

IEEE Transmission & Distribution Committee

<http://sites.ieee.org/pes-td/>



2018 MEETING MINUTES FOR T&D ADMINISTRATIVE SUBCOMMITTEE

MEETING LOCATION AND TIME

Portland, Oregon, USA

Thursday, Aug. 9, 2018, 08:00 to 11:00 AM

Room: OC-A108 (Oregon Convention Center)

INTRODUCTION AND ATTENDANCE

1. Daniel Sabin, Chair of T&D Committee
2. Gary Chang, Chair of T&D Administrative Subcommittee, Vice Chair of T&D Committee
3. John McDaniel, Past Chair of T&D Committee, Vice Chair for Awards and Recognition
4. Surya Santoso, Secretary of T&D Committee
5. Julio Romero Agüero, Chair of Distribution Subcommittee
6. Eriks Surmanis, Technical Committee Program Chair
7. Michael Kipness, IEEE-SA Program Manager for the T&D Committee
8. Mike Hulse on behalf of Richard Sévigny, Chair of Capacitor Subcommittee
9. Brian Johnson, Chair of HVDC & FACTS Subcommittee
10. Ed Hunt, Chair ESMOL Subcommittee
11. Kenn Sedziol, Power Quality Subcommittee

REPORT FROM IEEE PES EXECUTIVE COMMITTEE

Mike Kipness, IEEE-SA, m.kipness@ieee.org presented a proposal on Reorganization of IEEE T&D AdCom into the IEEE PES T&D Executive Committee. The following changes and motions were made:

- AdCom to have oversight of PARs: all in favor, no nay
- Administrative Subcommittee/Executive Committee is the authorizing body for sponsor ballots: all in favor, no nay
- Revise the P&P manual by the end of 2018: all in favor, no nay
- Executive Committee be the authorizing body for Sponsor ballots: all in favor, no nay

COORDINATION ACTIVITIES

CIGRÉ AND CIRED

Daniel Sabin is liaison for the PQ Subcommittee

John McDaniel is liaison for the Distribution Subcommittee

PREVIOUS MEETING MINUTES

ACTION ITEMS

- Julio is to identify the person from the Distribution Subcommittee who would provide the liaison report to the PQ Subcommittee: Likely vice chair of DRI WG, make sure he/she can attend JCTM 2019
- Approval of the previous meeting minutes: The minutes from previous meeting in Chicago, IL on July 20, 2017, were reviewed. The AdCom members approved the minutes.

REVIEW OF E-BALLOTS

The following PARs were discussed but no motion was made. The Adcom requested additional information (one-page summary and/or webinar) before sending e-ballots to members.

- P2747 Standard of requirements for energy consumption test and energy saving technology evaluation of electric power fittings
Submitter: Hongyun YU (SGCC)
[Email:13958020182@163.com](mailto:13958020182@163.com)
- P2772 Standard of test method for energy loss of overhead conductors
Submitter: Mrs. Jing Xu (Far East Smarter Energy)
Email Address:18861776299@600869.com
- P2800.1 Test procedures and evaluation for large-scale PV plants interconnection to electric power systems
Submitter: Chenhui
Email: Niuniuchenhui@epri.sgcc.com.cn

CHAIRMAN'S REPORT

Dan Sabin attended the IEEE PES Technical Council meeting on Aug. 8. Below is the highlight:

- Damir Novosel, past president, now chairs a TF on Industry Technical Supports (ITS). The TF provides enhanced support and increased cooperation with governments, regulators, and other industry organizations globally on technical issues related to power, energy and policy topics, coordinating its efforts with the IEEE Standards Association (IEEE-SA), IEEE-USA and relative societies and working groups within the IEEE.
- Pat Ryan, Executive IEEE: seeks materials for the Resource Center. Subcommittee is encouraged to do so as an action item.
- Doug Houseman, Intelligent Grid Emerging Technology Coordinating Committee: The committee is working on a white paper. **Action item:** Secretary to follow-up with him and distribute to Adcom for review.
- 123Signup: A central place to keep track of WG/Sub/Committee memberships. **Action item for the T&D Committee Chair:** provide a spreadsheet the following information: committee name, subcommittee name, working/task force group name, participant's first name, participant's last name, company name, and Europe (yes/no).
- PES Awards Committee: Nomination process is now completely web-based. Nominations went up 35%. The committee is developing a guideline in response to various PES Award Committee Questions. The idea is to help with a more uniform and equitable evaluation process across Society Awards. The 2019 nomination opens until Jan. 31.
- SCC21: IEEE Std. 1547 was approved 6 months ago. IEEE 1547.1 for test requirement and procedures is active. IEEE 1547.3 for monitoring information and control will expire at the end of 2019. IEEE SCC-21 will begin a new project to replace it.

