

**Capacitor Subcommittee  
of the  
IEEE PES Transmission and Distribution Committee  
2018 Joint Technical Committee Meeting Minutes  
Jacksonville, Florida**

**Wednesday, January 10, 2018**

**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 15 people were in attendance:

<b><u>Name</u></b>	<b><u>Company</u></b>	<b><u>Member or Guest</u></b>
Richard Sévigny	Hydro-Québec	Chairman
Mike Hulse	Bonneville Power	Vice 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
Roy Alexander	RWA Engineering LLC	Member
Stephen Ladd	Duke Energy	Member
Dan Luke	Eaton's Cooper Power Systems	Member
Devki Sharma	Entergy Corporation	Member
Pratap Mysore	HDR Engineering Inc.	Member
Yamille del Valle	NEETRAC – Georgia Tech	Guest
Daniel Sabin	Electrotek Concepts, Inc.	Guest

\* New Member or Guest, Welcome!

**II. Approval of minutes of previous meeting**

The minutes from the July 2017 IEEE PES General Meeting in Chicago, Illinois, were reviewed. The minutes were unanimously approved as submitted by a motion from Joe Meisner that was seconded by Roy Alexander.

### **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 was considering having a second JTCM-type meeting during each year. This additional meeting would be in September. The Capacitor Subcommittee is not in favor of attending this second meeting.

Richard also mentioned that long-time members Bill Chai and Paul Marken, both from General Electric, had resigned from the IEEE Capacitor Subcommittee during the past year. Bill Chai retired from General Electric in December, 2017.

### **V. Liaison reports:**

#### **A. NEMA – Richard Sévigny**

No activities have been reported since July 2017. The members could not managed to meet before this meeting

#### **B. IEC – Richard Sévigny**

Since the last meeting in November 2016, few activities have been done and none related to our actual IEEE WG activities. The next meeting is still planned to be in Brazil during fall of 2018 but no agenda has been produced yet.

#### **C. CIGRÉ – Richard Sévigny**

WG C45.34 has worked on series overcompensated lines. Simulations are still undergoing.

## **VI. Working group reports:**

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

From January 1<sup>st</sup> 2017 to December 31<sup>th</sup> 2017, 3 transactions papers were reviewed: 2 papers were accepted and 1 paper was rejected. One IEEE Power Engineering Letter was reviewed and rejected. Tom nominated reviewers Roy Alexander, Richard Sévigny, and Biswajit Singh for special recognition during 2017 on the IEEE Transactions on Power Delivery website. Tom also nominated the technical paper by Wilsun Xu, Tianyu Ding, Xin Li, and Hao Liang, “Resonance-Free Shunt Capacitors — Configurations, Design Methods and Comparative Analysis” for the 2108 IEEE PES Prize Paper Award.

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

Nothing to report.

### **C. Shunt Capacitor Working Group – Mike Hulse**

The W.G. met on the 9<sup>th</sup> with 12 people in attendance. 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. A new purposed Annex C containing a test procedure for the element fail safe test on fuseless capacitor designs was discussed. The Annex C will be placed in the draft document for further discussion. Mike mentioned that the W.G. has still time but should be able to go for balloting after the next few meetings.

### **D. T.F. on Low Voltage Shunt Capacitor Application – Steve Ashmore**

Nothing to report. This group did not meet.

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

The W.G. met on the 8<sup>th</sup> with 12 people in attendance. Mark reviewed the status of all of the proposed changes. 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.

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

The W.G. met on the 9<sup>th</sup> with 15 attendees. The remaining items were discussed and the standard is ready to be balloted. There was a motion to call for Quorum, which as approved unanimously by the group so the standard will be submitted for

balloting as soon as possible.

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

The T.F. met on the 8<sup>th</sup> with 12 people in attendance. 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. met on the 10<sup>th</sup> with 12 attendees. Roy reviewed the recent work and test results that were done. Roy needs some capacitors with element failure to see what all that impact the discharge capability. Roy is comfortable with a normal technical paper instead of a Technical Report (T.R.).

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

The W.G. met on the 8<sup>th</sup> with 12 people in attendance. There are actions items identified and included in the minutes of meeting. Everybody agreed that we are ready to go to ballot before the next meeting in August.

**VII. Old business:**

Nothing to report.

**VIII. New business:**

- A. P18 Working Group Chair: Mike Hulse was approved as the new P18 Shunt Capacitor Working Group Chair.
- B. A proposal for a Technical Council Distinguished Service Award for Bill Chai from General Electric was submitted.
- C. A proposal for a PES recognition award for technical report for the Transient Limiting Inductor Applications in Shunt Capacitor Banks (PES-TR16) was submitted.
- D. Daniel Sabin, current T&D Committee Chair, summarized that the IEEE PES was considering having a second JTCM-type meeting each year, the subcommittee meeting schedules for the next meeting were due in the next few days, and that the IEEE PES Resource Center was looking for additional papers or reports.

**IX. Future meetings:**

- August 2018 – Portland, OR
- January 2019 – Anaheim, CA
- August 2019 – Atlanta GA
- January 2020 – Jacksonville, FL
- August 2020 – Montreal, QC, Canada
- January 2021 – New Orleans, LA

Meeting is adjourned at 3:15 PM.

Minutes prepared by Tom Grebe.