

PC37.016 WG, Standard for AC High Voltage Circuit Switchers Rated 15.5 kV (HVCB)

April 01, 2024 – Ft. Lauderdale, FL

Chair: Neil McCord (Consultant)

Vice Chair: Sudarshan Byreddy (Consultant)

Secretary: Luke Collette (Utility)

Meeting Minutes

1. Call to order and introduction:

The PC37.016 WG IEEE Standard for AC High Voltage Circuit Switchers Rated 15.5 kV met on Monday, April 01, 2024, at 3:45 P.M. Neil McCord, Working Group Chair, presided over the meeting.

2. Introduction of Members and Guests

Roster distributed and attendance recorded (attendance sheet attached to MOM).
40 in attendance with 18 of 24 members (75%) present. Quorum met.

3. Review of Copyright, Patent, and Behavior/Ethics Slides & Call for Patents

Chair called for any potential Patent claims. No Patent claims identified.

4. Review Agenda & Discussion Membership Responsibilities:

Attendance sheet was circulated.

5. Approval of Previous Meeting Minutes:

Chair presented MOM from Spring 2023 meeting:

- Motion to Approve MOM: Kirk Smith
- 2nd to Motion: Brian Roberts
- Approved by unanimous consent

Chair presented MOM from Fall 2023 meeting:

- Motion to Approve MOM: Brian Roberts
- 2nd to Motion: Dave Mitchell
- Approved by unanimous consent

6. Presentation by Chair of the Draft Document (attached to MOM)

Reviewed the current draft document and with discussion on the following items:

Contents – Chair briefly went through the scope of the document and definitions section.

Discussion on terminal fault:

Terminal fault – Fault between circuit switcher and Transformer

Transformer limited fault – Fault current is limited by Transformer impedance.

Remove the section 5.12.2 and add the reference IEEE C37.04

The chair discussed whether inherent TRV included in the standard and any specifics regarding that.

The working group decided to form a task force to define applications for circuit switchers so that the TRV requirements can be defined. The following volunteered for the task force:

Volunteers

- Mark Peterson Xcel Energy
- Ben Sax – NES
- Dave Mitchell – Southern States
- Pete Marzec – S&C

7. Future Meetings

Plan for next meeting is a virtual meeting in mid-summer.

8. Meeting Adjourned at 5:34 PM

Submitted by:

Neil A. McCord

WG Chair, C37.016

Standard for AC High Voltage Circuit Switchers Rated 15.5 kV

Notes from the Wednesday HVCB Committee meeting:

All HVCB working groups were instructed to work toward securing ANSI accreditation. Based on this instruction we will have to change some of the plans discussed in the working group meeting. The chairman will be sending a communication to the group with suggestions on how we proceed. This will be followed by a Webex meeting in May or June with the voting members to establish a consensus for a new plan to meet the request from HVCB.

