

PSCC Main Committee Meeting Minutes

Meeting Location: Buffalo, NY/Webex	Meeting Time: 11:00AM ET	Meeting Date: 2024/05/16	Minutes Revised: --	Minutes Approved:
Presiding Officer: James Formea, Chair		Recorded by: Craig Palmer, Secretary		
Attendance:				
Name		Affiliation	Attending via Phone (P) / Web	M/CM/G
Abira Altvater	IEEE PES	W	G	
Jay Anderson	SEL	W	M	
Galina Antonova	Hitachi	L	M	
Yohann Beaulieu	Hydro Quebec	L	G	
Tony Bell	Ametek	L	M	
Marc Benou	Iniven	L	M	
Bill Byrd	Retired	W	M	
Steven Blair	Synaptec	L	G	
James Bougie	Alberio Energy	L	M	
Hao Chen	IEEE PSCCC-China	W	G	
Jeff Dagle	PNNL	W	G	
Tom Dahlin	SEL	L	M	
Milo Daub	Mesa Assoc.	L	G	
Darren Deronde	Tesco	W	G	
David Dolezilek	SEL	L	G	
Mike Dood	SEL	L	M	
Lily Fan	IEEE PSCCC-China	W	G	
Ron Farquharson	DNP-UG	L	M	
Ken Fodero	SEL	W	M	
James Formea	Eaton	L	M	
John Fuller	Retired	W	M	
Jonathan Goldberg	IEEE SA	L	G	
Ethan Grindle	ATC	W	G	
Paul Harris	Pacificorp	L	G	
Shane Haveron	Ametek	L	M	
Yi Hu	Quanta	L	M	
Chris Huntley	SEL	L	M	
Anthony Johnson	Southern California Edison	L	M	
M. Reza Khalghani	Florida Polytechnic Univ.	W	M	
Del Khomarlou	Hydro One	W	M	
Nicholas Kraemer	NuGrid Power	W	G	
Theo Laughner	Lifescale Analytics	W	M	
Deepak Maragal	LND Technical Services	L	M	
Ken Martin	EPG	L	M	
Mark McChesney	Oncor	L	G	
Bill McCoy	Consultant	W	M	
Jim Michaelis	Commonwealth Associates	L	M	
Scott Mix	PNNL	L	M	
Priyanka Nadkar	SEL	L	G	

Gayle Nelms	SEL	L	G
Jeff Pack	Power Engineers	L	M
Craig Palmer	PowerComm Solutions	L	M
Charles Pestell	Powell	L	G
Farnoosh Rahmatian	NuGrid Power	W	G
Dan Ransom	GE	W	G
Randy Roberts	Southern Company	L	G
Jose Ruiz	Doble Engineering	L	G
Mal Swanson	Iniven	L	M
Jonathan Sykes	Quanta	L	G
Eric Thibodeau	Hydro Quebec	L	M
Ian Tualla	Duke Energy	L	M
Eric Udren	Quanta	L	M
Benton Vandiver	Hitachi	L	M
Marcos Velazquez	Doble	L	G

Item no.	Notes	Action by
CALL TO ORDER	Meeting called to order at 11:00AM Eastern time.	James Formea
INTRODUCTIONS	The attendees introduced themselves. 52 attendees (end-of-meeting total). Local: 37 attendees (23 members); web: 15 attendees (8 members).	Attendees
ROLL CALL, QUORUM DETERMINATION	A roll call of members was made and a quorum was determined with 28 members.	James Formea
APPROVAL OF AGENDA	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.	James Formea
APPROVAL OF PREVIOUS MINUTES	The regular January 2024 meeting minutes were circulated by email. Eric Thibodeau made a motion to approve the minutes with editorial changes. Mal Swanson second. The motion was passed by unanimous consent.	James Formea
PSCCC TECHNICAL COMMITTEE O&P MANUAL UPDATE	Draft circulated to PSCCC members. Minor editorial modifications made since then. Scott Mix move to approve the draft and send to Tech Council. Jim Michaelis second. No discussion. Thanks to Past Chair Craig Preuss for leading work on the O&P update.	James Formea
SUBCOMMITTEE REQUESTS – F0 – IEEE 1222-2019	<p>An error has been found with aeolian vibration test cycles in <i>IEEE 1222-2019 IEEE Standard for Testing and Performance for All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable for Use on Electric Utility Power Lines</i>. The WG would like to correct the error via corrigendum.</p> <p>Motion: The SC seeks MC approval to submit a PAR for approval to generate a corrigendum to IEEE-1222-2019 to correct an error found with aeolian vibration test cycles.</p> <p>Jim Bougie second.</p> <p>Motion carried by unanimous consent.</p>	Delavar Khomarlou

