

Meeting Minutes
Capacitor Subcommittee
of the
Transmission and Distribution Committee
San Diego, California
July 15, 1998

I. Introduction

The meeting was called to order by Chairman Jeff Nelson at 1:30 PM.

The following people were in attendance:

| <u>Name</u> | <u>Company</u> | <u>Member/Guest</u> |
|-----------------|-------------------------|---------------------|
| Jeff Nelson | TVA | Member |
| R.G. Andrei | AEP | Guest |
| Ignacio Ares | Florida Power & Light | Member |
| Jim Barcus | | Member |
| Bill Chai | GE | Member |
| Clay Fellers | Cooper Power Systems | Member |
| Karl Fender | Cooper Power Systems | Member |
| Chuck Gougler | IEM | Member |
| Tom Grebe | Electrotek Concepts | Member |
| John Harder | Applications Consultant | Member |
| Mark McVey | Virginia Power | Guest |
| Ben Mehraban | AEP | Member |
| Stan Miske | General Electric | Member |
| Don Ruthman | Myron Zucker, Inc. | Member |
| Richard Sevigny | ABB | Member |
| Rao Thallam | Salt River Project | Member |

- * - **R.G. Andrei of AEP presented his paper entitled "A Novel Fuseless Capacitor Bank Design Using Conventional Single Bushing Capacitors".**

II. Previous Meeting Minutes

The minutes from the February 4, 1998 meeting were approved as submitted.

III. Membership Review

The following people resigned from the Capacitor Subcommittee:

Stephen Hertz

The following people were added to the Capacitor Subcommittee Membership list:

None

IV. Chairman's Report

- Starting with the 1999 Winter Power Meeting, Conference Papers are to be published in Conference Proceedings. They can later be submitted as Transactions Papers. Deadline for abstracts is August 15, 1998.
- Anyone wishing to ballot a document must be a member of the IEEE Standards Association.
- There is a proposal to change IEEE Standards to IEC Format.
- Working Group Chairs need to submit names and addresses of all members to the subcommittee secretary by July 31, 1998.

V. Liaison Reports

A. NEMA - B. Chai for G. Newcomb

- A proposed Capacitor Discharge Test will be discussed at the next NEMA meeting.

B. IEC - B. Chai for G. Newcomb

- "Status of IEC Documents/Publications for which TC33 is Responsible" was distributed.

C. W.G. C37.99, Protection of Shunt Capacitor Banks - J. Harder (John submitted a written report dated July 15, 1998 which is summarized below.)

- Most recent meeting was May 11 - 14, 1998.
- Discussed changes to include internally fused, fuseless, and unfused capacitor banks.
- Worked to resolve group ballot comments to draft 2.
- The current revision is Draft 2c. A hard copy and a self extracting zip file of Draft 2c was submitted to the Capacitor Subcommittee Secretary.
- Draft 3 will be balloted in August.
- The next meeting is September 14-17, 1998 in Asheville, North Carolina.

D. W.G. C37.66, Capacitor Switches - J. Nelson

- No update.

E. TCSC - Stan Miske

- Developed preliminary outline for new document. PAR was submitted.

VI. Working Group Reports

- A. W.G. on Capacitor Technical Papers - T. Grebe
 - 1 paper was submitted and was accepted.
- B. W.G. on Capacitor Bibliography - R. Sevigny
 - Bibliography is now on the WEB Page.
- C. W.G. on Standard for Series Capacitors - S. Miske
 - Revised first draft of IEEE 824 was reviewed with many comments. PAR not yet submitted.
 - Distribution Series Capacitor Paper will be a Transactions Paper.
 - The Protection Subcommittee wants a joint panel session on series capacitors with the Series Capacitor Working Group.
- D. W.G. on Standard for Shunt Power Capacitors - I. Ares
 - IEEE Std. 18 was balloted. Out of 23 active members, 16 ballots were received.
 - 4 - Negative
 - 5 - Affirmative
 - 7 - Affirmative with Comments
 - Will request IEEE for formal ballot of next draft.
- E. W.G. on Application Guide for Shunt Power Capacitors - A. Bonner
 - Worked on correlation with IEEE Std. 18
 - Incorporated Momentary Overvoltage, Transient Current, and Voltage.
 - Reviewed Protection Section and inclusion of Fuseless and Internal Fused.
 - Will ballot Working Group by Sept. 15
 - Revision date and PAR date need to be reviewed and extensions requested if necessary.
- F. W.G. on Harmonic Filters - T. Grebe for E. Reid
 - Task Force sections will be sent to Tom Grebe by Oct. 15.
 - Draft 1 of full document to working group by Dec. 15.
 - Comments on Draft 1 returned by Jan. 15.
 - PAR has been approved.
- G. Task Force on Capacitor Subcommittee Activities
 - No Report.

VII. Old Business

- A Forum was added to the T&D WEB Page. Capacitor Subcommittee Forum is part of this.
- Tom Grebe gave a presentation on the T&D and Capacitor Subcommittee WEB Pages.

VIII. New Business

- Topics for panel / paper sessions. (Suggestion for Mobile Banks as a topic.)

IX. Next Meeting

Meeting in New York on January 31 - February 4, 1999.