

# IEEE Transmission & Distribution Committee

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



## 2014 MEETING MINUTES OF T&D ADMINISTRATIVE SUBCOMMITTEE (DRAFT)

### MEETING LOCATION AND TIME

National Harbor, Maryland, United States  
Thursday, 2014 July 30, 08:00 to 11:30 AM  
Gaylord National Resort & Convention Center, Presidential Boardroom

### ATTENDEES

The T&D AdCom Meeting was attended by the following twelve people in the Gaylord National Resort & Convention Center from 8:00 to 11:30 AM on 2014 July 31.

- Bill Chisholm, Chair of T&D Committee
- John McDaniel, Chair of T&D Administrative Subcommittee, Vice Chair of T&D Committee, and Chair of Distribution Subcommittee
- Daniel Sabin, Secretary of T&D Committee
- Gary Chang, TCPC of T&D Committee and Vice Chair of Power Quality Subcommittee
- Rich Collins, Chair of Overhead Lines Committee
- Juan Martínez, Chair of General Systems Subcommittee
- Ed Hunt, Chair of ESMOL Subcommittee
- Richard Sévigny, Chair of Capacitor Subcommittee
- Ben Mehraban, Chair of HVDC & FACTS Subcommittee
- Brian Johnson, Secretary of HVDC & FACTS Subcommittee
- Erin Spiewak, IEEE-SA
- Meng Zhao, IEEE-SA

The meeting was chaired by the T&D AdCom chair, John McDaniel. The minutes were recorded by Dan Sabin.

### PREVIOUS MEETING MINUTES

The minutes from previous meeting in Vancouver on 2013 July 25 were reviewed. The AdCom members approved the minutes after making three minor corrections.

**Action Item:** Dan Sabin will post the approved minutes to the T&D Committee web site. This action item was completed on 2014 August 1.

The results of an eBallot sent via email on April 2014 was reviewed by the T&D Committee secretary, Dan Sabin.

Do you approve of the new Policies and Procedures for "T&D Committee Organization and Procedures Manual" document for the IEEE Transmission & Distribution Committee, dated 2014 April 2?

The results in the electronic ballot were eight “yes” votes and one “no” vote from the Overhead Lines Subcommittee. The Overhead Lines Subcommittee explained that they wanted the flexibility of meeting on their own in the winter if the JTCM was either too close to the first of the year or in a location not viewed favorably by their membership. Some other typos were noted by the Committee TCPC, Gary Chang. T

The motion to accept the O&P document was not passed, and was tabled until the AdCom Meeting at the IEEE PES General Meeting.

## ORGANIZATION AND PROCEDURES DOCUMENT

Bill Chisholm and John McDaniel made direct edits to the April 2014 version of the Committee’s Organization and Procedures (O&P) document. Changes were made to accommodate the flexibility requested by the Overhead Lines Subcommittee.

Some of the changes included having the TCPC of the T&D Committee as a member of the Transactions on Power Deliver Editorial Board instead of having the vice chair fulfill the role.

Another change was related to technical reports. Technical reports shall utilize the IEEE PES technical report template with the working group name on the cover page in the appropriate place. Some discussion focused on the fact that the technical report template is not easy to find on any of IEEE’s web sites.

A motion to accept the new O&P document was made by Bill Chisholm and seconded by Dan Sabin. The AdCom members present voted to accept Draft 6 of the O&P document.

**Action Item:** John McDaniel will provide Dan Sabin with a copy of the completed Draft 6. This action item was completed on 2014 August 1.

**Action Item:** Dan Sabin will post the approved O&P document to the T&D Committee web site. This action item was completed on 2014 August.

## OFFICER REPORTS

The T&D Committee’s chair, Bill Chisholm, provided a report on the current meeting. The count of papers submitted to the T&D Committee were down relative to the past few years. Some of the papers normally reviewed by the T&D Committee were reviewed by the Emerging Technologies Committee. Discussion at the July 2014 IEEE Technical Council will result in ETCC reviewing fewer of the T&D related papers in the future.

Bill reported that there is an interest to map the needs of PES. Doug Houseman is trying to compile this roadmap. The result of that activity was that several committees have overlap (e.g., there were up to three committees interested in some topics). Substations Committee and T&D Committee will be grouped together in this needs roadmap document.