- PES New Product Development: It is seeking instructors for webinars, tutorials for a wide variety of interests and technical matters. Presentations must be education-focused without promotional/commercial content.
- PES Resource Center: Earning PDUs and CEUs are possible with webinars and tutorials.
- IEEE-SA: IEEE-SA is working on revision of the agreement between IEEE and IEC. In the meantime, IEC standards cannot be adopted by IEEE because the IEEE is not a standards-making organization at a national level. That is, IEEE does is not recognized as the official standards-making organization for the United States, Canada, China, etc.
- IEEE Fellow nominations: The committee is chaired by Mladen Kezunovic. In the last cycle, it received 72 nominations. Changes of policy: the number of references depends on the society size. There is a IEEE PES Fellow Nomination Resource Committee to help guide nominations. No automatic reconsideration of unsuccessful nominations for the following year.
- IEEE Technical Council is seeking for a liaison between the IEEE PES T&D Committee and IEEE Sensors Council. **Action Item for the T&D Committee Secretary:** Poll the committee to determine if we want to assign a liaison to the IEEE Sensors Council.
- New business: IEEE TC would like to know if T&D has a WG on IoTs: Answer is NO.
- Informational: PES GM 2018 had attendance of 3100 people including 100 volunteers.

OFFICER ROTATION OF COMMITTEE AND SUBCOMMITTEES

The officers for the T&D Committee will rotate on January 1, 2019

Chair: Gary Chang

Vice Chair: Surya Santoso

Secretary: Eriks Surmanis, a motion was made to approve: all in favor, no nay

Past Chair and Vice Chair for Awards and Recognition: Daniel Sabin

Vice Chair, Standards: Michael Garrels

Technical Committee Program Chair (TCPC): Julio Romero Agüero, a motion was made to approve: all in favor, no nay

Fellows Coordinator: Daniel Sabin

Officer rotation reported during the Adcom meeting:

Distribution Subcommittee: New chair for the distribution subcommittee will be elected in the 2019 IEEE PES JCTM in Orange County, CA. The transition will take place immediately.

ESMOL Subcommittee: Jason Smith is a new secretary effective immediately. Ed Hunt and Eriks Surmanis continue to serve as Chair and Vice Chair, respectively.

OHL Subcommittee: Jerry Reding is a new Vice Chair and Robert Schaerer is the new Secretary, both effective immediately.

OFFICER REPORTS

VICE CHAIR REPORT

The deadline for the T&D Committee to submit its technical report to PES Technical Council is due by Jan. 31 each year. Each subcommittee chair please prepare a half- to one-page summary report (contents includes

summarizing projects on ballot or to be on ballot, new PARs, new working groups created, and new panels, etc.) to Committee Vice Chair to put them together for submission. **Dan Sabin will create a template for uniformity.**

TCPC REPORT

For 2018 PES GM, there are 78 papers submitted to the T&D Committee; 40 papers were accepted for publications.

Call for tutorials at IEEE PES North American Conferences in 2019 deadline: Aug. 31, 2018. Tutorial proposals must be sponsored or approved by the T&D Committee Chair. Proposals must be sent to LaToya Gourdine (l.gourdine@ieee.org) and Kathy Heilman (Kathy.Heilman@ieee.org) copy to the T&D Committee Chair

Tutorial proposals for IEEE PES GM 2019:

- PQ subcommittee: One four-hour tutorial on PQ based on IEEE Std 1250, coordinated by Matt Norwalk, and Joe Grappe
- HVDC/FACTS subcommittee: Two four-hour tutorials on integrating HVDC for offshore wind applications and planning for HVDC projects
- Distribution subcommittee: A full day tutorial on smart distribution, coordinated by Larry Clark

Papers for 2019 IEEE PES General Meeting (Aug. 4 – 8) can be submitted starting Oct. 2, 2018.

Paper and panel submission deadline is Nov. 6, 2018.

Committee Meetings Requests deadline is Nov. 7, 2018.

