

## 5.0 CHAIR’S REPORT – STEPHEN ANTOSZ

### 5.1 CHAIR’S REMARKS – PRESENTED AT THE MONDAY GENERAL SESSION -- NEW ORLEANS - SPRING 2017

#### 5.1.1 IEEE PES Technical Council

The Technical Council of the IEEE Power Energy Society (PES) is presently composed of the Chairpersons of the PES Technical Committees, plus the Chairpersons of Standing Committees reporting to it. For operating functions it is responsible to the IEEE Technical Advisory Board and for technical activities to the IEEE Technical Activities Board.

The PES Technical Committees report to the Technical Council on matters concerning membership, technical publications, recognition, 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 Standards Board and the Power Energy Society 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>.

#### 5.1.2 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 2016-2017

Miriam Sanders, Chair (SEL University)  
Farnoosh Rahmatian, Vice Chair (Quanta Technology)  
Secretary, Vijay Vittal (Arizona State University)  
Past-Chair, Jeffrey Nelson (TVA)

STANDING COMMITTEES	CHAIR
Awards	Jeff Nelson
Technical Sessions, TS	Farnoosh Rahmatian
Organization & Procedures, O&P	Vijay Vittal
Standards Coordination, SC	Ted Burse
COORDINATING COMMITTEES	CHAIR
Intelligent Grid & Emerging Technology, IGETCC	Doug Houseman
Marine Systems, MSCC	Dwight Alexander
Wind and Solar Power, WSPCC	Debbie Lew
Power & Energy Education, PEEC	Sukumar Brahma
TECHNICAL COMMITTEES	CHAIR
Electric Machinery, EM	Kiruba Haran
Energy Development & Power Generation, EDPG	Ward Jewell
<a href="#">Energy Storage &amp; Stationary Battery, ESSB</a>	Chris Searles
Insulated Conductors, IC	Frank Frentzas
Nuclear Power Engineering, NPE	Thomas Koshy

Analytical Methods for Power Systems, AMPS	Joydeep Mitra
Power System Communications & Cybersecurity, PSCC	Mike Dood
Power System Dynamic Performance, PSDP	Claudio Canizares
Power System Instrumentation & Measurements, PSIM	Jim McBride
Power System Operation Planning & Economics, PSOPE	Hong Chen
Power System Relaying & Control, PSR	Praytap Mysore
Smart Buildings Loads & Customer Systems, SLCS	Shawn Chandler
Substations, SUB	Diane Watkins
Surge Protective Devices, SPD	Ronald Hotchkiss
Switchgear, SWGR	Paul Sullivan
Transformers. TRANS	Stephen Antosz
Transmission and Distribution, T&D	D.D. Sabin

### 5.1.3 PES Technical Council Activities

- a) Tech Council retreat for Technical Committee Chairs, to discuss the future direction of PES. Charlotte, NC for 2 days in November 2016. The purpose was to learn what each Committee's issues are and to try to help solve them. This is not supposed to be a top-down meeting from PES, but a bottom-up from Tech Committees. So we laid out the important issues to focus on over the next several years. The top four are; increasing value to the industry, tools to enhance effectiveness, sharing best practices, training for leaders and members.

Somehow I volunteered to chair a task force on Sharing Best Practices. We will look at how each Technical Committee handles:

- Meeting Planning and execution
- Systems & Tools (AMS, website, doc storage, etc)
- Standards development
- Methods for sharing info
- Increasing young professional involvement, mentorships
- Knowledge retention and knowledge transfer
- Longer Officer terms or redistribution of responsibilities

Other subjects discussed:

- globalization of IEEE/PES and how it applies to technical committees
- international participation
- IEC/CIGRE relationships, MOU's
- training
- marketing
- PES Resource Center
- meeting planning
- officer term limits
- getting young engineers involved
- increasing utility participation
- editors and paper reviews
- IEEE-SA adoption of documents from CSEE

