

4.0 CHAIR'S REPORT – SUSAN MCNELLY

Chair's Remarks – Presented at the Monday General Session – Columbus, OH - Fall 2019

4.1 IEEE PES TECHNICAL COUNCIL

The Technical Council of the IEEE Power Energy Society (PES) is composed of the Chairs of the PES Technical and Coordinating Committees, plus the Chairs of Standing Committees reporting to it. The full organizational structure of the PES is shown in the current version of the IEEE PES Organization Chart and Committee Directory (<http://www.ieee-pes.org/pes-organization-chart-and-committee-directory>). The PES Technical Committees report to the Technical Council on matters concerning membership, recognition, technical publications, scope and the coordination of the Power Energy Society generated standards. For standards relating to their technical scope, the Technical Committees work directly with the IEEE-SA Standards Board and the PES Standards Coordinating Committee. For further details on the Statement of Purpose and Scope of Activities for the PES Technical Council Please see; <http://www.ieee-pes.org/statement-of-purpose-and-scope-of-activities-for-the-pes-technical-council>.

4.1.1 Technical Council Officers & Members

The officers and members of the Technical Council are listed below for your reference. Each individual listed here is the chair of that respective committee.

TECHNICAL COUNCIL OFFICERS 2018-2019

Chair	Farnoosh Rahmatian (Quanta Technology)
Vice Chair	Vijay Vittal (Arizona State University)
Secretary	Hong Chen
Past Chair	Miriam Sanders (SEL University)

STANDING COMMITTEES 2018-2019

Awards	Chair Miriam Sanders
Organization & Procedures	Hong Chen
Power and Energy Education	Siddharth Suryanarayanan
Standards Coordination	Ted Burse
Technical Sessions	Vijay Vittal

COORDINATING COMMITTEES 2019

Intelligent Grid & Emerging Tech., IGETCC	Chair Doug Houseman
Marine Systems, MSCC	Dwight Alexander
Wind and Solar Power, WSPCC	Debra Lew

TECHNICAL COMMITTEES 2019

Analytical Methods for Power Systems, AMPS	Chair Kevin Schneider
Electric Machinery, EM	K. Chen
Energy Development & Power Generation, EDPG	John B. Yale
Energy Storage & Stationary Battery, ESSB	Curtis Ashton
Insulated Conductors, IC	E. Rusty Bascom
Nuclear Power Engineering, NPE	Daryl Harmon
Power System Communications & Cybersecurity, PSCC	Ken Fodero
Power System Dynamic Performance, PSDP	Costas Vournas
Power System Instrumentation & Measurements, PSIM	Ernst Hanique
Power System Operation Planning & Economics, PSOPE	Luiz Barroso
Power System Relaying & Control, PSR	Russ Patterson
Smart Buildings Loads & Customer Systems, SLCS	Shawn Chandler
Substations, SUB	Joe Gravelle
Surge Protective Devices, SPD	Steven Hensley
Switchgear, SWGR	Todd Irwin

TECHNICAL COMMITTEES 2019
Transformers, TRANS
Transmission and Distribution, T&D

Chair
Susan McNelly
Gary Chang

4.1.2 IEEE Updates and Efforts

1. PES Technical Council Activities

The JTCM meeting schedule as presently know for 2020 will be as follows:

- January 12 – 16, 2020 - Hyatt Regency Hotel in Jacksonville, Florida.
- August 2 - 6, 2020 - GM in Montreal, Quebec Canada

PES will be going to a yearly Technical Council retreat. This may also include a training session a day before the retreat for new Committee Chairs.

A new Technical Committee, Energy Internet (EI), to PES has been proposed and was discussed at the August 2019 General Meeting. EI is a deep combination of energy system and the Internet, and is an emerging topic to shape the next-generation energy system. EI aims to support new energy ecosystem with better interconnection, openness and flexibility, aims to accommodate deep-penetration clean energies, improve energy efficiency, and create a novel sharing economy to reduce the cost of energy assumption.