PAST CHAIR REPORT

Nothing to report

MILESTONES

Nothing to report

AWARDS

NEWLY ELEVATED FELLOWS

PES members were elevated to the grade of IEEE Fellow. The following names are in the T&D area:

Hideki Motoyama -for contributions to lightning protection and insulation coordination of electric power systems: Lightning Performance WG

OTHER AWARDS

IEEE PES Award for Excellence in Power Distribution Engineering: Dan Sabin.

Douglass M. Staszkesy Distribution Automation Award: Mike Simms, Duke Energy

Uno Lamm HVDC Award: Hong Rao

IEEE PES Nari Hingorani FACTS Award: Bruce Fardanesh

SUBCOMMITTEE REPORTS

CAPACITOR SUBCOMMITTEE

The capacitor Subcommittee had six WG meetings here in Portland:

- Series Capacitor WG
- Capacitor GMD Mitigation TF
- Shunt Capacitor WG
- Shunt Capacitor application guide 1036 WG
- Guide for the application specification for Harmonic Filter
- Low Voltage Shunt Capacitor Application TF

One task force did not meet is Capacitor Discharge Limitation Application paper TF.

The Capacitor Subcommittee did not hold any panel sessions but is discussing organizing a session. No officer rotation this summer, but Michael Hulse previously took the Shunt Capacitor WG Chair position due to Paul Marken being unavailable for IEEE activities

Regarding documents, Shunt Capacitor Application guide 1036 has been out to Ballot and is now closed. Guide for the application specification for Harmonic Filters is being sent out to Ballot

HVDC & FACTS SUBCOMMITTEE

Brian Johnson reported the following: HVDC & FACTS subcommittee held seven WGs and three panel sessions. There were multiple schedule conflicts. For the 2019 PES GM, the subcommittee proposed six panel sessions. One of which is a 4-hour panel. The subcommittee restructuring is continuing. A new WG is recently formed: IEEE P2745 Unified Power Flow Controller Working Group, Chair: Yi Yang, Email: y yang09@qub.ac.uk

DISTRIBUTION SUBCOMMITTEE

Julio Agüero reported the following: Distribution subcommittee held five WGs, seven TFs meetings, and one tutorial. One panel was canceled because speakers could not travel. The subcommittee embarked on developing a 5-year strategic plan/roadmap. It may take another six months to complete: additional WGs, TFs, to capture new and emerging trends. For example, DRI WG focuses on integration on renewables.

Julio will become the TCPC for the T&D Committee on 1/1/2019. A new chair for the Distribution Committee will be elected in 2019 IEEE PES JCTM in Orange County and effective immediately.

Distribution subcommittee plans to submit three to four panel and one tutorial proposals to IEEE PES GM 2019.

ESMOL SUBCOMMITTEE

Eriks Surmanis reported the following activities:

- ESMOL held 8 Working Groups meetings here in Portland
- Status of standard documents/PARs/ballots:
 - IEEE 1071 submitted for recirculation (PAR set to expire in 12/2018)
 - IEEE 1307 submitted for recirculation (PAR set to expire in 12/2018)
 - IEEE 516 to be submitted for balloting in this month, i.e., Aug. 2018, (PAR set to expire in 12/2018, will decide in September if a PAR extension is necessary)

- IEEE 1882 to be submitted for balloting this month (PAR set to expire in 12/2018, will decide in September if a PAR extension is necessary)
- Several papers being developed (Minimum Approach Distance, Helicopter Work and Qualifications - the paper may switch to a guide format)
- 14th IEEE International Conference on T&D Construction, Operation and Live-Line Maintenance - ESMO Conference is set for June 24-27, 2019 in Columbus, OH. www.ieee-esmo.com
- WG activities and officer rotations:
 - New Work Group chair for 1048: Gary Zevenbergen
 - New Work Group vice chair for 1307: Joseph Godwin
 - Discussion about HVDC Line Design Guide, ESMOL looking to contribute to live-working section

OVERHEAD LINES SUBCOMMITTEE

Paul Springer was not in the attendance but provided the following summary:

