

## PSCC Main Committee Meeting Minutes

Meeting Location: Jacksonville, FL and WebEx	Meeting Time: 11:30 AM	Meeting Date: 2020/01/16	Minutes Revised: --	Minutes Approved: 2020/05/29
Presiding Officer: Ken Fodero, Chair		Recorded by: James Fornea, Secretary		
Attendance:				
Name		Affiliation	Attending via Phone (P) / Web (W) or Local (L)	M/CM/G
Galina Antonova	ABB	L	M	
Tony Bell	Ametek	L	M	
Marc Benou	Iniven	L	M	
TW Cease	Consultant	L	M	
Tom Dahlin	SEL	L	M	
Michael Doak	Mitsubishi Electric Power	W	G	
Mike Dood	SEL	L	M	
Kevin Easley	NEI Engineering	L	M	
Ken Fodero	SEL	L	C	
James Fornea	Eaton	L	S	
John Fuller	AT&T	W	M	
Didier Giarratano	Schnieder	L	M	
Jay Herman	EPRI	W	G	
Dennis Holstein	OCG	L	G	
Chris Huntley	SEL	L	M	
Mario Jardim	Schneider Electric	L	G	
Anthony Johnson	SCE	L	M	
John Kay	Rockwell Automation	W	G	
Delavar Khomarlou	Hydro One	W	M	
Steve Klecker	Midamerican Energy	L	G	
Nicholas Kraemer	NuGrid Power Corp	L	G	
Steve Kunsman	ABB	L	M	
Theo Laughner	PowerGrid-Rx	L	G	
Jason Lombardo	S&C Electric Company	W	G	
Ken Martin	Electric Power Group	L	M	
William McCoy	Unaffiliated	W	G	
Dave McGuire	Hubbell - RFL	L	G	
Scott Mix	PNNL	L	M	
Ashley Moran	IEEE-SA	L	G	
Priyanka Nadkar	SEL	L	G	
Nikoi Nikoi	IEEE-SA	L	G	
Dan Nordell	Xcel Energy	W	M	
Jeff Pack	Power Engineers	L	G	
Craig Palmer	PowerComm Solutions	L	M	
Shana Pepin	IEEE	L	G	
Wayne Stec	Distregen	W	G	
Eric Thibodeau	Gentec	L	M	
Benton Vandiver	ABB	L	M	
Malia Zaman	IEEE-SA	L	G	

M: Member CM: Corresponding Member G: Guest		

Item no.	Notes	Action by
<b>CALL TO ORDER</b>	Meeting called to order at 12:05PM by Ken Fodero.	
<b>ROLL CALL, INTRODUCTIONS, AND QUORUM DETERMINATION</b>	<p>Introductions were conducted in the room. Quorum was determined by a show of hands with membership displayed on the screen; 19/38 members present at the start of the meeting.</p> <p>1 Newcomer to the MC meeting was asked to make a second introduction to the group.</p>	
<b>APPROVAL OF PREVIOUS MINUTES</b>	<p>Minutes from the May meeting were posted on the PSCCC website.</p> <p>Scot Mix made a motion to approve the September 2019 minutes as posted. Anthony Johnson seconded the motion.</p> <p>The chair called for a vote by raising of hands.</p> <p>Motion carried with no dissent or abstention; the September 2019 meeting minutes were approved.</p>	
<b>UNFINISHED BUSINESS</b>	No unfinished business was presented for consideration.	
<b>FUTURE SCHEDULED MEETINGS</b>	<p>May 4-7, 2020, Nashville, TN                      September 21-24, 2020, Reno, NV                      January 10-14, 2021 (JTCM), New Orleans, LA</p> <p>The Secretary also announced that starting in May 2020, the PSCCC MC meeting will be scheduled to start at a set time to allow for improved travel scheduling and to better facilitate remote attendance.</p>	
<b>PSCCC MEMBERSHIP REPORT</b>	<p>The Main Committee currently has a roster of 38 members, and a total of 223 unique committee, subcommittee, and sub-group members. A total of 10 newcomers were in attendance at the newcomers' session this week.</p> <p>Tom Dahlin and Del Khomarlou were introduced as the two newest PSCCC Main Committee members. Tom is the new vice-chair of the P subcommittee, and Del Khomarlou is the new vice-chair of the F subcommittee.</p> <p>123 Signup migration is nearly complete. Subcommittee and sub-group officers will receive additional information soon.</p>	
<b>STANDARDS COORDINATOR REPORT</b>	<p>No report submitted.</p> <p>The 2020 RevCom/NesCom submittal deadlines were presented:                      January 24, 2020                      April 24, 2020                      August 14, 2020                      October 13, 2020</p>	
<b>TCP REPORT</b>	<p>Craig Preuss shared a status update on papers being reviewed by the committee for the PES General Meeting. More members are needed to actively review technical papers.</p> <p>Planning is underway for PES GM 2021; contact Craig Preuss with any super session topic suggestions.</p>	

