

## Meeting Minutes

### WG 824: Series Capacitor Working Group

#### of the Transmission and Distribution Committee San Francisco, California 14 June 2005

**Date:** June 14, 2005, 08:00 AM– 5:00 PM.

**Place:** Westin St. Francis Hotel, San Francisco, CA

#### 1. Introduction

The meeting was called to order by Bruce English, Acting Chair of working group.

The following people were in attendance:

Name	Company	Member/Guest
Todd Campbell	GE	M
Marcelo Capistrano	PG&E	M
Bill Chai	GE	M
Bruce English	GE	M
Tom Grebe	Electrotek	G
Lauri Latipaa	Nokian Capacitors	G
Per Lindberg	ABB	M
Dan Luke	Cooper Power Systems	G
Mark McVey	Dominion Virginia Power	M
Jeff Nelson	TVA	M
Stephan Weiss	Interoptix	G

#### 2. Previous Meeting Minutes

The minutes from the January 9, 2005 San Diego meeting were approved as submitted.

#### 3. Additional Agenda Items

Discussion of website hosting for the capacitor subcommittee (<http://grouper.ieee.org/groups/td/cap/>) and working group (<http://grouper.ieee.org/groups/td/cap/seriescap/>) by Tom Grebe.

#### 4. PAR Status

Mark McVey reports information sent to Karl Martlesen, needed to verify final name of document. Final name of “*IEEE Guide for the Specification of Fixed Series Capacitor Banks for Transmission System Applications*” was agreed to and finalized.

Discussion on scope of document: it was emphasized that this document was to be formative and not normative.

## 5. Guide For Specification

Overall, Bruce English volunteered to import entire document into new IEEE template format and to review style guide. Many questions (e.g. bibliography style, standards citations of publishing year, etc.) are addressed in this guide. Also discussed was the overall organization of the document—first to compare how the SVC guide is arranged, and secondly to come up with a process flow chart of how a series capacitor project progresses from start to finish, and then arranging the document to reflect this process flow. Todd Campbell volunteered to take a first-pass on this flow chart.

Reference Section (2):

- Check into final publishing date of IEEE 824 (2004) and 693 (1997).
- Make into a numbered reference list.

Definitions Section (3):

- Comparisons done by John Harder, need to do word search.
- Move TPSC Figure to Annex A.3.
- TPSC description location discussion (continued later).
- Insert Figure 1 into this section (general overview one-line diagram).
- Acronyms (3.2), perform word-search and remove those not used in list.

Scope Section (4): Todd Campbell volunteered to review this section.

Service Conditions (5):

- 5.2.1.f) Reference IEEE Application Guide 1313.2-1999, Section 6, and IEC 60071
- 5.3/5.4 Move sections into lists found in 5.1 and 5.2 to simplify structure.

Interlude: Jeff Nelson (IEEE 18 and 1036 revision working-group chairman) made guest appearance to discuss work being done on shunt capacitor bank standard and application guide.

Overall organization discussed again with some useful suggestions on how to proceed on a major revision/rewrite of application guide (which needs to be done in any case to conform to new 2005 style guide).

Overvoltage Protective Devices (9):

- 9.3 TPSC: OV protection or fast-bypass device? Looking for a champion for this idea, send John Joyce a homework assignment. If OV protection then testing/certification needs to reflect differently as opposed to fast-bypass device (similar to TAG) to reduce MOV quantity.
- 9.4 insert discussion on spark gap here? Bruce English volunteered to compare/contrast with 9.2 and selection of VPL (Section 11).

Disconnect Switches: WG agreed the addition of such a section would be beneficial. Marcelo Capistrano volunteered to draft this section.

Section 11.4: Per Lindberg agreed to write a discussion regarding the influence of VPL on system stability.

Agreed that sections containing discussions on testing (production/routine testing and design/type testing), quality control, and reliability/availability/maintainability (RAM) should be a part of this document.

Per Lindberg agreed to send Jan Sameulssen's contributions to insulation coordination (Section 6), Annex D1, and Annex F.

## 6. Review of the K13 Document

Mark McVey spoke with Gerald Lee, and Gerald will look at K13 document closely. Balloting process is planned and members were encouraged to participate with their votes and comments to document. Mark agreed to look at PAR for the document and compare it to the existing scope.

**7. Other Discussion—Next Revision of 824**

The next revision of 824 standards document should contain a significant expansion of bypass breaker testing requirements.

Winter meeting scheduled for January 9, 2006 in New Orleans. (This was moved to Las Vegas on January 16, 2006 because of Katrina.)

Respectively Submitted,  
Bruce English, Acting Chair  
January 13, 2006