- OHL has 9 active WGs and all of them met in IEEE PES GM 2018 in Portland
- No panel sessions held, however, there are two tutorial during a ½-day Tuesday special session: Conductor Motion Control by Bryan Casenhiser, PLP and System Ratings by Hong Chen, PJM.
- Officer rotation: Gary Sibilant replaced John Chan as Chair of HVDC Lines (15.11.13). Vice Chair and Secretary are vacant.
- Status of standard documents/PARs/ballots:
 - 563 - 1978 PE/T&D IEEE Guide on Conductor Self - Damping Measurements: going to ballot
 - 664 - 1993 PE/T&D IEEE Guide for Laboratory Measurement of the Power Dissipation Characteristics of Aeolian Vibration Dampers for Single Conductors: going to ballot
 - 691 - 2001 PE/T&D IEEE Guide for Transmission Structure Foundation Design and Testing: Expiring this year, forming Task Force
 - 1243 - 1997 PE/T&D IEEE Guide for Improving the Lightning Performance of Transmission Lines: Referred to Emanuel Petrache (Lightning WG)
 - 957 - 2005 PE/T&D/Insulator Cleaning Guide: Belongs to ESMOL – revision should be done this year
 - 1368 - 2006 PE/T&D/TPC IEEE Guide for Aeolian Vibration Field Measurements of Overhead Conductors: Going inactive – no interest in revising
 - C135.1 - 1999 PE/T&D/TPC 15.11.08 - 10 IEEE Standard for Zinc-Coated Steel Bolts and Nuts for Overhead Line Construction: likely going inactive
 - C135.2 - 1999 PE/T&D/TPC - 15.11.08 - 10 IEEE Standard for Threaded Zinc - Coated Ferrous Strand - Eye Anchor Rods and Nuts for Overhead Line Construction: likely going inactive
 - C135.3 - 2001 PE/T&D/TPC - 15.11.08 - 10 IEEE Standard for Zinc-Coated Ferrous Lag Screws for Overhead Line Construction: likely going inactive
 - C135.61 - 1997 PE/T&D/TPC - 15.11.08 - 10 IEEE Standard for the Testing of Overhead Transmission and Distribution Line Hardware: Being absorbed into C135.100 show as superseded
 - 1998 PE/T&D/TPC - 15.11.08 - 10 IEEE Standard for Shoulder Live Line Extension Links for Overhead Line Construction: Being absorbed into C135.100 show as superseded
 - 644 - 1994 PE/T&D/TPC – Corona IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines: in balloting
 - 656 - 1992 PE/T&D/TPC - Corona IEEE Standard for the Measurement of Audible Noise from Overhead Transmission Lines: published

- 1260 - 1996 PE/T&D/TPC - Corona IEEE Guide on the Prediction, Measurement, and Analysis of AM Broadcast Reradiation by Power Lines: to RevComm
- 1542 - 2007 PE/T&D/TPC - Corona IEEE Guide for Installation, Maintenance, and Operation of Irrigation Equipment Located Near or Under Power Lines: in balloting
- 977 - xxxx Foundations: Significant comments received - PAR extension has been requested
- Miscellaneous: ESMOL joint meeting was well-attended. Doug Proctor and Jeff Wang gave a technical presentation on Spacer/Damper failures.

POWER QUALITY SUBCOMMITTEE

Ken Sedziol reported the following:

- PQ subcommittee held 10 WG meetings in Portland:
 - 1159 – 2009: Monitoring Electric Power Working Group - Steven Johnston
 - 1159.3 – 2003: Transferring Power Quality Data - Dan Sabin
 - 519 – 2014: Harmonic Control in Power Systems - Dave Zech
 - 519.1: Applying Harmonic Limits on Power Systems - Mark Halpin
 - 1250 – 2018: Voltage Quality Working Group - Nicholas Zagrodnik
 - 1453 – 2015: Light Flicker Working Group - Harish Sharma
 - PQ Issues with Grid Modernization Technologies - Dave Mueller
 - Power Quality Data Analytics - Surya Santoso
 - Time Varying and Probabilistic Aspects of Harmonics – Paulo Ribeiro
 - Harmonics Modeling and Simulation – Roberto Langella, Igor Papic
- In addition, PQ subcommittee also facilitated the following meetings:
 - Power Quality Interest Group – Scott Peele
 - SCC22 Power Quality Standards Coordinating Committee – Bill Howe
 - ICHQP Executive Committee
- One WG did not meet: 1564 – 2014: Voltage Sag Indices Working Group - Francisc Zavoda
- PQ subcommittee held 4 panel session in Portland
 - Power Quality and EMC issues associated with Smart Grids - Francisc Zavoda
 - Frontier in Power System Monitoring: Synchronized Waveform Monitoring System (SWMS) - Hardware Platforms and Emerging Applications - Surya Santoso
 - Methods for Online Customer Harmonic Emission Assessment – Theory, Modeling, Simulation, Implementation - Igor Papic & Roberto Langella
 - Harmonic Modeling and Stability of Renewable Energy Systems – Roberto Langella & Xiongfei Wang
- WG Officer Rotation:
 - IEEE 1250: Chair went from Theo Laughner to Nicholas Zagrodnik (Theo is completing the PAR), Vice Chair is Kevin Kittredge, Secretary is David Zech
 - IEEE 1159: New Secretary is Joseph Grappe (Previously Reza Arghandeh)
 - Power Quality Data Analytics Working Group: Surya Santoso stepped down as chair, new chair is Walmir Freitas. New Vice Chair (former Secretary) is Thomas Cooke. New Secretary is Kevin Kittredge.
- Status of standard documents/PARs/Ballots:
 - 1159 – Through ballot, working on comment resolution. Expires 12/31/2019.
 - 1159.3 – Currently in ballot, closes on August 23, 2018. Expires 12/31/2019.
 - 1250 – Currently in REVCOM, expect to publish in 2018. Expires 12/31/2018.