- b) Joint Technical Committee Meeting, JTCM. <https://www.pestechical.org/>. Jan 8, 2017. New Orleans. First of two annual gatherings where Technical Council meets to discuss activities of the Standing, Coordinating, and Technical Committees. There were presentations by PES President Damir Novosel, PES Executive Director Pat Ryan, and PES President Elect Saifur Rahman. For meeting minutes, <http://www.ieee-pes.org/meetings-and-conferences/7-technical-committees/committees/369-pes-technical-council-meeting-minutes>

## **5.2 TRANSFORMERS COMMITTEE ACTIVITIES**

### **5.2.1 Liaison Representatives. Appointed by Committee Chair.**

- CIGRE - Raj Ahuja
- IEC TC-14 - Phil Hopkinson
- Standards Coordinating Committee, SCC No. 18 (NFPA/NEC) – David Brender
- Standards Coordinating Committee, SCC No. 4 (Electrical Insulation) - Paulette Powell – Paulette will resign. Our new liaison will be Evanne Wang of DuPont.

### **5.2.2 RFID**

This issue will be covered by our Meeting Planner, Greg Anderson. We are using RFID tags on the namebadges for this New Orleans meeting in a similar manner as past meetings. Bear with us as we implement this new technology, which is intended to make our meetings better.

### **5.2.3 Thursday morning Tutorials**

We always continue to look for new and exciting topics. Tom Prevost is the leader of this activity for coordination efforts. If interested, see Tom or any of the officers. Any feedback by attendees is welcome.

### **5.2.4 Association Management System**

All WG's should be using AMS to track their membership and meeting attendance. If unable to do so, then please assign it to someone who can do it.

### **5.2.5 Website Password Usage**

It is not for public dissemination. It is for use by our meeting attendees (CM, AP, II) and associated work of the Transformers Committee. One can think of it as a benefit of attendance and participation. Use it for yourself and within your immediate workplace, but not beyond that.

### **5.2.6 Call for Patents (Essential Patent Claims)**

<http://standards.ieee.org/about/sasb/patcom/index.html>

We are required to have a call for patents at every Working Group (WG) meeting. We used to show a slide presentation at every WG meeting, but stopped doing so, and the presentation was posted in the patent section of our website. Several years ago, we replaced the call for patents with a patent question at registration. This is allowed, was approved, but comes with restrictions. At the last meeting in Vancouver we were advised that this was no longer adequate, so we began again to call for patents at every WG meeting. We plan to continue to do so. We will discontinue (at the next meeting) the patent question at registration. The patent issue is specific to each WG and therefore will be addressed in each WG meeting.

This is a reminder to all WG leaders to call for patents and record the results in the meeting minutes. Note it is not required to show the patent slides; it is only necessary to call for patents

and record the response in the minutes. If there is a claim reported, the WG chair shall include in the minutes the name & affiliation of the individual asserting a patent claim.

Here is what each WG Chair should ask at the beginning of each WG meeting. This applies only to WG's after the PAR is approved by the IEEE-SA Standards Board.

**If anyone in this meeting is aware of any patent claims that are potentially essential to implementation of the document under consideration by this WG, that fact should be made known to the WG and recorded in the meeting minutes.**

That's it. Move on. Don't spend a lot of WG time on this issue. Don't discuss it. Proceed with the WG meeting. Record in the minutes that the call for patents was made.

If a patent holder or patent applicant is identified, then the WG Chair (or designee) should ask the patent holder or patent applicant of a patent claim that might be or become an Essential Patent Claim to complete and submit a Letter of Assurance in accordance with Clause 6 of the IEEE-SA Standards Board Bylaws.