2. IEEE-SA

IEEE-SA has updated Sponsor terminology. The term “Sponsor” has been changed to “Standards Committee (SC)” and “Sponsor Ballot” will now be referred to as Standards Association Ballot (SA Ballot)”. This terminology has been updated in the IEEE-SA P&Ps (Standards Association Standards Board Bylaws and Operations Manual).

The IEEE-SA has also implemented the following updates:

- New policy for participation in IEEE standards development – The new policy, IEEE SASB Bylaws Clause 5.2.1, mandates that all officers must be Standards Association Members. This will not require any changes for the Transformers Committee, as this is already a requirement for Committee Membership.
- New policy for standards balloting Process – New text in the SASB Operations Manual, Clause 5.4.3 will read as “The Standards Committee shall ensure that comment resolution occurs via a comment resolution group, which is a subgroup of the working group. The chair of the comment resolution group may allow persons who are not working group participants to join the comment resolution group.” In addition, documentation for the formation of the Comment Resolution Group (CRG) must be provided in the WG minutes and include: the formation of the group, the scope of the work and the reporting structure (do they need to report back to the WG for approval of the resolutions?).

IEEE SASB Dominance Adhoc recently completed its work. Education material is available to SA Volunteers, which include: high level rules, individual process rules, entity process rules, dominance rules. FAQs on Dominance and Signs of Potential Dominance can be found at <https://standards.ieee.org/faqs/dominance.html>.

Slides are also available on Participant Behavior – Individual Method

<https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Individual-Method.pdf> and

Participant Behavior – Entity Method

<https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Entity-Method.pdf>

- The SA staff are looking for training opportunities on Tools, Standards Development Process, and Editorial Process.

3. The PES China Council

PES China has notified IEEE-SA that they are seeking a method to work directly with the PES Technical Committees on PAR proposals. PES currently has 20 entity PARs under development, two of which are presently approved under the Transformers Committee.

There are presently 2 entity PAR proposals for consideration before the Transformers Committee. These are under review with responses due back to IEEE after the fall meeting in Columbus. The two proposals are:

1. Recommended practice for the on-load capacity regulating distribution power transformer
2. Guidelines for the synchronous monitoring of DC bias current distribution in power grid

4.2 TRANSFORMERS COMMITTEE ACTIVITIES

4.2.1 Liaison Representatives - Appointed by Committee Chair.

- ASTM D27 – Tom Prevost
- CIGRE – Craig Swinderman
- IEC TC-14 - Phil Hopkinson
- Standards Coordinating Committee, SCC No. 18 (NFPA/NEC) – David Brender
- Standards Coordinating Committee, SCC No. 4 (Electrical Insulation) - Evanne Wang

SCC04 has asked whether the Transformers Committee would be interested in taking on the work of the SCC04. SCC04, related to electrical insulation, is a very small Standards Coordinating Committee. There are presently 3 standards that they oversee, the list is provided below. The difficulty in considering this request is that the information pertains to electrical insulation in all types of electrical equipment, not just transformers. This will be brought forward to the ADCOM for consideration and discussion.

1. IEEE 1-2000 (R2011) Recommended Practice – General Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation:
Standard expiration date: 12/31/21.
2. IEEE 98-2016 Standard for the Preparation of Test Procedures for the Thermal Evaluation of Solid Electrical Insulating Materials:
Standard expiration date:12/31/26.
3. IEEE 99-2008 Recommended Practice for the Preparation of Test Procedures for the Thermal Evaluation of Insulation Systems for Electrical Equipment:
Standard expiration date: 12/31/18 on Nov 6th RevCom agenda.

4.2.2 Committee Schedule

There were again a number of last minute WG meeting cancelations. SC Chairs are responsible for reviewing the preliminary schedule with each of their WGs and TFs. There should not be any big

unknowns at that point in time that decisions on whether or not they need to meet can't be made. New meeting time slot requirements also need to be identified at this time.

4.2.3 Meeting APP

Many thanks to Dave Wallach for helping the Committee launch the new meeting APP, [IEEE EventHub](#), available for iOS and Android devices, that will be rolled out at the Columbus meeting. The APP can be found by searching for "IEEE EventHub" on either the App Store or Play Store. Login is required using your IEEE account credentials. Anyone that does not already have an IEEE account, can create one for free. The cost for the APP will be ~\$1000/meeting after the first meeting and is independent of the number of users. The previous APP had fees based on the number of users. This new APP is expected to save money for the Committee.