**Action Item:** Dan Sabin will ask each subcommittee of the T&D Committee needs to provide the T&D Committee with the total number of members in their subcommittee (SC, WG, and TF) and to provide a categorization (US/Canada and Non US/Canada).

The Technical Council recommended that panel sessions at the IEEE T&D Conference and Expo that describe IEEE standards activities need to include information about the normal meeting time of related working groups and how new members can join.

T&D subcommittees and working groups have been enabled to use the IEEE PES Central Desktop. There is also a Join.Me web meeting option now available to T&D Groups, which includes computer presentation sharing and audio. The web site for Join.Me via IEEE's Central Desktop is located here:

<https://iee-sa.centraldesktop.com/joinme/frontpage>

**Action Item:** Each subcommittee chair should assign a subcommittee member to try to use the Join.Me web conferencing solution.

Erin Spiewak reported that a new procedure has been added to the standards approval process: when a standard first goes to ballot, there will now be a 65-day window for a public review period. This change was made to make IEEE Standards processes more open and compatible with the World Trade Organization (WTO). Interested parties from outside of IEEE-SA will be able to purchase a copy of the draft standard and will be comment on it. Comments received from the public review process are to be considered just as the comments from the balloters themselves. Typically, a ballot is open for 30 days, so the public comments could flow in for more than a month after first ballot itself has closed. It would also be possible for the public to purchase a copy of the draft standard after the first ballot has closed but before the 65-day public review window has closed to comment on the standard. The working group is free to proceed with the standards process and begin a recirculation while the public review is still running, however, a recirculation could be deemed necessary based on comments received from the public review. An option would be to wait until all public comments are received. This means that it would not be possible to make a decision as to whether a recirculation ballot is needed until just over two months after the opening of the initial ballot. The public would not be able to comment on the recirculation drafts(s) that would follow. The new public review process is not likely to be implemented for at least a year because it requires changes to the IEEE-SA eTools web application that must be implemented and tested.

**Action Item:** Each subcommittee chair should assign someone the task to update their member rosters, and provide the updated roster to the T&D secretary.

The AdCom revisited the new requirement that standards approved prior to 2008 must be balloted again by 2018.

There was some discussion at the Technical Council about the size of T&D Committee being one of the largest in PES and some discussion about the pros and cons of breaking it up into smaller committees.

Bill reported that it was his last General Meeting as chair.

## AWARDS

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### NEWLY ELEVATED FELLOWS

Bjarne Andersen, who has worked with the HVDC and FACTS subcommittee, was elevated to IEEE Fellow for leadership in High Voltage DC Transmission Systems, AC Power Electronics, and Reactive Power Compensation.

Bjorn Gustavsen from General Systems was elevated to IEEE Fellow for contributions to frequency-domain modeling techniques.

Chris Horwill, who has participated some with HVDC and FACTS, was elevated to IEEE Fellow was for contributions to testing and commissioning of flexible AC transmission systems

Thomas McDermott, who has worked with the Distribution Subcommittee, was elevated to IEEE Fellow for contributions to modeling and analysis of electric power distribution systems and lightning protection.

The complete list of IEEE Fellows is available on this page: [www.ieee.org/2014Fellowclass](http://www.ieee.org/2014Fellowclass)

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#### OTHER AWARDS

- George Larry Clark won the IEEE PES Douglas M. Staszkesy Distribution Automation Award.
- José Antonio Jardini won the IEEE PES Uno Lamm High Voltage Direct Current Award.
- Mark McGranaghan won the IEEE Charles Proteus Steinmetz Award.
- Harshad Mehta won the IEEE PES Nari Hingorani Custom Power Award.
- Ned Mohan won the IEEE PES Nari Hingorani FACTS Award.
- Thomas Tobin won the 2014 IEEE/PES Award for Excellence in Power Distribution Engineering.
- The IEEE PES Outstanding Chapters Awards went to the Boston Chapter, chaired by Susan Soergel, and the Panama Chapter, chaired by Ivan Castillo.

#### IEEE 1547

There was a revisit to the July 2013 vote by T&D AdCom to have distribution-related standards of SCC-21 brought to the T&D Committee. Specifically, the projects P1547.4, P1547.6, and P1547.7.