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<b>A0 TASK FORCE REPORTS</b>	<p><b>(A1) Awards</b> – Hugo Monterrubio Working group chairs are reminded of the process to request WG awards upon completion of a Standard or Guide: Visit the IEEE SA Awards webpage after the Standard has been approved and published. You will need the IEEE Standard Number and year of publication: XXXX(Standard number)- XXXX (Year) <a href="http://standards.ieee.org/develop/awards/wgchair/wgawards.html">http://standards.ieee.org/develop/awards/wgchair/wgawards.html</a>. An email should also be sent to Hugo Monterrubio once a request has been filed so that the Awards SC can follow up.</p> <p>Starting this May 2020 during all future PSCC/PSRC May and September meetings our Monday night Welcome Reception will feature an Awards Ceremony. Please take this into consideration when making travel plans for future PSCC/PSRC meetings. Don't miss this opportunity to help recognize or be recognized for the work that our Committee and fellow PSCC/PSRC members do throughout the year.</p> <p>The A0 WG is working to catch up with pending awards since the creation of the PSCC and hope to do so throughout this year. If anyone knows or feels that we have missed announcing or delivering an award please reach out to Hugo Monterrubio (HugoM@iee.org) so this can be rectified.</p> <p>***</p> <p><b>(A2) Fellows</b> – Bill Dickerson - no report.</p> <p>***</p> <p><b>(A3) Membership (Newcomers)</b> – TBD – no additional report</p> <p>***</p> <p><b>(A4) O&amp;P Manual and Working Group Training</b> – TBD – no report</p> <p>***</p> <p><b>(A5) Publicity</b> – Cathy Dalton – no report</p> <p>***</p> <p><b>(A6) Long Range Task Force</b> – TBD – no report</p> <p>***</p> <p><b>(A7) Website</b> – Nathan Wallace – no report</p> <p>***</p> <p><b>(A8) Terminology</b> – Mal Swanson – no report</p>	

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<p><b>SUBCOMMITTEE REPORTS</b></p>	<p><b>C0 – Power line carrier subcommittee (Palmer)</b>                      A verbal update was provided; additional updates available in the latest C0 minutes.</p> <p>***</p> <p><b>D0 – Wireless subcommittee – no report (currently inactive)</b></p> <p>***</p> <p><b>E0 – Wireline subcommittee (Fuller)</b>                      A verbal update was provided; additional updates available in the latest E0 minutes.</p> <p>***</p> <p><b>F0 – Optical fiber subcommittee (Khomarlou)</b>                      Bill Byrd has retired as chair after 20 years.</p> <p>A verbal update was provided; additional updates available in the latest F0 minutes.</p> <p>***</p> <p><b>P0 – Protocols and architecture subcommittee (Vandiver)</b>                      A verbal update was provided; additional updates available in the latest P0 minutes.</p> <p>***</p> <p><b>S0 – Cybersecurity subcommittee (Kunsman)</b>                      Three new study groups to meet for the first time in May:                          SG S14, Applying HTTP/TLS on Devices for Electric Power Systems                          SG S15, Implementing Security for IEC 61850 GOOSE and Sampled Values                          SG S16, Applying IDS/IPS for security in Electric Power Systems including Malicious Code and Communications detection</p> <p>Jim Bougie has been vice chair since inception, and he will be stepping down as vice chair. Scott Mix will serve as the new vice chair.</p> <p>Additional updates are available in the latest S0 minutes.</p> <p>***</p> <p><b>T0 – Broadband over Power Line Technology – no report (currently inactive)</b></p>	

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<b>LIAISON REPORTS</b>	<p><b>IEEE 5G (TBD)</b> – no report</p> <p><b>CIGRE D2 (Dennis Holstein)</b> – verbal summary provided; written report attached to the minutes.</p> <p><b>IECTC57 WG15 (Marc Lacroix)</b> – no report</p> <p><b>IEEE Communications Society (TBD)</b> – no report</p> <p><b>ISA99 (TBD)</b> – no report</p> <p><b>IEEE-SA (Ashley Moran)</b> – no report A brief training was presented on the IEEE SA Copyright Policy.</p>	
<b>LIAISON REPORTS, continued</b>	<p>Ken Fodero to consider a letter authorizing the use of PSCCC-sponsored standards by other PSCCC groups in standards development.</p> <p>IEEE GDPR Volunteer Dashboard: <a href="https://site.ieee.org/gdpr/">https://site.ieee.org/gdpr/</a></p> <p><b>IEEE PES (Shana Pepin/Miriam Sanders)</b> – no report</p> <p><b>IEEE SmartGrid (TBD)</b> – no report</p>	
<b>ITEMS REPORTED OUT OF EXECUTIVE SESSION</b>	<p>N/A</p>	
<b>NEW BUSINESS</b>	<p>SG P1 PAR Request for IEEE C37.238-2017, IEEE Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications.</p> <p>Project is to draft an amendment to add a TLV for latest IERS-specified UTC Leap Second Event.</p> <p>One typo noted in the Scope as posted.</p> <p>Motion to approve made by Scott Mix. Second by Anthony Johnson. The chair called for a vote by the raising of hands. No dissent, motion carried.</p> <p>***</p> <p>TF P3 Dual-Logo Request for IEEE 1815.1, Exchanging Information Between Networks Implementing IEC 61850 and IEEE Std. 1815 (DNP3).</p> <p>Project is to pursue dual-logo status with the IEC.</p> <p>Motion to approve made by Scott Mix. Second by Tony Johnson. The chair called for a vote by the raising of hands. No dissent, motion carried.</p> <p>***</p>	

