

**Capacitor Subcommittee
of the
Transmission and Distribution Committee
2014 IEEE PES Joint Technical Committee Meeting Minutes
New Orleans, LA, United States**

Wednesday, January 15, 2014

I. Introduction

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

Attendee introductions were completed. The following 11 people were in attendance:

<u>Name</u>	<u>Company</u>	<u>Member/ Guest</u>
Richard Sévigny	Hydro Quebec	Chairman
Mike Hulse	Bonneville Power	Vice Chairman
Paul Marken	GE	Secretary
Roy Alexander	RWA Engineering LLC	Member
Bill Chai	GE - CPQP	Member
Tom Grebe	Electrotek Concepts	Member
Dan Luke	Eaton	Member
Halim Malaj	Con Ed	Member
Joe Meisner	AEP	Member
Shree Sathe	Eaton	Member
Biswajit Singh	ABB	Member

II. Previous Meeting Minutes

The minutes from the July 2013 Vancouver general meeting were reviewed. Minutes were approved as submitted by a motion from Mike Hulse that was seconded by Roy Alexander.

III. Membership Review

Membership roster was sent around for review / correction.

There are currently 39 members in the subcommittee,

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

This subcommittee is open to new members and guests.

IV. Chairman's Report

Richard is working on updated the list of PARs and their associated timeframes. Richard plans to send this out to the group for review.

V. Liaison Reports

A. NEMA – B. Chai

- The NEMA meeting was finalized last year and the CP1 group has now disbanded.
- NEMA recommended the platform be kept for any future issues or needs.
- Mark from EATON has resigned as vice chair. ABB's representative has volunteered to fill this position.
- A fall conference call meeting was supposed to be held in September but did not occur due to scheduling issues. Bill is hoping this will take place in the spring.

B. IEC, CIGRE – B. Chai

IEC – B. Chai

- A meeting was held in September in Rio de Janeiro, Brazil. This was hosted by Furnas.
- IEC60143 -1 and -4 were discussed.
- A good discussion took place. Presently the group is in the final stages of updating this standard.
- A meeting may be held in Sweden to hold a final vote. This may be in May 2014 timeframe.
- Dr. Nagamani from India has volunteered to be the new Chairman of TC33. Per the most recent vote it appears that she has been elected.
- The IEC 2014 General Meeting will be held in Tokyo. If a May meeting does not take place then the November general meeting will be the location of the next meeting.
- 60871-1 is the shunt capacitor standard. The results of the vote indicate a majority of the countries have approved the revision. It appears that all technical comments have been approved at this time.
- It is expected that 60871-1 will be issued soon. Either in 2014 or 1015 at the latest.
- IEC60871-1 adopted proposal to include Overvoltage test as type test similar to the newly added Performance test in IEEE Std. 18-2012. The one major deviation is the daily cycling test of 60 switching for IEC vs 150 daily switching for the IEEE. The IEC is flexible in allowing different number of daily switching.
- The plan was to harmonize the IEC standard with the IEEE standard. The IEEE standard was stronger due to its inclusion of a dielectric stress test. It was disappointing that a deviation has appeared at the last minute.

- For 60871-2 endurance test. This will only be an aging test based on the new testing content. Changing the name is a big deal and so will not be done and it will still be called an endurance test.
- A vote was also held on 60143-4. The United States cast a negative vote but it appears that this will also pass.
- A new proposal came from the Chinese national committee for an installation standard. This contains very detailed information and includes many tables and charts. Bill is concerned that this is very region specific detailed information and may not be appropriate for a standard. The only choices are standard or a technical specification.

CIGRE – B. Chai

- Next general meeting will be held in Paris in August. Nothing specific is planned for this meeting related to capacitors.

VI. Working Group Reports

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

No PES Letters were reviewed.

Five papers were submitted for review. 1 revise and resubmit. 4 rejected. 0 accepted. The resubmit did not occur.

Anyone that would like to review papers, please submit your name and email address to Tom Grebe so he can add you to the reviewers list. This is open to anyone.

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

One paper was added to the bibliography. Richard asks if anyone knows of a paper to let him know and he will add it to the bibliography.

C. Shunt Capacitor W.G. (Std. 18) – Jeff Nelson

Jeff is ill. This group did not meet this week.

D. Shunt Capacitor Technical Report W.G. – Jeff Nelson

Jeff is ill. This group did not meet this week.

E. W.G. on the Series Capacitor Guide (P1726) – Mark McVey

Mark had to leave early. Mike Hulse reported on Mark's behalf. P1716 is completed and approved. P1726 should be updated this year!

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

Joe is working on the guide and is presently soliciting input. Mike Hulse has agreed to be Vice Chair of this group. The PAR will be submitted very soon.

G. W.G. on Reactor Applications for Capacitor Switching Technologies – Roy Alexander

Roy reported that he wants to wrap up his technical report this summer. Content wise this document is pretty close. Roy also presented information from his research on capacitor discharge which was very interesting. How this could eventually be reported is under consideration. This could be a paper or other publication.

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

Mike Hulse reported for Mark McVey. This group met on Monday. Mark has a lot of material that he wants to cover in his document. He may need to break this up into multiple documents.

VII. Old Business

None.

VIII. New Business

Per the Vancouver meeting, the new officer rotation is in effect.

- Richard Sévigny (Hydro Québec) is the new chairman.
- Mike Hulse (Bonneville Power Administration) is now the vice chairman.
- The group has appointed Paul Marken (General Electric) to be the new secretary. This was affirmed by unanimous verbal acclamation.

Tom Grebe reported on the subcommittee website. Tom is planning on continuing to be the subcommittee webmaster. He has been updating links to PES websites etc. Tom is looking at reviewing the membership roster and will keep this up to date. Tom asks that the working group chairs keep him in the loop and he will keep the website up to date with the status of what is happening in the working groups. He especially wants to keep the working group chairs listed correctly. As standards are updated, or as new work is happening he wants to put this kind of information on the website as well.

The subcommittee website can be found at:

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

IX. Future Meetings

- The next meeting will be held at the PES General Meeting July 27-31, 2014 at National Harbor, MD, just south of Washington, D.C.
- Next winter meeting location is not yet finalized. It might be held in Anaheim, CA.
- The 2015 PES General Meeting will be in Denver, CO.
- The 2016 winter meeting has possibilities of being back in New Orleans.

Minutes prepared by Paul E. Marken