PSCC Main Committee Meeting Minutes

Meeting Location:	Meeting Time:	Meeting Date:	Minutes Revised:	Minutes Approved:
Jacksonville, FL/Microsoft Teams	11:00AM ET	2023/01/12	YES	YES

Presiding Officer:	Recorded by:
James Formea, Chair	Craig Palmer, Secretary

Attendance:

Name	Affiliation	Attending via Phone (P) / Web	M/CM/G
Abira Altvater	IEEE PES	L	G
Jay Anderson	SEL	L	M
Galina Antonova	Hitachi/ABB	W	M
Alex Apostolov	Omicron	L	G
Tony Bell	Ametek	L	M
Marc Benou	Iniven	W	M
James Bougie	Alberio Energy	L	M
Dan Brancaccio	Quanta Technology	W	G
Eugenio Carvalheira	Omicron	L	G
TW Cease		W	M
Ed Cenzon	SEL	W	M
Brittany Chapman	Commonwealth Associates	W	G
Peiman Dadkhah	NuGrid Power	W	G
Tom Dahlin	SEL	L	M
Samir Darbali	NRC	W	G
David Dolezilek	SEL	W	G
Kevin Donahoe	GE	W	G
Mike Dood	SEL	W	M
Ronald Farquharson	DNP UG / MVCL	L	M
Ken Fodero	SEL	W	M
James Formea	Eaton	L	M
John Fuller	AT&T	W	M
Lou Garavaglia	G&W Electric Co	W	G
Kamal Garg	SEL	W	G
Jalal Gohari	Parsons Brinckerhoff	W	G
Allen Goldstein	NIST	W	G
Colin Gordon	SEL	L	G
Shane Haveron	Ametek	W	G
Jay Herman	EPRI	W	G
Tom Hofstetter	NERC	W	G
Daqing Hou	SEL	W	G
Yi Hu	Quanta	W	M
Chris Huntley	SEL	L	M
Byungtae Jang	Naver	W	G
Mario Jardim	Schneider Electric	W	G
Anthony Johnson	SCE	L	M
John Kay		W	G
Rick Kephart	Emerson	W	G
Mohammad Reza Khalghani	UCF	W	M

Delavar Khomarlou	Hydro One	W	M
Steve Klecker	MidAmerican Energy	W	M
Chikashi Komatsu	Hitachi	W	G
Nicholas Kraemer	NuGrid Power Group	W	G
Marc Lacroix	EMCREY Canada	W	M
Theo Laughner	Lifescale Analytics	L	M
Jason Lombardo	S&C Electric	W	G
Deepak Maragal	Eureka Power Solutions	L	G
Daniel Marquis	PNM	L	G
Aaron Martin	BPA	W	G
Ken Martin	Electric Power Group	W	M
Dave McGuire	Hubbell	W	M
Jim Michaelis	Commonwealth Associates	L	M
Scott Mix	PNNL	L	M
Hugo Monterrubio	Beckwith	W	M
Erin Morales	IEEE	W	G
Nirmal Nair		W	G
Gayle Nelms	SEL	L	G
Dan Nordell	XCEL	W	M
Jeff Pack	Power Engineers	W	G
Craig Palmer	PowerComm Solutions	L	M
Paras Patel	TRC	W	G
Alexandre Piatniczka	Hitachi	L	G
Craig Preuss	Black & Veatch	L	M
Jack Roughan	ZTT	L	M
Wayne Stec	Distregen	W	G
Malcolm Swanson	Iniven	L	M
Eric Thibodeau	Hydro Quebec	W	M
Ian Tualla	Duke	W	G
Eric Udren	Quanta Technology	L	M
Benton Vandiver	Hitachi Energy	L	M
Austin Wade	SEL	W	G
David Williams	First Energy	W	G
Malia Zaman	IEEE PES	L	G

