

Entity: Power System Communications and Cybersecurity Committee (PSCCC)

Chair: Mike Dood

Vice-Chair: Ken Fodero

Secretary: Craig Preuss

1. Significant Accomplishments:

- 1) 2018 was the PSCCC second year as a committee. We now have 5 very active subcommittees.
- 2) The committee now have a webmaster and a great website <http://sites.ieee.org/pes-pscc/>
- 3) The PSCCC manages approximately 32 exiting standards. We also have a number of working groups working on new efforts, with the following deliverables in 2018:
 - a) Publishing the following:
 - i) Nothing was published this year
 - b) Balloting the following:
 - i) 1615 “Recommended Practice for Network Communication for Electric Power Substations” (primarily developed by the Substations Committee)
 - ii) P1711.2 Trial-Use Standard for Secure SCADA Communications Protocol (SSCP)
 - c) Reviewing/working on the following:
 - i) 1686 IED Cybersecurity Capabilities
 - ii) 1815, “Standard for Electric Power Systems Communications – Distributed Network Protocol (DNP3)
 - iii) C37.240 “Cyber Security Requirements for Power System Automation, Protection and Control Systems”
- 4) The PSCCC creates tutorials, with the following deliverables in 2018:
 - a) Working on the following tutorials
 - i) Our members will help organize and present a tutorial that will be given at the PES GM in Atlanta called: Cybersecurity of the Electric Power Transmission and Distribution System
 - ii) We are co-hosting a session at DistribuTech called “Best Practices in Utility Cybersecurity”
- 5) The PSCCC was involved in the following panel sessions in 2018:
 - a) None
- 6) The PSCC formed a number of new Task Forces and Working Groups, they include:
 - a) Testing Power System Cybersecurity Controls
 - b) Cyber Services and Cybersecurity Function Designations
 - c) Study Group on Utility IT-OT Cybersecurity challenges in roles and terminology
 - d) Challenges on Analyzing and Implementing Cybersecurity Standards and Best Practices
 - e) Task Force on Roadmap Development of Cyber Security Services standard document
 - f) Analog Leased Line End of Life and Migration Report
- 7) PSCCC was involved in the following paper sessions in 2018:
 - a) None
- 8) The PSCCC prepares industry reports, with the following deliverables in 2017:
 - a) Publishing the following reports:
 - i) None
 - b) Working on the following reports:

- i) “Application of Ethernet Networking Devices Used for Protection and Control Applications in Electric Power Substations” (Task Force P6)
- 9) Helped organize and participated in the inaugural *IEEE Utility Cyber Security Workshop* which was held in Atlanta in December. We are supporting the effort to develop a whitepaper summarizing this workshop. We will be supporting a follow-up to this workshop in December of 2019.

2. Benefits to Industry and PES Members from the Committee Work:

The most notable activity of the PSCCC is the revision and updating of standards and guides, and initiating work on new standards. These standards are widely utilized and provide the most direct benefit to the industry.

The working groups of PSCCC subcommittees are supporting the industry by offering publications in the transactions, panel sessions, presentations, and tutorials in conjunction with the PSCCC meetings (held in January, May and September), the JTCM, the PES General Meeting, and the IEEE/PES T&D Expo.

The subcommittees encourage technical exchanges for meeting the expectations and the concerns of both the equipment manufacturers and the users related to cybersecurity.

3. Benefits to Volunteer Participants from the Committee Work:

Participants have benefited from their collaboration on technical problems with industry leaders and experts, discussing contemporary industry problems and concerns, and the satisfaction of creating standards and guides that are useful to the industry. Committee meetings have included presentations of experts in specific fields and debating of ideas and industry practices, including CIGRE member input. Substations Committee members have also benefited from their exposure to technical paper reviews and technical paper presentations.

4. Recognition of Outstanding Performance:

Nathan Wallace from our committee was awarded the PES Technical Council Young Professional Award

5. Coordination with Other Entities (PES Committees, CIGRE, standards, etc.):

PSRCC – Meeting jointly in May and September.
T&D – Joint work on 1815.
IEEE 5G (TBD)
CIGRE D2 (Galina Antonova)
IEC TC57 WG15 (Marc Lacroix)
IEEE Communications Society (TBD)
ISA99 (TBD)
IEEE Smart Grid (TBD)

6. New Technologies of Interest to the Committee:

TBD.

7. Significant Plans for the Next Period:

- 1) Meetings in January, May and September with the PSRCC



Power & Energy Society®

- 2) Further engage with ISA99, IEEE Smart Grid, IEEE 5G, IEC TC 57 WG15, and the IEEE PES T&D Committee
- 3) Nominate several Fellow candidates
- 4) Nominate members for IEEE achievement awards
- 5) Coordinate with PSRCC and other IEEE Committees on standards that involve communications and cybersecurity
- 6) Prepare Technical Paper Panel Sessions at the PES General Meeting
- 7) Present Tutorials at the PES GM

Submitted by: Mike Dood

Date: 1/31/19