

Meeting Minutes

PC37.012a Application Guide for Capacitance Current Switching for AC HVCB

October 11, 2017 Portland, ME

Introduction of Members and Guests

Attendees: 54

Members: 25

Guests: 29

Call for Patent Identification

No claims

Discussion

- Discussion about inrush current integral (ICI) compared to peak current and frequency
- CIGRE is currently working on a way to explain ICI, this task force might wait on CIGRE
- Keep peak current on inrush current but do away with frequency requirements
- Inrush frequency requirements are peppered throughout C37.012 so it will be hard to make changes because they are throughout document
- Review of current draft of C37.012a
- Making Overvoltage Factor Test from C37.09, an old test that is no longer needed with today's simulation software: working group asked if it should go into amendment. Keeping or doing away with the test was not put to a vote, but consensus seemed to be to keep it out.
- IEC application guide 306 addresses opening reactor compensated capacitor banks after a few seconds that will not have current zeros for a few seconds
- Need waveforms added to section 6.5
- Check to see if other inrush current concerns are mentioned in the standard so that no one seems to think inrush current as a whole is not a concern
- Wording or explanation in preferred ratings tables of C37.04 for inrush current frequency should probably be removed. This should be put into an annex.
- Are values in Table 14 and 20 of C37.06 realistic? Should they be amended as well?
- Most capacitor switching failures occur during opening. Should this be addressed as well as closing?
- Edgar Dulhi gave an update on CIGRE A3.38
- Intent is to circulate a ballotable draft by March 12, 2018 for discussion at the next meeting, then vote on going to ballot.

Adjournment

Attendance

<u>Name</u>	<u>Affiliation</u>	<u>Member/Guest</u>
Roy Alexander	RWA Engineering	Member (Chair)
Brian Roberts	Southern States	Member (Vice Chair)
Denis Dufournet	GE Grid Solutions	Member
Casey Weeks	Siemens	Member
Victor Herosillo	GE Grid Solutions	Member
Mike Skidmore	AEP	Member
Xi Zhu	GE Grid Solutions	Member
Helmut Heiermeier	ABB	Member
Curtiss Frazier	Ameren	Member
Jim van de Ligt	Shaw	Member
Arben Bufi	HVB	Member
Mauricio Aristizabar	ABB	Member
Michael Christian	ABB	Member
Jeff Golarz		Member
Carl Schuetz	ATC	Member
David Caverly	Trench	Member
Pat Di Lillo	Con Ed	Member
Stephen Cary	GE Grid Solutions	Member
Mike Crawford	MEPPI	Member
John Eastman	Franklin Grid	Member
Edgar Dulhi	ABB	Member
Sushil Shinde	ABB	Member
Will Zhang	HVB	Member
Moin Shaikh	Siemens	Member
Hua Ying Liu	SCE	Member
Amir Khosravi	BC Hydro	Guest
Joanne Hu	RBJ Engineering	Guest
Jon Rogers	Siemens	Guest
Andrew Chovanec	GE Grid Solutions	Guest
Devki Sharma		Guest
Tom Pellerito	DTE	Guest
Vincent Marshall	Southern Co	Guest
Jennier Hunter	MEPPI	Guest
Joe Jasinski	ITCTRANSCO	Guest
Allan Morse	Schnieder	Guest
Richard Burge	Southern States	Guest
Andrew Petersen	ABB	Guest
Chris Slattery	First Energy	Guest
Rich York	MEPPI	Guest

Jason Cunningham	HVB	Guest
Robert Warren	KEMA	Guest
Sergio Flores	Schnieder	Guest
Kirk Smith	Retired	Guest
John Hall	TVA	Guest
John Phouminh	Pepco	Guest
Jerry Wen	BC Hydro	Guest
Dave Lemmerman	Peco Energy	Guest
Neil Hutchins	Southern Co	Guest
Dave Mitchell	Dominion	Guest
Vernon Toups	Siemens	Guest
Jeff Door	H-J Enterprises	Guest
Jeremy Heusberger	MEPPI	Guest
Neil McCord	KEC Precision	Guest
Edwin Almeida	SCE	Guest