Item no.	Notes	Action by
CALL TO ORDER, ROLL CALL, QUORUM DETERMINATION, AND APPROVAL OF AGENDA	Meeting called to order at 11:00AM Eastern time. A roll call of members was made and a quorum was achieved (34 / 40 members). The agenda was presented, and Scott Mix made a motion to approve the agenda. The motion was seconded by Jim Bougie. The motion was passed by unanimous consent.	
INTRODUCTIONS	The attendees in the room introduced themselves.	
APPROVAL OF PREVIOUS MINUTES	The regular September meeting minutes were circulated by email. Jim Bougie motioned that the minutes be approved. The motion was seconded by Scott Mix. The motion was passed by unanimous consent.	
UNFINISHED BUSINESS	No unfinished business was presented for consideration.	
NEW BUSINESS – P0	On behalf of P0 Subcommittee, Tom Dahlin made the following motion: to have P0 take over as the lead Subcommittee or responsible Standards Committee for IEEE 2030 (upon confirmation by SC21 to no longer be the lead committee). The AOR of SCC21 has changed. The responsible working group in P0 is P18/SCC21 IEEE Std 2030. Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), End-Use Applications, and Loads AOR was clarified as Area of Responsibility. After some discussion, Theo Laughner moved to amend the motion as such: to have PSCCC take over as the lead Committee or Responsible Standards Committee for IEEE 2030 (upon confirmation by SC21 to no longer be the lead committee). Jay Anderson seconded the motion. The motion carried by unanimous consent.	Tom Dahlin
NEW BUSINESS – S0	On behalf of S0 Subcommittee, Scott Mix made the following motion: for WG to form a ballot body for the standard IEEE P1711.1 – Serial SCADA Protection Protocol (SSPP) Guide for using Secure SCADA Communications Protocol (SSCP) and Serial SCADA Protection Protocol The responsible working group in S0 is S2. S2 will form a ballot body and anticipates request to go to ballot at May '23 meeting. S2 is resolving MEC comments. Theo Laughner seconded the motion. No discussion. The motion was passed by unanimous consent. A discussion on ballot pool votes occurred. It was noted that the motion may be precautionary and not required and that a clarification of procedures may indicate the vote to form a ballot pool is not required.	Scott Mix

Item no.	Notes	Action by
NEW BUSINESS – S0	On behalf of S0 Subcommittee, Scott Mix made the following motion: for Main Committee authorization for S0 officers and PSCCC Main Committee to work with IEEE SA to provide S5's current draft of C37.240 document to ISA99 WG14 for their use. The responsible working group in S0 is S5 – PC37.240 Revision of IEEE C37.240 Cyber Security Requirements for Power System Automation, Protection and Control Systems. ISA99 is Industrial Society of Automation - Industrial Automation and Control Systems Security. S5 has stalled and ISA has taken over the scope of this work. S5 wants to provide their work to ISA99/WG14 for inclusion in their work, if needed. Theo Laughner seconded the motion. No discussion. The motion was passed by unanimous consent. Ken Fodero asked for clarification: C37.240 will not be transferred to ISA. Craig Preuss noted that he has recommended against the transfer since C37.240 uses the NIST-CSF as a baseline but ISA99 WG14 does not use the NIST-CSF. There is a chance of delaying the work based on discrepancies. Scott Mix noted that ISA99 WG14 has indicated they would be receptive to the document and its contents. The motion passed with 1 dissenting vote (Craig Preuss).	Scott Mix
NEW BUSINESS – S0	On behalf of S0 Subcommittee, Scott Mix made the following motion: to withdraw the PAR for C37.240 once the draft is shared with ISA99 WG14. The responsible working group is S0 is S5. The working group will go inactive if/when PAR is withdrawn. If ISA99 work completes and S0 feels more work is required, this work will be done under a new PAR. Tony Johnson seconded the motion. No discussion. The motion was passed by unanimous consent. Discussion: ISA99 is working under IEC 62443. Its work product output is unknown at this point.	Scott Mix

Item no.	Notes	Action by

CHAIR REPORT	The new chair expressed his excitement to step into the role. He recounted his own participation in IEEE over the years and thanked the past chair.
	
	The chair remembered Dennis Holstein who passed away on October 7, 2022. Dennis was remembered as both technically astute in committee matters and someone who was also gracious and kind. Alex Apsotolov offered his remembrance of Dennis as well. Dennis will be missed.
	
	The chair then stated his goals for the PSCCC 2023- 2025:
	• Focus on consistency
	    • Develop familiarity with new/existing manuals
	    • Identify and correct deviations from our P&P and O&P
	    • Provide training and mentoring for SC and subgroup leaders
	• Strive for openness and accessibility
	    • Establish hybrid/virtual meeting access as a standard expectation
	    • Increase visibility of meetings occurring outside of face-to-face events
	    • Improve compliance with meeting notices and minutes reporting requirements
	• Develop a leadership pipeline
	    • Identify and develop leaders for future sub-group, SC, and MC officer positions
	
