from ADSCOM, specifically a broader mailing list.</i></p>		
27	Task Force: Coordinate C57.16 as used in Capacitor switching applications with Switchgear	Dave Caverly
<p><i>Dave Caverly reported that this is a Transformers Committee document which is set to expire at the end of this year. A PAR extension request to December 2022 was previously filed and accepted. The document has been cleaned up, and the working group plans to go to ballot in the fall of this year. Doug Edwards asked why the group plans to wait rather than go to ballot now. Dave Caverly responded that while his group's work is done, there is still a large amount of information in the rest of the document that must be addressed by the Transformers Committee participants.</i></p>		
28	Task Force: Aging of Lubricants	Doug Edwards
<p><i>Doug Edwards reported that no meeting was held, but the plan is to begin effort in face-to-face meetings in fall. Doug asked for volunteers to replace him as chair.</i></p>		
29	Fellows Nominations Group	Paul Sullivan
<p><i>No meeting was held, but there is a meeting scheduled for May. March 1 of next year is the deadline for submission of candidates for the 2022 selection period. The group is planning to submit a few candidates. Doug Edwards mentioned that within the fellows selection process there is a push to better recognize standards development participation.</i></p>		

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30	Main Committee (M/C) membership	Donnie Swing
<i>Donnie Swing reported that the necessary data has been compiled and that a review by the Switchgear Committee officers and subcommittee officers is all that remains.</i>		
31	C37.012 Task Force: Application of Capacitance Current Switching for AC HV CB >1000 V	Roy Alexander
<i>Roy Alexander reported that work is in progress under HVCB. While there was previously consideration to expand the scope of this work to cover all capacitance current switching devices, the current plan is to defer this effort.</i>		
32	P2969: Guide for Continuous Thermal Monitoring of Switchgear and Motor Control Centers up to 52 kV – Joint Sponsorship with IAS	Michael Wactor
<i>Michael Wactor reported that this is a IAS-led effort for which the Switchgear Committee is serving as the co-sponsor. The project now has an active PAR which is valid through 2025. A call for participation will be sent out at a later date to which Switchgear Committee participants may respond.</i>		
<u>New Business</u>		
33	Quorum Verification	Donnie Swing
<i>Quorum was confirmed.</i>		
34	Switchgear Officers – Potential Candidate Search	Doug Edwards
<i>Doug Edwards reported that the switchgear officers are currently soliciting volunteers as the rotation is scheduled for the end of this year. Mention was made about a new mentorship program for new working group leaders. Todd Irwin is the contact for the mentorship initiative.</i>		
35	SASB/SCC14, IEEE Standards Coordinating Committee 14 Quantities, Units, and Letter Symbols – Solicit PES Switchgear Volunteers	Doug Edwards
<i>Doug Edwards reported that SI10 (the “metrification group”) is an upcoming project that is a great opportunity for newly-minted Switchgear Committee participants looking to gain entry-level experience in the workings of the committee. Contact Doug if interested.</i>		
36	Items to report to Main Switchgear Committee	Doug Edwards
<i>Nothing to report.</i>		
37	Actions & Minutes	Doug Edwards
<i>Please submit minutes packages to Donnie Swing by 14 May 2021.</i>		
38	Adjourn	Doug Edwards
<i>After an approved motion to extend in order to complete the agenda, the meeting was adjourned 16 minutes late at 9:46 AM.</i>		

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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, Kenneth	Consultant	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	X
Member	Alexander, Roy	RWA Engineering	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	X
Member	Houston, James	Southern Company Transmission	X	X			
Member	Hrncir, Dan	Eaton		X	X	X	X
Member	Hurst, Bill	GE		X	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	Webb, John	ABB	X	X	X	X	X
Member	Wenzel, James	Eaton	X	X	X	X	X
Honorary Member	Long, Russell	Retired			X		
Honorary Member	Olsen, T	Retired, formerly with Siemens Industry, Inc.					
Guest	Ambrose, Chris	Federal Pacific (Div. of Electro-Mechanical Corp.)	X	X	X	X	X
Guest	Aristizabal, Mauricio	Hitachi ABB Power Grids				X	X