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 March 2017, there are three (3) existing Accepted Letters of Assurance that pertain to our committee, as follows:

1. C57.127 Guide for Detection and Location of Acoustic Emissions from Partial Discharges in Oil-Immersed Power Transformers and Reactors. LoA recorded September 6, 2005. Filed by ABB Technology, Ltd.
2. C57.139 Guide for Dissolved Gas Analysis in Transformer Load Tap Changers. LoA recorded January 16, 2013. Filed by Maschinenfabrik Reinhausen GMBH.
3. C57.163 Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances. LoA recorded May 5, 2014. Filed by Advanced Power Technologies, LLC.
4. C57.147 Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers, and C57.155 Guide for Interpretation of Gases Generated in Natural Ester and Synthetic Ester-Immersed Transformers. LoA recorded April 5, 2017. Filed by Cooper Power Systems, LLC.
5. C57.147 Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers, and C57.155 Guide for Interpretation of Gases Generated in Natural Ester and Synthetic Ester-Immersed Transformers. LoA recorded April 5, 2017. Filed by Cooper Power Systems, LLC.

Distribution of an LoA to the related Working Group is permitted.

### **5.2.7 100 year celebration in Spring 2018 in Pittsburgh**

Based on research of AIEE and IEEE, the first recorded meeting of a transformer standards developing group was in 1918, making 2018 the 100 year anniversary of our committee. We will use the Spring 2018 meeting in Pittsburgh to celebrate the occasion. We intend to have a formal banquet on Sunday with special guests and speakers, a reunion of former members, significant honors and awards, a sumptuous reception, etc. More info to come in the future.

### 5.2.8 Ballot Comment Resolution Actions

Ballot comments must be correctly addressed on the ballot resolution worksheet, or there is the possibility that your ballot will be rejected by RevCom and sent back for re-ballot. Some issues:

- Comments marked accepted, but no or different changes made to the document.
- No disposition detail provided for 'Revised' or 'Rejected' dispositions.
- Disposition Detail refers to another comment. This is not acceptable, each comment must stand alone. It is ok to repeat the same text for many different comments.
- Changes that are accepted exactly as proposed do not need disposition detail, and should be left blank.

### 5.2.9 Gas Insulated Transformers (GIT)

A question was raised at the end of the Insulating Fluids Subcommittee meeting in Vancouver and again at the General Meeting (Closing Session) regarding whether or not IEEE standards exist for Gas Insulated Transformers (GIT), namely SF<sub>6</sub>.

After some discussion amongst the Administrative Subcommittee, it was decided that no we don't cover GIT, and see no need to cover it in the near future. The reasons are: there are no known manufacturers in North America making GIT, we have very limited expertise in IEEE, and there is no real demand from the marketplace for this technology.

There is a GIT standard in IEC, titled 60076-15 for Gas-Filled Transformers. In past years, there was interest in Japan, and they developed Japanese standard JEC-2200 to cover GIT. It is one of a few documents that JEC has translated into English.

There might be niche applications of GIT transformers, where users want non-flammability. However, we don't want to develop Standards before an established market need exists. Also, we can't write a standard document unless we have both users and manufacturers who are willing to devote their time and knowledge to the process. This issue is closed.

### 5.2.10 Entity WG (An Entity is a Corporation, Government Agency, or University)

We (Transformers Committee) have been asked by IEEE-SA to sponsor an Entity based PAR submitted by State Grid Corporation China (SGCC) covering Partial Discharge (PD) Testing of Transformers in the Field. It was presented at the Fall 2016 Vancouver meeting of the Dielectric Test Subcommittee (DTSC). The first step was for DTSC to determine if there is a need for the project and if there are other standards that already cover or could cover the topic. It was decided at the Administrative Subcommittee meeting that we do already have at least four (4) documents that cover PD. There is some potential conflict and overlap. Any new or additional material (for example, related to UHV application >1,000kV) could be easily added to our existing standards, some of which are currently undergoing revision, and others will be opened soon for regular revision anyway. So we would invite the PAR applicant to come join our committee on our revision work to incorporate any new material.

Respectfully submitted,

*Stephen Antosz*

Chair, IEEE/PES Transformers Committee  
April 6, 2017