**Action Item:** Erin Spiewak will set up a conference call between the T&D Committee and SCC-21 to discuss the issue.

#### POLICIES AND PROCEDURES FOR WORKING GROUPS

The draft dated 2014 April 11 was voted electronically.

Do you approve of the new Policies and Procedures for Working Groups document for the IEEE Transmission & Distribution Committee, dated 2014 April 11?

Nine committee members voted yes and none voted no. The draft was approved on 23 April 2014.

#### TREASURER

It is required that we have a treasurer. Erin reported that there is a new software option available through IEEE-SA called NetSuite.

It was noted that ESMOL budget is reported by the organizers of the conference.

Add [http://standards.ieee.org/about/sasb/audcom/pnp/PE\\_TnD.pdf](http://standards.ieee.org/about/sasb/audcom/pnp/PE_TnD.pdf) to web page.

A motion was made to have the T&D Secretary act as the treasurer and was approved.

**Action Item:** Dan Sabin will update the committee web site to show his additional role as treasurer. This action item was completed on 2014 August 1.

#### COORDINATION ACTIVITIES

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## CIGRÉ AND CIRED

The Working Group on Distribution System Reliability will co-write a paper with the Council of European Energy Regulators (CEER) for the 2015 CIRED Event.

The US National Committee for CIRED has a web site at [www.cired.us](http://www.cired.us). Abstracts are due by 2014 September 12. Successful authors will be invited to submit a full paper by 2015 January 16.

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## COORDINATION WITH SPD COMMITTEE ON IEEE STD 1243

Ron Hotchkiss is the new liaison for the T&D Committee with the IEEE Surge Protective Devices Committee. Coordination will be achieved not via joint membership but rather via Central Desktop document collaboration.

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## WEB SITES

The AdCom members reviewed the IEEE ESMOL Subcommittee's web site in Central Desktop.

## OFFICE ROTATION

No person has been identified to act as the Technical Committee Program Chair (TCPC) for the T&D Committee, but a new person needs to be nominated by the end of the year.

**Action Item:** The T&D Committee officers must identify a new TCPC for the T&D Committee before December 2014.

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## DISTRIBUTION SUBCOMMITTEE

The Distribution Subcommittee nominated Julio Romero-Agüero as the next Chair of the Distribution Subcommittee. Julio was nominated by John, seconded by Dan, and approved after a short discussion. Julio will be chair on 2015 January 1.

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## HVDC & FACTS SUBCOMMITTEE

The subcommittee nominated Andrew Isaacs to be the new chair starting in 2015 January 1. The nomination of Andrew was moved, seconded, and approved unanimously.

## SUBCOMMITTEE REPORTS

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### CAPACITOR SUBCOMMITTEE

Richard Sévigny reported that the subcommittee is working on a technical report written on transient limited inductor (TLI) technology. The report will be published on the IEEE Resource Center.

**Action Item:** Dan Sabin will add Erin Spiewak's contact information on the web site under standards resources. This action item was completed on 2014 August 1.

Richard Sévigny is a Canadian representative on IEC Technical Committee 33, which is interested in having IEEE Std 1036.

**Action Item:** Richard will ask for advice from IEEE-SA on how to proceed with working with IEC TC 33.

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## HVDC & FACTS SUBCOMMITTEE

Ben Mehraban reported that there are two new working groups: the Voltage Source Converters Planning and Voltage Source Converters Grid Applications. The scope of their work is under development.

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## DISTRIBUTION SUBCOMMITTEE

John McDaniel reported that IEEE Std 1782-2014 is completed and approved by RevCom and will be published soon. The title of the standard is *Guide for Collecting, Categorizing and Utilization of Information Related to Electric Power Distribution Interruption Events*.

John reported that some of the working groups did not have optimal meeting room sizes or locations. The committee TCPC, Gary Chang, reported that some of the scheduling problems developed because the final publication of the conference program was very late.

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## ESMOL SUBCOMMITTEE

Ed Hunt reported that there are a lot of people coming to meetings that are not registering for the meeting. Ed is asking that IEEE come up with a way to better police registrations.

**Action Item:** Bill Chisholm will follow up with IEEE on how to better police conference attendees who have not registered.