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Guest	Armstrong, Brad	Meramec Instrument Transformer Co.	X	X		X	
Guest	Ayers, Roy	Nashville Electric Service				X	X
Guest	Barnhart, Paul	Underwriters Laboratories	X	X	X		X
Guest	Becker, George	POWER Engineers Inc.		X		X	
Guest	Bufl, Arben	Meiden America Switchgear, Inc.			X		
Guest	Byron, Eldridge	Schneider Electric			X	X	X
Guest	Carne, Clint	Schneider Electric	X	X	X	X	
Guest	Cary, Stephen	Eaton			X		X
Guest	Caverly, David	Trench Ltd.	X	X	X	X	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	Copley, Ryan	Tampa Electric			X		
Guest	Darko, Kennedy	G&W Electric Co					
Guest	DeCesaro, Frank	DeCesaro Consulting Services			X	X	X
Guest	Delfino, Daniel	ABB				X	X
Guest	Di Lillo, Patrick	Consolidated Edison Co. of NY, Inc.			X	X	X
Guest	Dufournet, Denis	Retired					
Guest	Dullni, Edgar	retired	X				
Guest	Dunne, David	Schneider Electric	X	X	X		
Guest	Esco, Tanner	Eaton Corporation		X			
Guest	Flores, Sergio	Schneider Electric Inc. USA			X	X	X
Guest	Found, Paul	BC Hydro			X		
Guest	Frye, Richard	Eaton				X	
Guest	Gerzeny, Brian	Powell Electrical Systems Inc		X			
Guest	Glinsky, Ilya	Southern California Edison			X		
Guest	Gohil, Sahadev	AZZ Switchgear Systems			X	X	X
Guest	Haasz, Jodi	IEEE	X				
Guest	Harley, John	FirstPower Group LLC		X	X		
Guest	Hartzel, Ronald	Eaton Corporation					X
Guest	Hastreiter, Christopher	Eaton					X
Guest	Haynes, Gary	ABB Inc.		X			X
Guest	Hines, Jared	Eaton Corp.			X		
Guest	Hoss, Danny	Southern States LLC			X		
Guest	Hutchins, Neil	Georgia Power Company	X	X			

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Guest	Jain, Rahul	S&C Electric Company					X
Guest	Johnson, David	HVCB					X
Guest	Johnson, Travis	Xcel Energy	X			X	X
Guest	Kaminski, John	Siemens	X	X	X	X	X
Guest	Kinner, Robert	FirstPower Group LLC					X
Guest	Kurinko, Carl	ABB Inc.			X		
Guest	Lafond, Michael	ABB	X	X	X	X	X
Guest	Leach, John	Consultant	X	X		X	X
Guest	Livshitz, Albert	CE Power Engineered Services			X		
Guest	Lizardo, Alex	Cargill	X	X			
Guest	Martin, Donald	G&W Electric Co.			X		
Guest	May, Steven	Southern Company		X			
Guest	Milnikel, Henning	Siemens					X
Guest	Mitchell, Dave	Mitch and Associates			X		
Guest	Moran, Ashley	IEEE Standards Association (IEEE-SA)	X	X	X		X
Guest	Moser, Darryl	ABB	X		X	X	X
Guest	Nelson, Jeffrey	Tennessee Valley Authority				X	
Guest	Orosz, Miklos	Myers Controlled Power		X			
Guest	Owens, Mary	Eaton		X			
Guest	Parsi, Sean	Dexotech					
Guest	Reigart, Carl	CDR Technical Services, LLC					
Guest	Riley, Caryn	Georgia Tech/NEETRAC				X	X
Guest	Rohr, Richard	Powell Electrical Systems	X	X	X	X	X
Guest	Rokser, Ian	Eaton Corp		X	X	X	X
Guest	Santos, Leonel	Schneider Electric				X	
Guest	Savulyak, Victor	DNV GL KEMA Laboratory	X	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	Sharma, Devki	Entergy	X	X			X
Guest	Shinde, Sushil	Hitachi ABB Power Grids				X	
Guest	Skidmore, Michael	AEP	X	X		X	X
Guest	Slattery, Christopher	FirstEnergy			X		
Guest	Smith, Robert	Retired			X		X
Guest	Steurer, Michael	Florida State University					X
Guest	Stone, David	DTS Technical Services	X				

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Guest	Torres, Jean-Marc		X		X	X	
Guest	Trichon, Francois	Schneider Electric	X	X		X	
Guest	Trost, Karla	G&W Electric	X	X	X	X	X
Guest	Ward, Jeffrey	Doble Engineering Company		X	X	X	X
Guest	Westerdale, Matt	Bureau of Reclamation			X	X	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	X
Guest	Zhu, Xi	GE Energy Management					X
Guest	Zia, Danish	UL LLC	X				