	The status of the PSCCC P&P and O&P was presented:
	• Standards Committee P&P
	    • *These Policies and Procedures outline the orderly transaction of standards activities of the Power System Communications and Cybersecurity Standards Committee, hereinafter referred to as "the Standards Committee."*
	    • Accepted by AudCom on December 3, 2022 & **available on PSCCC website** *(ignore incorrect date)*
	• Working Group P&P
	    • *These Policies and Procedures (P&P) outline the orderly transaction of standards activities of the Power System Communications and Cybersecurity Committee's (PSCCC) Working Groups, hereinafter referred to as "the Working Group."*
	    • Approved by PSCCC MC in September 2022 and pending submission to AudCom
	• Technical Committee O&P
	    • *This Organization and Procedures manual establishes the necessary framework for all other work of the Sponsor outside of the standardization process.*
	    • Pending review and revision by A0 and/or PSCCC Executive Officers (to be completed in 2023)
	
	The future state of Hybrid meetings:
	• PSCCC Executive Officers believe that the Committee is strengthened by the contributions of participants who are unable to travel to some or all of our face-to-face meetings
		James Formea

Item no.	Notes	Action by
CHAIR REPORT – JAMES FORMEA	• PSCCC will aim to use a single virtual platform for all virtual meetings hosted in conjunction with face-to-face meetings to provide for a consistent, centrally-managed user experience (IEEE Meetings WebEx for now, may change) • Final details on registration fee structure, access control, etc. are forthcoming; PSCCC will most likely follow PSRC's lead on registration fees and virtual meeting access control (passwords) Volunteer(s) were solicited to assist in hybrid meeting setup as the PSCCC Hybrid Meeting Coordinator. The PSCCC's new Technical Committee Program Chair (TCPC) was announced. Welcome Dr. Reza Khalghani. New liaison appointments were announced – Brittany Chapman is the new PSCCC liaison to the P3400 WG preparing *Draft Standard for Use of Inclusive Language in Technical Terminology and Communications*. Steve Klecker will assist Brittany and act as her backup in this role. A call was made for contributions / updates of interest for PAC World magazine where PSCCC has a quarterly column.	James Formea
VICE-CHAIR REPORT	No report from the Vice-Chair.	Marc Benou

SECRETARY REPORT	The secretary thanked the virtual room admins:
	• Jay Anderson
	• James Bougie
	• Tom Dahlin
	• Theo Laughner
	• Jim Michaelis
	• Scott Mix
	• Benton Vandiver
	
	Future meeting dates:
	• May 8-11, 2023 – Lax Vegas, NV
	• September 18-21, 2023 – Myrtle Beach, SC
	• January 7-11, 2024 (JTCM) – New Orleans, LA
	
	Membership highlights:
	• 40 main committee members presently
	• 5 newcomers this week
	
	Reminder of member duties:
	    • Regularly attend Main Committee meetings
	    • Participate actively in PSCCC functions
	    • Review technical papers as assigned by the Vice-Chair of the Sponsor
	    • Return Main Committee ballots promptly
	    • Ballot Main Committee standards
		Craig Palmer

Item no.	Notes	Action by
STANDARDS COORDINATOR	There are currently 28 active PARs in the PSCCC. There are 6 PARs that expire in 2023 that have not yet started balloting: • P1711.1 – Standard for Cryptographic Protocol for Cyber Security of Substation Serial Links: Substation Serial Protection Protocol • PC37.240 – Standard for Cybersecurity Requirements for Power System Automation, Protection, and Control Systems • P1591.4 – Standard for Testing and Performance of Hardware for Optical Fiber Composite Overhead Phase Conductor (OPPC) • P2808 – Standard for Function Designations used in Electrical Power Systems for Cyber Services and Cybersecurity • P1815.2 – Standard Profile for Communications with Distributed Energy Resources (DERs) using IEEE Std 1815 (Distributed Network Protocol (DNP3)) • PC37.234 – Guide for Power System Protective Relay Applications Over Digital Communication Channels Important dates for IEEE SA: • Jan 25 2023 – AudCom Meeting • Jan 30 2023 – NesCom Meeting • Jan 30 2023 – RevCom Meeting • Feb 17 2023 – NesCom Submission Deadline • Feb 17 2023 – RevCom Submission Deadline • Mar 28 2023 – AudCom Meeting • Mar 29 2023 – NesCom Meeting • Mar 29 2023 – RevCom Meeting • Apr 4 2023 – NesCom Submission Deadline • May 15 2023 – NesCom Meeting	Mike Dood
TCPC REPORT	Update on IEEE PES GM in Orlando FL, July 16-20 2023 • Conference Paper Submissions • Submissions number = 40 • Review Process: 80 reviews (two reviews per paper) • 35 reviews from our members with 14 volunteers • 45 reviews from our submissions' authors (considering conflict of interest • Transaction Submissions • Submissions number = 6 • No PSCCC Tutorials • Panel Submissions • Submissions number = 6 (2 of them accepted, 4 hrs. each) • Additional hours allocated at TCPC meeting this week, so additional panel proposals will be selected from proposals • All panel proposers should be on the lookout for emails regarding panel length for accepted panels, as well as late acceptance of panels previously not accepted • PSCCC has been asked to provide **at least one** Transaction Paper Session Chair for the 2023 GM – if you plan to attend the GM and would be willing to represent PSCCC as a session chair for Transaction Paper presentations related to our scope, please contact Reza!	Reza Khalghani