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## GENERAL SYSTEMS SUBCOMMITTEE

Juan Martinez reported Working Group on Distributed Resources is now chaired by Amirnaser Yazdani of Ryerson University.

Juan reported that a large number of working group and task force papers are being rejected by IEEE Transactions on Power Delivery.

**Action Item:** Gary Chang will discuss the issues with Wilsun Xu, who the Editor-in-Chief of IEEE Transactions on Power Delivery.

Bill Chisholm reminded the AdCom members that there is an automatic plagiarism score now being computed for Transactions papers.

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## INTEGRATION OF RENEWABLES ENERGY INTO THE TRANSMISSION AND DISTRIBUTION GRID SUBCOMMITTEE

No subcommittee representatives were present to make a report.

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## OVERHEAD LINES SUBCOMMITTEE

Rich Collins reported that the Corrosion Management Working Group has a new chair, John Kail..

Two WGs have been combined into one: the Working Group on Design and Construction of Overhead Transmission Lines, chaired by Eriks Surmanis.

The subcommittee has been working on a technical report on Practical Vibration (check on title).

The subcommittee has a new web site on Central Desktop.

Rich would like to know if IEEE can make an option to get box lunches in order to allow people to attend the end of a morning meeting and the first meeting in the afternoon.

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## POWER QUALITY SUBCOMMITTEE

Gary Chang reported that a revision of the harmonic limits standard, IEEE Std 519-1992, was completed, with the new standard being IEEE Std 519-2014. Erich Gunther is the new chair of the working group.

A new guide on voltage sag indices was completed: IEEE Std 1564-2014.

The Steering Committee for the IEEE International Conference on Harmonics and Power Quality met on Tuesday afternoon. They had a conference attended by about 300 people in Bucharest in June. The next meetings are in Belo Horizonte, Brazil in 2016 and Ljubljana, Slovenia in 2018. The conference right now is being organized outside of the normal IEEE Meeting Scheduling and Promotion process. However, Erich Gunther is going to look into whether the meeting can be brought into the normal process.

## REPORT FROM EMERGING TECHNOLOGIES COORDINATING COMMITTEE

As Secretary of the T&D Committee, Dan Sabin is a member of the Emerging Technologies Coordinating Committee (ETCC), which is chaired by Nouredine Hadjsaid. The ETCC web site is online at this location:

<http://ewh.ieee.org/cmte/pes/etcc/>

The Emerging Technologies Coordinating Council organized a panel session on Energy Storage Technologies at the 2014 IEEE PES General Meeting. The presentations covered technology, economy, system integration, and feedback experience on some real scale pilot projects for grid applications.

ETCC will likely will host a panel session at the 2015 IEEE PES General Meeting on either how either Big Data or social media is being utilized in the electric power field. Numerous committees would be requested to help organize the panel sessions in order to ensure that many different points of view are represented, thereby allowing the identification of the specific areas where coordination is needed. Other topics discussed include nanotechnologies and high-performance computing.

ETCC would like the T&D Committee to review the following topics, which at present at considered the emerging technologies relevant to the transmission and distribution.

Technologies: High-Temperature Superconductivity (HTS) power lines; wires from ceramic materials; 2nd generation superconducting wire (DOE's partner SuperPower Inc., 70.5 kA in 322 m HTS wire), composite cores for high-temperature low-sag conductors; parallel distribution sensors; massively deployed sensors for underground cables; satellite imagery for identification of interference with overhead power lines; non-ceramic insulators; microgrid components; advanced algorithms and IEDs; smart sensors; wireless-substation and system-wide communications

This list is posted on this web page: [http://ewh.ieee.org/cmte/pes/etcc/ET\\_Transmission\\_Distribution.htm](http://ewh.ieee.org/cmte/pes/etcc/ET_Transmission_Distribution.htm)

ETCC requested that we review the list, and provide feedback on what technologies should be deleted, added, or revised. ETCC suggests in particular that the T&D Committee consider at the topics related to the European Offshore SuperGrid and nanotechnology applications in transmission (e.g., for reducing losses).

**Action Item:** Each subcommittee chair of the T&D Committee should review the list of technologies posted on the ETCC web site and provide feedback on which technologies should be added, removed, or edited.