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<p><b>NEW BUSINESS, continued</b></p>	<p>SG P18 Co-Sponsor Project Request for revision of IEEE 2030, IEEE Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), End-Use Applications, and Loads.</p> <p>Project is to jointly develop a PAR with SCC-21 to revise the standard.</p> <p>Motion to approve made by Scott Mix. Second by Tony Johnson. The chair called for a vote by the raising of hands. No dissent, motion carried.</p> <p>***</p> <p>TF P8 request to confirm paper approval is acknowledged by the Chair; no official action required on the part of the committee.</p>	
<p><b>PSCCC VICE-CHAIR REPORT</b></p>	<p>No report.</p>	
<p><b>PSCCC PAST CHAIR COMMENTS</b></p>	<p>No report.</p>	
<p><b>TIME OF FINAL ADJOURNMENT</b></p>	<p>Motion to adjourn by Eric Thibodeau. Second by Scott Mix. Meeting adjourned at 1:23PM.</p>	
<p><b>FUTURE MEETING ROOM REQUIREMENTS</b></p>	<p>[Room Size = 50][Projector = YES][Telecon = YES]</p>	

## **1 CIGRE Paris FR meeting**

The semi-annual meeting of CIGRE study committees will meet in Paris FR the last week of August 2020.

## **2 Project D2.46 – Cybersecurity: Future threats and impact on electric power utility organizations and operations**

### **2.1 Overview**

This technical brochure offers an insight into the evolution of the cyber-physical security threat landscape for the next 20 years. The approach used is well-aligned with the concepts described for the “Grid Architecture of the Future.” Based on the guidance provided by a world-wide survey of stakeholders, the most important issues were addressed. Using a well-defined model-based system engineering process, multiple solutions were analyzed to improve the maturity posture of the technical staff and identify the spy craft tools needed for a proactive or anticipatory response to these threats.

### **2.2 Status**

WG D2.46 has completed their work. All review comments have been addressed and SC D2 has submitted the draft to CIGRE for publication.

## **3 Project B5.66 – Cybersecurity requirements for PACS and the resilience of PAC architectures**

### **3.1 Overview**

This technical brochure offers an insight into the emerging threat landscape with attention paid to common protection, automation and control systems (PACS). Overlaid on this portrait is the imposition of emerging laws and regulations. From this assessment it was clear that a dramatic sea change will be required to modernize existing electric power utility’s policies, procedures, and organizational directives. A well-defined model-based system engineering process was used to define selected views of PACS-centric systems of interest. Using MBSE each impact is associated with recommended solutions to improve the security posture of PACS operations. For example, the capabilities needed to implement an integrated security operation center clearly shows that special personnel skills and advanced analytical tools are badly needed to improve the maturity PACS security posture and to implement a proactive or anticipatory security strategy.

### **3.2 Status**

WG B5.66 has completed their work. CIGRE has published the technical brochure #790.

## **4 Project D2.50 – Electric Power Utilities’ cybersecurity for contingency operations**

### **4.1 Overview**

Pursuant to the approved terms of reference, guidelines for situations that require consideration of cybersecurity over-rides to gain access to and use of protection, automation, and control system (PACS) assets. Enable an efficient use of emergency communications to over-ride access control and to reconstitute cyber-protection mechanisms. Develop classes of metrics to be used by others to quantify cyber-physical security (CPS) solutions. KMS and WebEx are used as the primary means to facilitate collaboration for WG D2.50’s deliverables.

### **4.2 Status**

This is a new working group. WG D2.50 first meeting was held in Jacksonville, FL on Monday, 13 January 2020 during the JCTM. The second meeting is planned for the morning of May 4<sup>th</sup> at the

joint PSRC and PSCC meeting in Nashville TN. This is an open meeting for all interested subject matter experts. Those interested in becoming a regular or corresponding member should request participation by sending an email to [holsteindk@ocg2u.com](mailto:holsteindk@ocg2u.com).

## **5 Project D2.51 - Implementation of security operations centers (SOC) in Electric Power Industry as a part of situational awareness system**

### **5.1 Overview**

Pursuant to the approved terms of reference, a survey of SOC implementations will be conducted to identify common deployments and best practices.

### **5.2 Status**

This is a new working group that will build on the work of B5.66, D2.46 and D2.38. The convenor is Vladimir Karantaev (RU). Those interested in becoming a regular or corresponding member should request participation by sending an email to [holsteindk@ocg2u.com](mailto:holsteindk@ocg2u.com).