Item no.	Notes	Action by

TCPC REPORT	• Subcommittees and subgroups are welcome to prepare and display a poster at the 2023 GM poster sessions – only requirement is that a representative be present to talk to poster session attendees. If interested, please let Reza know ASAP!
	
	Panel session from PSCCC approved for IEEE PES GM:
	Panel Session Title: *Resilient Control and Operation of Power Grids against Cybersecurity Threats: Challenges and Solutions*
	• Primary Committee: PSCC
	• Subcommittee: S0 – Cybersecurity
	   – Potential Panelists: Four to five panelists from Cybersecurity subcommittee members to disseminate the group accomplishments (finalizing panelists)
	   – *Finalizing panelists covering efforts in Cybersecurity Subcommittee*
		Reza Khalghani

SUBCOMMITTEE REPORTS – C0 POWER LINE CARRIER	C1 working group continues work on IEEE-643 – Guide for Power Line Carrier Applications. C2 working group had first meeting on IEEE C93.4 – Standard for Power Line Carrier Line-Tuning Equipment (30 kHz to 500 kHz) Associated with Power Transmission Lines. A review of the 2012 document was undertaken during the meeting. The call for participation from line tuner manufacturers was re-iterated. PC57.13.9 – Standard for Power-Line Carrier Coupling Capacitors and Coupling Capacitor Voltage Transformers in the PES Transformers Committee / Instrument Transformers subcommittee has completed its ballot, and comment resolution by the working group is ongoing. A leadership update was reported: Ian Tualla will be replacing Tony Bell as Vice Chair effective May 2023.	Craig Palmer

SUBCOMMITTEE REPORTS – E0 WIRELINE	Currently 13 active and 13 Correspondence Members, with monthly consolidated SC/Working Group meetings.
	   – Currently without Secretary (medical resignation 2022).
	
	PSCCC Distinguished Service Award presented (virtually) to Percy Pool for exemplary leadership, dedicated service and exceptional technical contributions in Wire Line Subcommittee (E0) and Working Group.
	
	Liaisons to F0, IAS-PES JTCC (NFPA 70, NEC), NFPA 780, IEEE C2.
	   – Support of NFPA 70 (NEC) Article 726 – Class 4 (Fault-Managed Power Systems) and clarity of optical fiber cables installation requirements (restored to NEC Article 770).
	   – Support of emerging powering and protection solutions for distributed cellular infrastructure (including Class 4 power).
	
	Standard revisions and addendums:
	• P487.3a Amendment to *IEEE Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations Through the Use of Hybrid Facilities* - adds requirements for isolated DC power from power station to CFJ – in final stage of publishing.
		John Fuller

Item no.	Notes	Action by
SUBCOMMITTEE REPORTS – E0 WIRELINE	• P1692 revisions to *Guide for the Protection of Communication Installations from Lightning Effects* with ac powering isolation technology - ballot pool completed and balloting imminent, target publish 1H '23. • P367, revisions to IEEE Std 367-2012, *Recommended Practice for Determining the Electric Power Station Ground Potential Rise and Induced Voltage from a Power Fault*- revisions in progress, including modifications to GPR and induction calculations and examples. New inter-committee subgroup formed with first meeting Jan. 11 at JTCM, targeting completion of revisions by YE 2023. • P487a new guide, *Introductory Information for Determining the Ground Potential Rise and Induced Voltages for the Design of Communications Installations at Electric Supply Locations* – offers orientation and guidance for engineering processes addressed by IEEE 487 and 367 Standards. Target publish 2023.	John Fuller
SUBCOMMITTEE REPORTS – F0 FIBER OPTIC	New vice-chair: Jack Roughan. Thanks to Corrine Dimnick, past vice-chair. Bill Byrd received PSCCC Distinguished Service Award. Areas of responsibility are as follows. Each area is spearheaded by a technical leader. The new structure of the Subcommittee is as below: • IEEE 1222 All Dielectric Self-Supporting Cable (responsible for 1222 ADSS cable) and IEEE 1591.2: ADSS Attachment Hardware • IEEE 1138 Optical Ground Wire (responsible for 1138 OPGW cable) and IEEE 1591.1: OPGW Attachment Hardware • IEEE 1594 Helically Applied (Wrapped) Fiber Optic Cable (1594 cable and 1591.3 attachment hardware) • IEEE 1595 OPPC (1595 cable and 1591.4 attachment hardware) Accomplishment: • IEEE 1595 OPPC standard sent for publication in November 2022 Other work: • IEEE 1591.1 Optical Ground Wire (OPGW) hardware voted out of subcommittee and balloting started. PAR is extended through NESCOM to December 2023. • Optical Phase Conductor (OPPC) attachment hardware standard: 1591.4 PAR is valid until December 2023. Will be voted out of subcommittee in April 2023 meeting. New Business: • Study Group to write a PES Technical Report on considerations and tests to determine the end of life of fiber in Aerial cable (OPGW, ADSS, OPPC, Helically Applied)	Delavar Khomarlou