Item no.	Notes	Action by
<p>SUBCOMMITTEE REQUESTS – F0 – IEEE 1591.1-2024</p>	<p>An error has been identified in <i>IEEE-1591.1 IEEE Standard for Testing and Performance of Hardware for Optical Ground Wire</i> (Figure 4 – Short Circuit Tests). The WG would like to correct the error via corrigendum.</p> <p>Motion: The SC seeks MC approval to submit a PAR for approval to generate a corrigendum to IEEE-1591.1-2024 to correct an error found in Figure 4.</p> <p>Eric Thibodeau second.</p> <p>Motion carried by unanimous consent.</p>	<p>Delavar Khomarlou</p>
<p>SUBCOMMITTEE REQUESTS – P0 – P15 WG IEEE 1815.2</p>	<p>Motion: The SC seeks MC approval to submit D7 draft of P1815.2 as adopted by P15 Working Group to balloting, pending the MEC review.</p> <p>Eric Thibodeau second.</p> <p>Motion carried by unanimous consent.</p>	<p>Tom Dahlin</p>
<p>SUBCOMMITTEE REQUESTS – S0 – IEEE 1686-2022</p>	<p>Need for more clarity in definitions has been identified, for example “value forcing” versus “control operation”. Some references are out-of-date.</p> <p>Motion: The SC seeks MC approval to submit a PAR requesting authorization to prepare a corrigendum to IEEE 1686-2022 using the existing title, scope, and purpose of the current standard.</p> <p>Ron Farquharson second.</p> <p>Motion carried by unanimous consent.</p>	<p>Scott Mix</p>
<p>A1TF – AWARDS</p>	<p>Awards issued Monday:</p> <p><i>Completed Working Groups:</i> F1 - Paul Baird, Chair; John Jones, VC F2 - Bruce Magruder, Chair; Will Knappek, VC F3 - John Jones, Chair; Robert Kluge VC F4 - Jack Roughan, Chair; Josep Martin Regalado, VC P1 - Chris Huntley, Chair; Jay Anderson, VC P12 - Marc Benou, Chair; Dave McGuire, VC S1 - Marc Lacroix, Chair; Eric Thibodeau, VC S9 - Theo Laughner, Chair; Brian Smith, VC</p> <p><i>2023 PSCCC Outstanding Standard or Guide:</i> WG: F4 Title: <i>IEEE 1595-2022 Standard for Testing and Performance of Optical Phase Conduction (OPPC) for Use on Electrical Utility Power Lines</i> Officers: Jack Roughan, Chair; Josep Martin Regalado, Vice Chair</p>	<p>James Formea (for Hugo Monterrubio)</p>

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<p>CHAIR REPORT</p>	<p>Fellows Coordinator: Per draft O&P, PSCCC seeking one or more volunteers from our small group of Fellows-grade participants to serve as PSCCC's Fellows Coordinator(s) (<i>pending approval of draft O&P</i>). If you are a currently an IEEE Fellow, even if you don't want to take on this role, please send an email to James or Craig so we can make a note in our roster (ALL IEEE Fellows participating in our activities, not just voting main committee members!)</p> <p>Chair's goals for 2023-2025 and self-assessed progress:</p> <p><i>Focus on consistency</i> Develop familiarity with new/existing manuals - Progress: 67% Identify and correct deviations from our P&P and O&P - Progress: 67% Provide training and mentoring for SC and subgroup leaders - Progress: 33%</p> <p><i>Strive for openness and accessibility</i> Establish hybrid/virtual meeting access as a standard expectation - Progress: 99% Increase visibility of meetings occurring outside of face-to-face events - Progress: 33% Improve compliance with meeting notices & minutes reporting requirements - Progress: 67%</p> <p><i>Develop a leadership pipeline</i> Identify and develop leaders for future sub-group, SC, & MC officer positions - Progress: 67%</p> <p>Status of PSCCC P&P and O&P Manuals: <i>Standards Committee P&P</i> accepted by AudCom on December 3, 2022 & available on PSCCC website (under "Resources"). <i>Working Group P&P</i> accepted by AudCom in March, 2024 & available on PSCCC website (under "Resources"). <i>Technical Committee O&P</i> sent to Main Committee for review before today's meeting; Main Committee approval received during this meeting; to be submitted to PES Technical Council after meeting.</p> <p><i>O&P / P&P Reminders</i></p> <ul style="list-style-type: none"> - Quorum requirement for sub-groups is now majority like Main Committee and Subcommittees per the latest WG P&P - Per PSCCC SC P&P 2022, 7.2.1, new PARs, revised PARs, PAR extensions require MC approval* (* SC approval is customary practice, not strictly required; see PSCCC SC P&P 2022, 7.1.1 & 5.2). - Ballot group formation does not require SC/MC approval 	<p>James Fornea</p>