- 1453 – Notes say there is a PAR. Don't know the dates.
- Item of Interests: PAR 2800 – Coordination activity with SCC22
- Panel Session Planned for PES GM 2019:
 - IEEE 519 - Aggregate models of harmonics on distribution networks – Jan Meyer and Roberto Langella
 - IEEE 519 - Microgrids – PQ concerns in island-able systems. – Xavier Wang and Roberto Langella
 - PQ Issues with Grid Modernization Technologies – Wind and Solar Plants
 - Quality of Performance Parameters: Definitions, Measurements, Standards and Analytics – Paulo Ribeiro
- Tutorial Planned for PES GM 2019:
 - 4-hour tutorial on Power Quality using 1250 as a template – Matt Norwalk is submitting the Proposal, Joe Grappe volunteered to assist with instruction and content.

REPORT FROM INTELLIGENT GRID AND EMERGING TECHNOLOGIES COORDINATING COMMITTEE

The committee had a panel session, the white paper is in progress, need to be sent out to T&D Adcom for comments.

NEW BUSINESS

Mike Henderson: EiC of Power and Energy Magazine needs a liaison to T&D Committee. It was decided that T&D Committee's Vice Chair is to be the liaison.

COMMITTEE AND SUBCOMMITTEE WEBSITE STATUS

<http://sites.ieee.org/pes-td/>

Maintained by Dan Sabin (d.sabin@ieee.org)

ADMINISTRATIVE SUBCOMMITTEE

<http://sites.ieee.org/pes-td/adcom/>

Chair: Gary Chang

Maintained by Dan Sabin (d.sabin@ieee.org)

Revised: 2017-01

CAPACITOR SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/cap/>

Chair: Richard Sévigny

Maintained by Tom Grebe (tgrebe@ieee.org)

Revised: ?

DC & FACTS SUBCOMMITTEE

<http://www.ece.uidaho.edu/hvdcfacts/>

Chair: Brian Johnson

Maintained by Brian Johnson (b.k.johnson@ieee.org)

Revised: ?

DISTRIBUTION SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/dist/>

Chair: Julio Romero Aguero

Maintained by Dan Sabin (d.sabin@ieee.org)

Revised: ?

ESMOL SUBCOMMITTEE

<http://ieee-sa.centraldesktop.com/esmolpublic/>

Chair: Ed Hunt

Maintained by Eriks Surmanis (e.surmanis@pdc-cables.com)

Revised: ?

POWER QUALITY SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/pq/>

Chair: Ken Sedziol

Maintained by Dan Sabin (d.sabin@ieee.org)

Revised: ?

OVERHEAD LINES SUBCOMMITTEE

<https://ieee-sa.centraldesktop.com/overheadlineswg/>

Chair: Paul Springer

Revised: 2017-06-29

Maintained by ?

FUTURE MEETINGS

The next meetings for the subcommittees, working groups, and task forces of the IEEE T&D Committee are summarized in the following table:

Dates	Meeting	Location
2018 Oct. 21 - 25	ISGT Europe	Sarajevo, Bosnia
2019 Jan. 13 - 17	Joint Technical Committee Meetings	Anaheim, CA, USA
2019 Feb. 18 - 21	ISGT 2019	Washington, DC, USA
2019 June 24 – 27	ESMOL	Columbus, Ohio, USA
2019 Aug. 4-9	PES General Meeting	Atlanta, GA, USA
2020	T&D Conference & Expo	Chicago, Illinois, USA

Adjourn

The meeting is adjourned at 11:40 am