

Meeting Minutes

WG 824: Series Capacitor Working Group

of the Transmission and Distribution Committee San Antonio, Texas January 8, 2008

Date: January 8, 2008, 08:00-11:00 AM

Place: Hyatt Regency, San Antonio, Texas

1. Introduction

The meeting was called to order by Bruce English, chairman of the working group.

The following people were in attendance:

| Name | Company | Member/Guest |
|---------------------|----------------------------|--------------|
| Bharat Bhargava | Southern California Edison | M |
| Bruce English | GE | M |
| Per Lindberg | ABB | M |
| Mark McVey | Dominion Virginia Power | M |
| Frank Plumptre | BC Hydro | G |
| Mark Reynolds | Siemens PTD(USA) | M |
| Vittal Rebbapragada | Pacific Gas & Electric | M |
| Rao Thallam | Salt River Project | M |
| Duane Torgerson | Winfield Enterprises, LLC | M |
| David Zinn | Florida Power & Light | G |

2. Previous Meeting Minutes

The minutes from the June 2007 meeting in Tampa, FL were not available to be approved. Previous meeting was discussed briefly.

3. Additional Agenda Items

Reminder of website hosting for the series capacitor working group (<http://grouper.ieee.org/groups/td/cap/seriescap/>).

4. PSRC Guide (K13) Document Discussion

Frank Plumtre, chair of K13 WG, attended and was able to share document status. Document approved and will be published, K13 group writing a summary paper (white paper) to be published in Transactions and invited 824/1726 WG members to provide input to paper. Paper may be published as early as May 2008 and K13 WG will be disbanded after publication.

5. Draft Guide for the Specification of Fixed Series Capacitor Banks for Transmission Systems

PAR has been accepted, document is now IEEE-P1726, "Draft Guide for the Specification of Fixed Series Capacitor Banks for Transmission System Applications"

Vittal Rebbapragada reports that his and Om Nayak's paper on bypass switch closing transients is almost complete. Will be shared with WG when complete and included as one of the informative Annexes in document.

Distribution series banks not in scope of document, however could be considered for one of the informative Annexes. Could write an Annex that references and/or mimics (Stan Miske, "Considerations for the Application of Series Capacitors to Radial Power Distribution Circuits", abstract found here: http://ieeexplore.ieee.org/xpls/abs_all.jsp?tp=&arnumber=915500&isnumber=19780) previous work done in this area.

Most recent document, P1726D8.0, can be found at:

http://grouper.ieee.org/groups/td/cap/seriescap/IEEEP1726D8_20071119_FSCSpecGuide.doc

Section Assignments from June 2006 meeting in Montreal, with status of each assignment plus notes as to what needs to be completed:

- 9.1: Clay Fellers and Karl Fender - section drafted, about 75% complete. Fellers/Fender requested to review this section and suggest additions or rewrite it. Also request Fellers/Fender as well as Bill Chai to review Appendix B.6.1 and suggest any additions that come to mind to help clarify.
- 9.2: Per Lindberg - section drafted and input for B.6.2 received. Lindberg requested to review both sections and suggest any additions or revisions to either/both sections.
- 9.3: Bruce English - section drafted, needs review. Nothing written in corresponding B.6.3 yet.
- 9.4: John Joyce and Mark Reynolds - nothing received for this section or B.6.4 yet.
- 9.5: Per Lindberg - nothing in this section, but note that everything submitted by Per for this section can be found in B.6.5
- 9.6: Bruce English - section drafted, needs review. Nothing written in corresponding B.6.6 yet.
- 9.7: Mark McVey - section drafted, needs review. B.6.7 contains short discussion on bypass switch TRV, but needs more meat to flesh out a lot of detailed fill-in data help for 9.7.
- 9.8: Mark McVey - nothing received for this section or B.6.8 yet.
- 9.9: Bruce English - section about 10-20% complete, needs a lot of work, nothing in B.6.9 yet.
- 9.10: Todd Campbell - nothing received for this section or B.6.10 yet.
- 8.1: Mark McVey - section drafted, needs review
- 8.2: Bruce English - section drafted, 75% complete
- 8.3: Clay Fellers and Karl Fender - nothing received for this section yet
- 8.4: Per Lindberg - section drafted, needs review
- 10: Per Lindberg - small paragraph included, section B.7 needs something, discussion should be coordinated with 8.4 (RAM)
- 11: Bruce English - section not yet drafted, nothing in B.8
- 12: Bruce English - section not yet drafted, some stuff in B.9 however
- 14: Peter Zhao - section drafted, needs review, B.11 needs some material
- 15: Peter Zhao - section drafted, needs review, B.12 needs some material
- 16: Mark McVey and Bruce English - section not yet drafted, nothing in B.13
- 17: Todd Campbell - section not yet drafted, nothing in B.14
- 18: Bruce English - section not yet drafted, nothing in B.15

Consider introducing some complexity in either section 5.1 and B.2.1 to discuss refurbish and replacement workscopes.

Discussed whether or not to introduce the concept of liability in DOR (5.1) for unusual worksopes such as cherry-picking equipment, refurbishing banks, and PCB contamination of worksite. Will need to discuss further, general consensus was not to get too detailed, but to generically introduce the notion in these sections.

Mark McVey volunteered to set up a conference call in late February to kick off extra discussion between now and Pittsburgh meeting. Bruce English will attempt to format website (<http://grouper.ieee.org/groups/td/cap/seriescap/>) to facilitate fluid and informal discussion to help move the process forward.

6. Old Business

7. New Business

Summer meeting scheduled July 20-24, 2008 in Pittsburgh, Pennsylvania.

8. Meeting Adjourned

Respectfully submitted,
Bruce English, Chair
January 8, 2008