<p>CHAIR REPORT (continued)</p>	<ul style="list-style-type: none"> - Approving drafts to go to IEEE-SA ballot: <ul style="list-style-type: none"> - WG supermajority (2/3) vote (see PSCCC WG P&P 2024, 7.1.2) - SC majority vote (customary practice, not strictly required; see PSCCC SC P&P 2022, 7.2.2 & 5.2) - MC majority vote (procedural review only; see PSCCC SC P&P 2022, 7.1.1 & 7.2.2) - Voting between meetings / email voting: <ul style="list-style-type: none"> - Motion and second solicited/offered by email - Ballot must close within 13 days (see PSCCC SC P&P 2022 and WG P&P 2024, 7.4). Majority response required, supermajority (2/3) of respondents to approve, regardless of the type of motion - Meeting Notices: <ul style="list-style-type: none"> - 30 calendar days prior to face-to-face mtg, with agenda circulated 10 days prior - 7 days prior to electronic mtg, with agenda circulated 5 days prior (see PSCCC SC P&P 2022 and WG P&P 2024, Clause 6) - Minutes submission: <ul style="list-style-type: none"> - Within 15 calendar days for sub-groups - Within 60 calendar days for Main Committee and subcommittees (see PSCCC SC P&P 2022 and WG P&P 2024, 6.4) - All WG's must have a Chair and a Secretary (Vice-Chair role can be filled by Secretary) - The term "non-member" is now used as the official term for "Guests" - The term "non-voting member" is now used as the term for members without voting rights <ul style="list-style-type: none"> - Non-Voting Members who do not maintain active participation in meetings or make contributions may be moved to Non-Member status Transition to memberplanet: <ul style="list-style-type: none"> - memberplanet buildout for PSCCC is nearly complete - Some issues identified prior to this week's meeting that necessitated cancelling our training session, but we are working diligently with Tech Council and memberplanet staff to address - All participants should have received emails regarding the creation of a profile in the system – please ensure this is complete! - Please continue to maintain up-to-date rosters offline - Officers will request roster updates to be submitted once system is ready - Will not be linked to, integrated with, or replace iMeet Central - Hoping to be live in the system by September meeting, with introductory training session to occur this summer 	<p>James Fornea</p>
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<p>VICE-CHAIR REPORT</p>	<p>Recently published reports on PES Website:</p> <p><i>S Subcommittee</i> IT/OT Challenges and Opportunities To Improve Cyber Resiliency For Utilities (TR-103) Published October 2023</p> <p><i>P Subcommittee</i> Report on Analog Leased Line Withdrawal of Service and Transition Options for Power System Applications (TR 116) Published March 2024</p>	<p>Marc Benou</p>
<p>SECRETARY REPORT</p>	<p>Membership & Registration update:</p> <ul style="list-style-type: none"> - 42 Main Committee members - 4 newcomers this week - 73 registered in May for PSCCC or both PSRC/PSCCC - 14 registered in May for “remote only”. <p>Future Meetings:</p> <p>September 9-12, 2024 Scottsdale, AZ</p> <p>January 12-16, 2025 (JTCM) Garden Grove, CA</p> <p>May 12-15, 2025 Portland, OR</p>	<p>Craig Palmer</p>
<p>STANDARDS COORDINATOR REPORT</p>	<p>24 active PARs. 3 PARs expiring end of 2024. WG’s have until October to apply for extension.</p> <p>PSCCC officers will review all PARs under our control, which may be inactive or otherwise not receiving attention. Standards Coordinator to complete a review of these projects and meet with Executive Officers to make a plan for each project / standard.</p> <p>Committee can no longer simply re-affirm standards. Instead, standards must be opened for ballot / comments through a PAR process. The standard is simply moved straight to ballot and opened for comments. Otherwise, standard will be moved to “Inactive-reserved” status. PSCCC to implement this process – good opportunity for someone to lead a first working group.</p>	<p>Mike Dood</p>
<p>TECHNICAL COMMITTEE PROGRAM CHAIR (TCPC)</p>	<p>PSCCC at IEEE PES T&D Conference (May 6-9, 2024 Anaheim CA):</p> <ul style="list-style-type: none"> - 10 papers submitted, 9 accepted, 1 rejected - No Transactions submissions - 1 Tutorial submitted, 1 accepted - 1 Panel session submitted, 1 accepted <p>PSCCC at IEEE PES General Meeting (July 21-25, 2024 Seattle WA):</p> <ul style="list-style-type: none"> - 42 papers submitted, 21 accepted - 5 Transactions papers submitted - 2 Tutorials submitted, 1 accepted - 4 Panel sessions submitted, 4 accepted 	<p>Reza Khalghani</p>

