

**Capacitor Subcommittee
of the
IEEE PES Transmission and Distribution Committee
2019 Joint Technical Committee Meeting Minutes
Anaheim, California**

Wednesday, January 16, 2019

I. General meeting introductions and acknowledgments

The meeting was called to order by the Subcommittee Chairman Richard Sévigny.

Richard stated that Vincent Deslauriers could not attend the meeting and that Tom Grebe would be recording the minutes.

Attendees introduced themselves. The following 14 people were in attendance:

<u>Name</u>	<u>Company</u>	<u>Member or Guest</u>
Richard Sévigny	Hydro-Québec	Chairman
Tom Grebe	EnerNex	Webmaster
Gerard Winstanley	NEMA	Guest
Hua Liu	Southern California Edison	Member
Jan Paramalingam	Mitsubishi Electric	Member
Joe Meisner	American Electric Power	Member
Biswajit Singh	ABB Inc.	Member
Othmane Alaoui	ABB Inc.	Member
Dan Luke	Eaton's Cooper Power Systems	Member
Elyse Pham*	Southern California Edison	Member
Mark McVey	Dominion Energy	Member
Devki Sharma	Entergy Corporation	Member
Bryan Beske	ATC	Guest
Bharat Bhargava	Consultant	Member

* New Member or Guest, Welcome!

II. Approval of minutes of previous meeting

The minutes from the August IEEE PES General Meeting in Portland, Oregon, were reviewed. The meeting minutes were unanimously approved as submitted by a motion from Mark McVey that was seconded by Joe Meisner.

III. Membership review

The membership roster was not revised at this meeting. The subcommittee is open to new members and guests.

Membership roster can be found at: <http://grouper.ieee.org/groups/td/cap/>

IV. Chairman's report

Richard Sévigny stated that the IEEE PES T&D Committee had recently completed a revised Policy and Procedure Manual. He also discussed the concern regarding Roy Alexander's presence at future meetings and the controversy regarding a paper publication related to supercapacitors that are not currently present in the scope of the Capacitor Subcommittee. The paper issue is left into the hand of the editor in chief (Brad Lehman).

V. Liaison reports:

A. NEMA – Gerard Winstanley

The members did not meet during this meeting. A conference call is planned in February to cover outstanding items such as DC capacitors and a recommended performance test for fuseless capacitor banks.

B. IEC – Biswajit Singh

Since the last meeting in November 2016, few activities have been done and none related to our actual IEEE WG activities. The group has a new secretary from Italy. However, the next meeting has not been scheduled yet but eventually in fall of 2019.

C. CIGRÉ – Biswajit Singh and Mark McVey

WG C45.34 has worked on series overcompensated lines. Simulations are still undergoing. Mark is completing a corresponding article in Electra.

VI. Working group reports:

A. W.G. on Capacitor Technical Papers – Tom Grebe

From January 1st 2018 to December 31th 2018, 2 transactions papers were reviewed: 1 paper was accepted, and 1 paper was rejected. One IEEE Power Engineering Letter was reviewed and rejected.

B. W.G. on Capacitor Bibliography – Richard Sevigny

Two papers were added to the shunt capacitor technical paper summary. This revised document was added to the website.

C. Shunt Capacitor Working Group – Richard Sevigny for Mike Hulse

The working group had good discussions. Document is now fairly cleaned up and ready to go, questioning what additional test procedure we need to put in. The status of a new purposed Annex C containing a test procedure for the element fail safe test on fuseless capacitor designs was discussed. The Annex C has been placed in the draft document for further discussion. Umbrella criteria consideration will be provided by NEMA and Richard Sévigny

D. T.F. on Low Voltage Shunt Capacitor Application – Othmane Alaoui

The group met with 8-10 in attendance. The group discussed the current draft outline for the technical report or paper. The group is looking into finding new technical people to fill the content of the draft.

E. W.G. on Standard for Series Capacitors – Mark McVey

Mark reviewed the status of all of the proposed changes in P824, as well as the ballot process. There are two outstanding changes reflected from the CIGRÉ W.G C4/B5.41 brochures related to TRV and Ferro-resonance for overcompensated banks. The intent is for Mark to send the draft of Std 824 to the W.G. before the next meeting and then it should be ready to ballot soon after. Mark also discussed the need for starting the P1726 review again which is due to 2023

W.G. on the Application Guide for Shunt Capacitors (Std 1036) – Joe Meisner

The W.G. met on the 15th with 15 attendees. The outstanding ballot items were discussed, and the standard is ready to be balloted for a second time. Joe Meisner announced that he may not chair this WG or attend the capacitor meeting in the future.

F. T.F. on Capacitor GMD Mitigation – Mark McVey

There was very good discussions by the members of the group trying to determine what should be written on neutral blocking devices and to focus specifically on the capacitor part of the blocking devices because it is more in the scope of the Capacitor Subcommittee. Mark reviewed the current scope and status of the technical paper that is being completed by the group.

G. T.F. on Capacitor Discharge Limitation Application – Roy Alexander

The T.F. did not meet at this meeting.

H. Guide for Application & Specification of Harmonic Filter – Jan Paramalingam

Jan stated that the ballot would be opened again and the initial balloting comments will discussed at the next meeting.

VII. Old business:

Nothing to report.

VIII. New business:

- A.** Mark McVey agreed to continue as the Series Capacitor Working Group Chair and Ian Paramalingam will be the Vice Chair
- B.** The subcommittee would like to have a panel session as soon as possible. The subjects will be establish for the next meeting

IX. Future meetings:

- August 2019 – Atlanta GA
- January 2020 – Jacksonville, FL
- August 2020 – Montreal, QC, Canada
- January 2021 – New Orleans, LA

Meeting is adjourned at 1:45 PM.

Minutes prepared by Tom Grebe.