4.2.4 Association Management System, 123 Signup

All WG's should be using AMS to track their membership and meeting attendance. If you are unable to so, please assign it to someone in your group. In addition to using the AMS, a list of names and affiliations must be included in the meeting minutes.

If new groups need to be added to the site for communicating with a WG or TF and for documentation of membership and meeting attendance or to change the responsible person, please contact the Committee Secretary.

4.2.5 Website Password Usage

The website password is not for public dissemination. It is for use by our meeting attendees (CM, AP, II) and associated work of the Transformers Committee. Access to the protected information on the Committee website is a benefit of attendance and participation. It may be used by meeting attendees and within attendees' immediate workplace, but not beyond that. A new password will be implemented **immediately** after the **Jacksonville-Columbus** meeting **effective November 4**.

4.2.6 Call for Patents (Essential Patent Claims)

<https://standards.ieee.org/about/sasb/patcom/patc.html>

A call for patents is required at every Working Group (WG) meeting. There should be no discussion of any patent claim identified, only that it be identified and recorded. Even if no patent claims are identified, the minutes are to indicate that the call for patents was made.

A Letter of Assurance (LoA) is a document submitted to IEEE-SA by a patent holder which documents the submitter's position with regard to ownership, enforcement, or licensing of an Essential Patent Claim that may be incorporated into a specific IEEE document. As of October 2019, the following ten (10) existing [Accepted Letters of Assurance](#) pertain to our committee:

Std No.	Patent Owner	Contact for License	Patent Serial No. (if indicated)	Letter Date	Licensing Assurance Received	Date record entered or revised (if known)
C37.60	S&C Electric Company	Mark W. Stavnes mstavnes@sandc.com	not indicated	29 Aug 2008	non-awareness statement	2 Sep 2008
C57.12.200	Megger Sweden AB	Niclas Wetterstrand niclas.wetterstrand@megger.com	8,428,895 (US)	25 Sep 2019	yes	30 Sep 2019
C57.104	Arizona Public Service Company	John Finn john.finn@pinnaclewest.com	not indicated	12 Apr 2019	yes	16 Apr 2019
C57.127	ABB Technology Ltd.	Bjorn Dahlstrand bjorn.dahlstrand@seabb.com	6,340,890 (US)	31 Aug 2005	yes	6 Sep 2005

C57.127	General Electric Technology GmbH	Frank Landgraff frank.landgraff@ge.com	7,286,968B2 (US)	14 Aug 2018	yes	16 Aug 2018
C57.139	Maschinenfabrik Reinhausen GMBH	Stefanie Hofmeister patents@reinhausen.com	not indicated	13 Jan 2013	yes	16 Jan 2013
C57.143	Roger Fenton	Roger Fenton roger.a.fenton@gmail.com	15/371,085 (US)	9 Oct 2018	yes	12 Oct 2018
C57.147 and C57.155	Cooper Power Systems, LLC	Alan Yerges alanpyerges@eaton.com	6,398,986 (US) 6,905,638 (US) 7,651,641 (US)	5 Apr 2017	yes; royalty-free	5 Apr 2017
C57.147 and C57.155	Cooper Power Systems, LLC	Alan Yerges alanpyerges@eaton.com	PI 9612097-5	5 Apr 2017	NO	5 Apr 2017
C57.163	Advanced Power Technologies, LLC	Gary Hoffman email: grhoffmann@advpowertech.com	20130285671 (US)	5 May 2014	yes	5 May 2014

4.2.7 Transformers Committee Policies and Procedures (P&P) Update

The WG and Entity WG P&Ps have been revised and will be brought forward for approval in Columbus.

4.2.8 Website

The transition to the new web platform has been completed. Susan McNelly is the primary webmaster. Kris Zibert has agreed to assist with the website. A division of responsibilities will be reviewed in the coming year.

Respectfully submitted,

Susan J. McNelly

Chair, IEEE/PES Transformers Committee

Rev 2, October 26, 2019