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<p>TECHNICAL COMMITTEE PROGRAM CHAIR (TCPC) (continued)</p>	<p>PSCCC at IEEE PES Grid Edge Technologies Conference (January 21-23, 2025 San Diego CA):</p> <ul style="list-style-type: none"> - 5 papers submitted, reviews to begin soon - No Transactions submissions - No Tutorials submissions - No Panel sessions submissions <p>IEEE PES General Meeting 2025 (July 27-31, 2025 Austin TX):</p> <ul style="list-style-type: none"> - Conference theme: <i>Achieving Deep Decarbonization in the Electric Power System</i> - Supersession topics: Resource Adequacy and Energy Assurance, Supply Chain Issues and Raw Material Availability, Challenges of Engineering Power System Decarbonization, New Technologies 	<p>Reza Khalghani</p>
<p>SUBCOMMITTEE REPORTS – C0 POWER LINE CARRIER</p>	<p>C1 WG for IEEE-643 Guide for PLC Applications continues its work and is meeting virtually between in-person meetings. Looking to go to ballot by January 2025.</p> <p>C2 WG for IEEE C93.4 – Standard for Power Line Carrier Line-Tuning Equipment (30 kHz to 500 kHz) Associated with Power Transmission Lines has completed its first pass through the existing document. Action items to be sent out to WG members.</p> <p>C3TF – Special Topics in Power Line Carrier Applied to Power Transmission Lines had its first meeting Monday. Agreed to write a report, topics to include modal analysis, discussion on coupling redundancy, and IBR interaction with carrier systems.</p> <p>IEEE PC57.13.9 - Standard for Power-Line Carrier Coupling Capacitors and Coupling Capacitor Voltage Transformers is in comment resolution, re-circulation is anticipated in June.</p>	<p>Tony Bell</p>
<p>SUBCOMMITTEE REPORTS – F0 OPTICAL FIBER</p>	<p>F0 has established working groups for its standards per A0 June 2023 guidance.</p> <p><i>New Developments</i></p> <ul style="list-style-type: none"> - IEEE 1591.1 IEEE Standard for Testing and Performance of Hardware for Optical Ground Wire (OPGW) was published in April 2024. IEEE Website still shows 2012 version. - IEEE 1591.4 Standard for Testing and performance of Hardware for Optical Phase Conductor (OPPC) – New standard - PAR extended to Dec 30,2025. Standard will be sent for second Ballot with changes in June 2024. - PSCCC-F0 members will host a panel in IEEE PES General meeting on experiences with aerial fiber optic cables. - PSCCC-F0 will contribute to T&D standard 524 with respect to installation of Optical Ground Wire (OPGW) and All Dielectric Self Supporting (ADSS) cable installations. 	<p>Del Khomarlou</p>

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<p>SUBCOMMITTEE REPORTS – P0 PROTOCOLS & ARCHITECTURE</p>	<p>P0 met with quorum (17 of 33 members) and approved January minutes.</p> <p><i>Old Business</i></p> <ul style="list-style-type: none"> - WG P5: Revision to IEEE Standard 1615-2019. Recommended Practice for Network Communication for Electric Power Substation Monitoring and Control: <i>approved by NESCOM last week. Awaiting standards board approval.</i> <p><i>New Business</i></p> <ul style="list-style-type: none"> - Congratulations and thank you to WG P10! IEEE P2664 Standard for Streaming Telemetry Transport Protocol has been approved! P0 approved a motion to disband the Working Group upon publication of the standard, and then to form a Task Force to write a summary paper on IEEE-2664 - P0 approved the following motion for a new task force (P22TF): <p>MOTION: To form a task force to write a report on quality assessment, design for reliability, and risk-informed decision making and their impact on communication protocols and architectures for electric power systems.</p> <p>Dave Dolezilek will chair the Task Force</p>	<p>Tom Dahlin</p>
<p>SUBCOMMITTEE REPORTS – S0 CYBERSECURITY</p>	<p>S0 met with quorum.</p> <p><i>Updates</i></p> <ul style="list-style-type: none"> - S1 – IEEE-1686 – will submit PAR, become WG - S2 – IEEE-1711.1 – still in comment resolution, looking to resolve copyright issue - S8 – IEEE-2658 – will form ballot pool in anticipation of going to ballot in September - S10 – Utility Challenges with Cybersecurity – wrapping up final details before publishing 	<p>Scott Mix</p>
<p>A8TF – TERMINOLOGY</p>	<p>Any work containing new definitions or terms to be reviewed should send their questions / comments to Benton Vandiver, A8 Chair.</p>	<p>Benton Vandiver</p>
<p>NEC LIAISON UPDATE</p>	<p>Balloting for all Frist Revisions from Public Input is complete. Public Comments may be submitted through August 28, 2024. Second Draft Meetings for the Code Making Panels are scheduled Oct. 14-25, 2024. Some Code Making Panels are trying to implement the recommended 2029 restructuring of the NEC during this revision cycle.</p>	<p>Bill McCoy</p>
<p>IEEE-P3400 INCLUSIVE LANGUAGE UPDATE</p>	<p>Second round of balloting completed. Relatively high participation from PSCCC compared to other committees. 211 additional comments for review / resolution.</p>	<p>James Fornea</p>
<p>P1952 – RESILIENT PNT</p>	<p>Scott Mix filling in this role for Jeff Dagle who is on assignment. Use case based on WAMPAC / synchrophasors and timing requirements – will be used to validate resiliency and performance of PNT. This is the first use case to get to this level.</p>	<p>Scott Mix</p>