Item no.	Notes	Action by

SUBCOMMITTEE REPORTS – P0 PROTOCOLS AND ARCHITECTURE	P0 SC met with quorum, 27 of 40 members and 12 guests. Agenda was approved - Motion by Tony Johnson and 2nd by Scott Mix. May Hybrid meeting minutes were approved - Motion by Jay Anderson and 2nd by Jim Bougie
	
	Announcements:
	   • Reminder of the 2023 RevCom/NesCom dates
	   • Added SC Member Jason Lombardo
	
	Old business:
	   • P2WG - Requests PSCC MC guidance on correct diversity terminology for updating this standard; especially for master/slave devices.
	
	Working group reports: all active P SC groups reported on their activities; of note:
	P1WG – Revision of IEEE C37.238, "IEEE Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications Amendment". Re-circulation ballot complete and in final comment resolution.
	P9WG – Joint revision of C37.118.2 standard, (with C40 – C37.247). Balloting runs until February 2nd and WG will address comments.
	P12TF - Report on Analog Leased Line End-of-life and Migration Options. Report is complete and in the editing process.
	P15 WG Eric Thibodeau Chair – Standard Profile for Communications with DERs Using IEEE Std 1815 (DNP). PAR Extension.
	A1 – Awards and Technical Paper Recognition TF Volunteer?
	
	Future Meetings:
	P0 SC requests a room for 40 including hybrid virtual access and projector, etc..
	
	Thank you to Benton Vandiver for your dedicated service!
	Thank you to Jim Michaelis for accepting the P0 Vice Chair position!
		Tom Dahlin

Item no.	Notes	Action by
SUBCOMMITTEE REPORTS – S0 CYBERSECURITY	Met January 11, 2023 at 2:45 Eastern in City Terrace 7 Quorum achieved S1 reports that IEEE-1686 will be published Feb 7 2023. Thanks to Marc Lacroix. TFS9 – Utility IT/OT Communication Cybersecurity Challenges: reviewing comments from S0. Expects to go out in May for approval. S10 – Utility & Municipality Cybersecurity Challenges: nearly complete with report. Expects to request S0 approval in May 2023. S13 – 1547.3 Guide for Cybersecurity of DERs: in final stages of comment resolution. TFS14 – Using TLS in Power System Applications: report development continues, material on IEC-62351-9 upcoming changes was presented at WG meeting. S15 – 2030.100.2 Securing GOOSE and SV: continues development of guide. Had potential patent issue during working group meeting. Procedures were adhered to and resolution is ongoing. TFS16 – seeking writing assignment volunteers. TFS17 – Use of Software BOM in Energy Sector: work ongoing, writing assignments upcoming.	Scott Mix
A0 REPORTS – A1 AWARDS	Subcommittee chairs, vice-chairs, 1 SC member are now required to be members / backup members for the A1 Awards working group. SC should have at least one representative at A1 Awards meeting. A1 will be meeting virtually, within a few weeks after the MC meetings. Awards ceremony at PSRC/PSCC meetings in Vegas 2023. Working group chairs were reminded to submit for awards upon completion of standards work.	James Formea
A0 REPORTS – A7 WEBSITE AND MARKETING	Attendees were reminded of website location and contents, as well as social media presence, and engagement was encouraged.	Craig Palmer
LIAISON REPORTS – IEEE P3400 INCLUSIVE LANGUAGE	Draft Standard for use of Inclusive Language in Technical Terminology. The scope of the standard was presented. The group has been meeting for approximately 1 year (April 2022). The scope was clarified initially. Four subgroups were created: • Sources & definitions • Candidate terms • Principles • Processes (Brittany Chapman Chair, Steve Klecker Vice-chair) Discussion from Theo Laughner – would the IEEE SA templates help automate the process of replacing standard language? This would be helpful. The WG has discussed these technical tools but will have to make only general recommendations as to best process. P3400 working group minutes are made public and can be found online.	Brittany Chapman