**Action Item:** The T&D secretary should provide an update list of emerging technologies to the ETCC chair.

## COMMITTEE AND SUBCOMMITTEE WEBSITE STATUS

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

Maintained by Dan Sabin ([d.sabin@ieee.org](mailto:d.sabin@ieee.org))

Revised: 2014-07-31.

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## ADMINISTRATIVE SUBCOMMITTEE

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



Chair: John McDaniel  
Maintained by Dan Sabin ([d.sabin@ieee.org](mailto:d.sabin@ieee.org))  
Revised: 2014-07-31

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#### CAPACITOR SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/cap/>  
Chair: Richard Sévigny  
Maintained by Tom Grebe ([tgrebe@ieee.org](mailto:tgrebe@ieee.org))  
Revised: 2014-06-25

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#### DC & FACTS SUBCOMMITTEE

[www.ece.uidaho.edu/hvdcfacts/](http://www.ece.uidaho.edu/hvdcfacts/)  
Chair: Ben Mehraban  
Maintained by Brian Johnson ([b.k.johnson@ieee.org](mailto:b.k.johnson@ieee.org))  
Revised: 2014-03-04

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#### DISTRIBUTION SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/dist/>  
Chair: John McDaniel  
Maintained by Dan Sabin ([d.sabin@ieee.org](mailto:d.sabin@ieee.org))  
Revised: 2014-07-31

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#### ESMOL SUBCOMMITTEE

<http://ieee-sa.centraldesktop.com/esmolpublic/>  
Chair: Ed Hunt  
Maintained by ([e.surmanis@pdc-cables.com](mailto:e.surmanis@pdc-cables.com))  
Revised: 2014-07-07

**Action Item:** Eriks Surmanis should add IEEE's mandatory statement at the bottom of every web page: "IEEE prohibits discrimination, harassment, and bullying. For more information, visit <http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>"

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#### GENERAL SYSTEMS SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/gensys/>  
Chair: Juan Martinez (Albert Keri listed)  
Maintained by Brian Johnson ([b.k.johnson@ieee.org](mailto:b.k.johnson@ieee.org))  
Revised: 2014-03-04.

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#### INTEGRATION OF RENEWABLE ENERGY INTO THE TRANSMISSION AND DISTRIBUTION GRIDS SUBCOMMITTEE

<http://grouper.ieee.org/groups/td/renew/>  
Chair: Ernst Camm

Maintained by Michael Starke ([mstarke@ieee.org](mailto:mstarke@ieee.org)) and Travis Smith ([windman@ieee.org](mailto:windman@ieee.org))

Revised: 2010-01-14 but possibly up to date. Please update the dates and any incorrect information..

**Action Item:** Michael Starke needs to add IEEE's mandatory statement at the bottom of every web page: IEEE prohibits discrimination, harassment, and bullying. For more information, visit

<http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>

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#### POWER QUALITY SUBCOMMITTEE

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

Chair: Rich Bingham

Maintained by Dan Sabin ([d.sabin@ieee.org](mailto:d.sabin@ieee.org))

Revised: 2014-05-15

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#### OVERHEAD LINES SUBCOMMITTEE

Old Web Site: [www.ieee-tpc.org/](http://www.ieee-tpc.org/) )

Revised 2013-08-01

Maintained by Carol Douglass ([math711@yahoo.com](mailto:math711@yahoo.com))

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

Revised: 2014-06-05

Maintained by Michael Garrels

**Action Item:** Michael Garrels needs to add IEEE's mandatory statement at the bottom of every web page: IEEE prohibits discrimination, harassment, and bullying. For more information, visit

<http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>

Chair: Richard Collins

#### 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
<b>2015 January 11-15</b>	PES Joint Technical Committee Meeting	Garden Grove, California, USA
<b>2015 July 26-30</b>	PES General Meeting	Denver, Colorado, USA
<b>2016 May 2-5</b>	T&D Conference and Expo	Dallas, Texas, USA
<b>2016 July 17-21</b>	PES General Meeting	Boston, Massachusetts, USA
<b>2017 July 16-20</b>	PES General Meeting	Chicago, Illinois, USA

Adjourn

The meeting adjourned at 11:32 AM.