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<p>IEEE SA REPORT</p>	<p>Officers required to complete <i>Understanding IEEE SA’s Antitrust, Competition, and Commercial Terms Policies</i>. This has been moved to IEEE’s Learning Network (ILN).</p> <p>WG Chairs reminded to email WG Membership Roster to Program Manager (T. Thompson) for upload to myProject.</p> <p>IEEE SA Editorial Hub is now available with Normative Reference Training.</p>	<p>Jonathan Goldberg</p>																														
<p>IEEE PES UPDATE</p>	<p>Listservs available from IEEE until memberplanet will fill this function. Webex accounts available from PES (4 shared accounts).</p> <p>Templates for reports and more available on PES website.</p> <p>PES Technical Activities resources: https://ieee-pes.org/technical-activities/technical-council/</p> <p>PSCCC flyer updated and available at PES website.</p> <p>Trending Tech – SBOM ran March 2024 from PSCCC.</p>	<p>Abira Altvater</p>																														
<p>IEEE PES SATELLITE COMMITTEE PSCCC-CHINA</p>	<p>A brief update on activities of IEEE PSCCC Satellite Committee – China was provided.</p> <p>Committee Leadership:</p> <table border="1" data-bbox="384 1115 1315 1453"> <thead> <tr> <th>Serial Number</th> <th>Position</th> <th>职务 (CN)</th> <th>姓名(CN)</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chairman</td> <td>主席</td> <td>王继业</td> <td>JiyeWang</td> </tr> <tr> <td>2</td> <td>Vice-Chairman</td> <td>副主席</td> <td>吴张建</td> <td>ZhangjianWu</td> </tr> <tr> <td>3</td> <td>SecretaryGeneral</td> <td>秘书长</td> <td>朱朝阳</td> <td>ChaoyangZhu</td> </tr> <tr> <td>4</td> <td>DeputySecretaryGeneral</td> <td>副秘书长</td> <td>白敬强</td> <td>JingqiangBai</td> </tr> <tr> <td>5</td> <td>DeputySecretaryGeneral</td> <td>副秘书长</td> <td>梁志琴</td> <td>ZhiqinLiang</td> </tr> </tbody> </table> <p>Number of members: 185 Number of Subcommittees: 9 Number of WGs: none Number of female members: 24 Number of Young Professionals: none</p> <p>Subcommittee examples:</p> <ul style="list-style-type: none"> - Power Information Communication Intelligent Perception - Power IoT Data Transfer and Information Exchange - Electric Power Telecommunication Innovative Technology <p>The first Satellite Technical Committee has expired. This year, preparations for the second session of the Technical Committee will be organized, and recruitment of members for the second session will be carried out. Will more closely align with PSCCC and support their work.</p>	Serial Number	Position	职务 (CN)	姓名(CN)	Name	1	Chairman	主席	王继业	JiyeWang	2	Vice-Chairman	副主席	吴张建	ZhangjianWu	3	SecretaryGeneral	秘书长	朱朝阳	ChaoyangZhu	4	DeputySecretaryGeneral	副秘书长	白敬强	JingqiangBai	5	DeputySecretaryGeneral	副秘书长	梁志琴	ZhiqinLiang	<p>Lily Chen</p>
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CLOSING ANNOUNCEMENTS	Having exhausted the list of agenda items and upon reaching the end of the Agenda, the chair adjourned the meeting with approximately 1 minute to spare.	James Formea