Item no.	Notes	Action by
LIAISON REPORTS – P1592 RESILIENT PNT	PNT – Position, Navigation & Time PSCCC and PSRC members: • Jay Anderson, Dean Ouellette, Steve Klecker, Jeff Dagle Energy Sector use cases • Line current differential protection • Traveling wave fault location • Synchrophasors (IEC/IEEE 60255-118-1) • Sampled values (IEC 61850-9-2) • Synchronized Sequence-of-Event (SOE) logging Energy sector ready to present use cases. Discussion from Craig Preuss: is consideration given for use cases for protocols like DNP, 61850 that include timestamps? Ken replied that the group is trying to steer clear of protocols in the standard. NERC standard requirements are discussed. More discussion to be had offline.	Ken Fodero
LIAISON REPORTS – TC57	Many working groups ongoing. A matrix of groups and activities was presented. 	Marc Lacroix

The matrix presented contains the following:

IEC 62351 Part	Release	Editor	Notes and Activities	Status as of October 2022 (Completed, Pending)
IEC/IS 62351-3: Security for profiles including TCP/IP	Ed1.2, 02/2020	Fries	FDIS edition 2 in preparation	RR Ed.2 IS 11/2020, CD 07/2021, CDV 03/2022, FDIS 12/2022, IS 05/2023
IEC/IS 62351-4: Security for profiles including MMS and derivatives	Ed.1.1, 07/2020	Andersen	IS in 11/2018, AMD #1 (Ed 1.1)	IS Ed1.1 07/2020 with code components
IEC/IS 62351-5: Security for IEC 60870-5 and derivatives	2013	Grechi	FDIS for IS Ed1 in preparation	TS to IS 5/2018, WD 5/2019, CD 06/2020, CDV 06/2021, FDIS 06/2022, IS 12/2022
IEC/IS 62351-6: Security for IEC 61850 profiles	10/2020	Falk		IS 10/2020
IEC/IS 62351-7: Network and System Management data object models	2017	Carullo	Revision to edition 2 ongoing	IS 07/2017 with code components, Ed.2 RR 03/2022, CD 11/2020, CDV 06/2023
IEC/IS 62351-8: Role-Based Access Control	04/2020	Fries	RR being discussed	
IEC/IS 62351-9: Key Management	2017	Fries	FDIS for Ed.2 in preparation	RR Ed.2 IS 02/2020, CD 12/2020, CDV 12/2021, FDIS 11/2022, IS 05/2023
IEC/TR 62351-10: Security Architecture	2012	Fries		TR 10/2012
IEC/IS 62351-11: Security for XML Files	2016	Falk		IS 9/2016
IEC/TR 62351-12: Resilience + Security Rec. for Power Systems with DER	2016	Cleveland		TR 4/2016
IEC/TR 62351-13: Guidelines on Security Topics in Standards and Specs	2016	Cleveland		TR 8/2016
IEC/IS 62351-14 Cyber Security Event Logging	CD	Bose	CDV in preparation	NWIP 06/16, CD 10/2019, CD2 02/2021, CD3 12/2021, CDV 12/2022, FDIS 10/2023, IS 06/2024
IEC/IS 62351-15 Deep Packet Inspection	NWIP	Webber	will be based on IEC 62351-90-2	NWIP 10/2022, TS 10/2024
IEC/IS 62351-16 Profiles for Layer 2 Security, MACsec	NWIP	Gordon		NWIP 11/2022
IEC/TR 62351-90-1: Guidelines for Using Part 8 Roles	2018	Fries	contained in Part 8	TR 1/2018
IEC/TR 62351-90-2 Deep Packet Inspection	2018	Carullo		TR 9/2018

IEC 62351 Part	Release	Editor	Notes and Activities	Status as of October 2022 (Completed, Pending)
IEC/TR 62351-90-3 Guidelines for Network Management	2021	Carullo		TR 03/2021
IEC/TS 62351-100-1: Conformance testing IEC 62351-5 and IEC 60870-5-7	2018	Grechi/Serban	RR being discussed	RR 11/2022, TS 06/2024
IEC/TS 62351-100-3: Conformance testing IEC 62351-3	2020	Grechi/Serban	Preparation of Edition 2 following Ed.2 of IEC 62351-3	RR 11/2022, TS 12/2023
IEC/TS 62351-100-4: Conformance testing for 62351-4 with IEC 61850	DTS	Lacroix	Conformance testing for IEC 61850 client-server	NWIP 5/2018, CD 03/2021, CD2 10/2021, DTS 06/2022, TS 12/2022
IEC/TS 62351-100-4-1: Conformance testing for 62351-4 A-Profile	NWIP	Lacroix	NWIP discussed	NWIP 12/2022
IEC/TS 62351-100-6: Conformance testing for 62351-6 with IEC 61850-8-1 and 61850-9-2	2022	Lacroix	Conformance testing for IEC 61850 GOOSE, SV	TS 06/2022
IEC/TR 61850-90-19: Using RBAC and IEC 61850 (joint with WG10)	DC2	Falk	Joint effort with WG10, discussion to convert to IS	Up to WG10: DC1 3/2020, DC2 5/2021, DC3 12/2022
Application Note: Vol 1 General security and IEC 62351 descriptions, Vol 2 "What" to "How" using 62351, Vol 3 Application examples for how best to use the IEC 62351 series	White Paper	Cleveland, Fries, Dondossola	Motivation and application use cases for IEC 62351 series, development ongoing	Multi-Volume Application Note

Item no.	Notes	Action by
LIAISON REPORTS – IEEE SA	Welcome to new IEEE SA liaison Tom Thompson. Erin Morales presented on his behalf. IEEE SASB approved the requirement for SA Officers to complete Mandatory Training that went into effect June 2022 - Working Group Chair Fundamentals (WGCF) 5 hours – 0.4 CEU / 4 PDH - Understanding IEEE SA's Antitrust, Competition, and Commercial terms Policies 45 minutes – 0.1 CEU / 1 PDH You may have received a reminder email January 3rd stating that all officers (SC, WG, Subcommittee) now have until March 31st to complete the training (from the Dec 31st deadline). - If you have any questions, please contact your Program Manager IEEE SA has created FAQ surrounding Mandatory Training	Erin Morales

| LIAISON REPORTS – IEEE PES | PES is the 2nd largest IEEE technical society – over 42,000 members and 780 chapters

Mission – To be the leading provider of scientific and engineering information on electric power and energy for the betterment of society, and the preferred professional development source for our members.

Operations Manual:
• Compiles all society policies and procedures into one document
• Important resource for our volunteers
• Improves efficiency
• Enforces consistency
• Move operational items from Bylaws to ops manual
• Allows for greater flexibility

PES Website:
• New website launch by year-end
• Responsive across all platforms
• Professional, modern, and easy to navigate
• Focus on engaging members; landing pages
• Minimize pages; 1,700 down to 150
• Relaunch of the PES brand

PES Grid Edge 2023
• New tradeshow and conference, non-T&D years
• 10-13 April 2023 in San Diego (US)
• Collaborative forum, bringing together a variety of organizations helping to deliver enhanced productivity, efficiency, and interoperability to the grid.
• Cutting-edge insights from leading experts helping to maximize productivity and efficiency at the grid edge.
• Registration opens 16 December

PES Conference Review:
• Established Conference Advisory Committee
• Conducting review of conference portfolio
• Reviewing scopes, purposes, intended audiences, past results, etc.
• Identifying gaps and opportunities
• Finding overlap and potential areas for consolidation
• In-person vs virtual

Governance of Satellite Tech Committees
• Now will all report to Localized Technical Activities Committee (LTAC)
• Working with LTAC and VP of TA to ensure governance
• O&P Manual draft being reviewed – one that oversees all satellite technical committees
• Ensuring policies and procedures do not impact technical committees
• For China satellite technical committees, working closely with IEEE Beijing Office

Strategic Membership Plan
• Membership growth and engagement strategy
• Increase retention through engaging members
• Strategically grow membership globally
• New approach to membership based on how members "consume and engage" not by member type | Abira Altvater |

- Incorporates chapters
- Staff reorganization supports execution of this plan

Resources and Templates:
Check out PES Technical Activities related resources on the
IEEE PES website!
https://www.ieee-pes.org/technical-activities/committees/resources

PES Trending Tech Emails:
- Highlight a different IEEE PES Technical Committee topic each month
- Opportunity to share recent work in this area
- Topics for 2023 are all set, Thank you to all who submitted topics. Pipeline of 12 topics for 12 months built out
- Increase registrations to your upcoming events (i.e., meetings, webinars, etc.)

PES Technical Committee Marketing Highlights:
- 2022 Trending Tech Email average email open rate YTD is strong at 31.0%. Best open rate was 33.9% from March (shown). For reference, 2022 PES YTD average email open rate is 32.5%.
- 2022 social media stats YTD are shown, notable growth in total posts at +38.2%, impressions at +28.8% & engagement at +50.2% compared to 2021.
- Best performing engagement social media post in 2022 YTD by channel are shown.

Summary of selection of memberplanet:
- 123Signup shut down occurred on December 31, 2021
- During July – October 2021, an ad hoc committee of Technical Committee leads met bi-weekly to develop a formal request for proposal (RFP), research suppliers, schedule demos, and review proposals to replace 123Signup services.
- In October 2021, the ad hoc committee decided upon memberplanet and sent their decision to the IEEE PES Technical Council Officers and VP of Technical Activities for review and approval.
- Decision to proceed with memberplanet as the new Association Management System (AMS) for IEEE PES Technical Council was approved in November 2021 by VP of Technical Activities. Memberplanet will be required of all PES Tech & Coordinating Committees to use to maintain their rosters and attendance moving forward per the PES Tech Council O&P Manual.
- IEEE PES Executive Office will cover the cost of the annual contract for the memberplanet tool as part of the 2022 PES Budget except for pass-through charges for those technical committees who also choose to use the event registration features for their paid meetings (i.e. credit card transaction fees, badge creation fees, etc.)

Review of memberplanet data collection and next steps:
- S. Pepin sent emails on November 16 & 30, 2021 to pes-tech@ieee.org listserv to alert PES Tech Council of the 123Signup shut down and urge all technical & coordinating committees to extract all data and reports they would need to transition into MemberPlanet before 123Signup's shutdown on Dec. 31, 2021
- OneDrive folders were set up by S. Pepin for each of the 17 Tech Cmtes & 4 Coordinating Committees and Tech Council to aggregate all relevant excel

Item no.	Notes	Action by
	reports either from123Signup or wherever they were being maintained • Next Steps: When Memberplanet is ready for profiles to be integrated (Estimated Q1 2023), an email will be sent to all Tech Committee Chairs (which can then be forwarded to Subcommittee Chairs) asking Tech Committee members to create a profile in Memberplanet. This is mandatory. No profiles will be exported. • Each Committee Chair (and Subcommittee Chair), can then go into MemberPlanet and build out their committee structures. • Each Committee Chair (Admin) will be provided access to pull in existing member records via an email upload or via manual selection from existing member records	
LIAISON REPORTS – iGet	iGet Scope was presented. Develops tutorials, conference papers, and white papers – does not develop standards. iGet topics: • Electric machinery • Energy Development & Power Generation • Insulated conductors • Power system analysis, computing and economics • Power system communications • Power system relaying • Energy Storage • Smart Grid • Substations • Switchgear • Transformers • Transmission & Distribution • Power systems instrumentation & measurement • Other technologies as appropriate Links to webinars: Webex meeting recording: IEEE IGET: Synchronized Waveforms – A Frontier of Data-Based Power System and Apparatus Monitoring, Protection, -20221202 1805-1 Recording link: https://ieeemeetings.webex.com/ieeemeetings/ldr.php?RCID=250636507a44a3b129cccbd78e511537 Webex meeting recording: Emerging Standard: IEEE P2418.5 Blockchain for Energy-20221028 1711-1 Recording link: https://ieeemeetings.webex.com/ieeemeetings/ldr.php?RCID=cd81986acf0bfa773ac2333ada3d1225	Theo Laughner

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LIAISON REPORTS – IEEE DIGITAL PRIVACY INITIATIVE	DPI is concerned with the privacy of individuals and their data, not the privacy of technologies. Energy Industry subgroup is forming in 2023. DPI looking for suggestions from PES on good candidates for the subgroup leadership. IEEE Panel on Electrical Vehicle Charging Data Virtual, 7 December 2022 DPI work ongoing and will look to generate concrete outputs.	Craig Preuss
CLOSING ANNOUNCEMENTS	Marc Benou highlighted the benefits of hybrid meeting availability. Alex Apostolov made a call for PAC World conference participation. Having exhausted the list of agenda items and upon reaching the end of the Agenda, the chair adjourned the meeting.	James Formea