**IEEE PES Switchgear Committee
HVCB C37.016 - Meeting Roster**

Place / Date of meeting: The Westin, Ft. Lauderdale, FL / April 01, 2024

Initial to denote attendance	Last name	First name	Company name	Role	Request Membership
	Allingham	Edward	Hydro One	Guest	
	Andreyo	Joe	Southern States	Guest	
	Antantis	Michelle	Duquesne Light Co.	Guest	MSA
APB	Ashtekar	Koustubh	JST Power Eq	Guest	
	Beckel	Andy	Xcel Energy	Member	
	Benedict	Dan	PPL	Guest	
	Benge	Jonathan	Oklahoma Gas & Electric	Guest	
	Berner	Brian	Power Grid Comp.	Guest	
	Bolar	Sankay	Oncor	Member	
	Bray	Elizabeth	Southern Company	Guest	
	Bryant	Craig	Duke Energy	Guest	
	Bui	Ngoc	SDG&E	Guest	
	Byreddy	Sudarshan	Burns & McDonnell	Vice-Chair	
	Cary	Stephen	2 Phase Solutions	Guest	
	Castillo	Pedro	ABB	Guest	
	Chovanec	Andrew	GEW POWER GRID COMPONENTS	Member	ALC
	Collette	Lucas	Duquesne Light Co.	Secretary	
	Cunningham	Jason	Southern States	Guest	92
	Diallo	Boubacar	Southern States	Guest	
	Dilillo	Pat	Con Ed	Member	
	Dragan	Tabakovic	Hubbell	Guest	
	Eastman	Maxwell	Black & Veatch	Guest	
	Falkingham	Leslie	VIL & S&C	Guest	
	Fennell	Bruce	Nashville Electric Services	Guest	
	French	Chris	Beta Engineering	Guest	
	Gonzalez	Mauricio	Avangrid	Guest	
	Guidry	Sean	Omicron Electronics	Guest	
	Hanna	Robert	JST Power Eq	Guest	
	Hermosillo	Victor	GE Grid Solutions	Guest	
	Hurst	Bill	GE Grid Solutions	Guest	
	Hutchins	Neil	Georgia Power	Guest	
	Irwin	Todd	GE Grid Solutions	Member	
	Jagadeesan	Bharat	Southern States	Guest	
	Jamal	Shah	Avangrid	Guest	
	Jarnigan	Chris	Southern Company Services	Member	CRD
	Jensen	Darin	Southern States	Guest	
	Jordan	Jeff	Southern States	Guest	
	Kechroud	Riyad	GE Grid Solutions	Guest	
	Keels	Andy	KE Electric	Member	
LL	Lopez	Leo	WIKA	Guest	
	Ma	Chunming	Burns & McDonnell	Guest	CMIA
	Mapp	Peter	GE	Guest	
PM	Marshall	Vincent	Southern Company	Member	MM
	Marzec	Pete	S&C Electric Co.	Member	
	May	Steve	Southern Company	Member	
	McCord	Neil	KEC Precision LLC	Chair	
	Meyer	Peter	S&C Electric Co	Guest	
	Mihretu	Feven	PG&E	Guest	
	Miller	Anne	TCI	Guest	
	Mitchell	David	Southern States	Member	SKM
	Monroe	Andrew	Southern Company	Guest	
	Montoya	Stephanie	MKI	Guest	
FJO	Ordein	Fernando	Dominion Energy	Member	
	Owen	John	Powertech Labs	Guest	
	Palazzo	Mirko	Hitachi Energy	Guest	
	Panos	Elias	PG&E	Guest	
	Pellerito	Tom	DTE Energy	Guest	
mcp	Peterson	Mark	Xcel Energy	Member	
	Polchinski	Craig	MEPPI	Guest	CHP
	Pounders	Isaac	Meiden	Guest	
	Rexroad	Aaron	Meiden	Guest	
	Richter	Frank	50 Hz Transmission	Guest	
	Roberts	Brian	Southern States	Member	BOK
	Rowell	Amy	Schneider Electric	Guest	
	Santulli	Jen	IEEE SA	Guest	

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	Savulyak	Victor	KEMA	Guest	Member V.S.
DS	Schiffbauer	Dan	Toshiba International	Member	
	Schuetz	Carl	ATC	Member	C. Schuetz
	Scott	Jeff	Ameren	Guest	
	Skidmore	Mike	AEP	Guest	MKS
	Smith	Kirk	Retired	Guest	RKS
	Steigerwalt	Don	Duke Energy	Guest	
JHAJCI	Tarleton	John	Southern States	Guest	JCT
	Toups	Vernon	Siemens Energy	Member	
JU	Trichon	Francois	Schneider Electric	Member	TS
	Usner	Joe	AEP	Guest	
	Voyles	Adam	Ameren	Member	
	Ward	Jeff	Doble Engineering	Guest	
	Webb	John	ABB	Guest	
	Weeks	Casey	Siemens Energy	Member	CW
	Weisker	Jan	Siemens Energy	Member	JW
	Westerdale	Matt	Bureau of Reclamation	Guest	
LYW	Yongwoo Lee	Lee Yongwoo	KERI	Guest	
	Young	Marcus	MEPPI	Guest	
	Yunseorg	Kim	KERI	Guest	
	Zhang	Wei	Southern Company	Guest	
	Zia	Danish	UI Solutions	Guest	
	SHARMA	Dipak	Retired	Guest	DS
	Liu	Linda	Sieman Electric	Guest	
	MELWIS	Graeg	Southern States	Guest	GM
	Rogers	John	Siemens Energy		JR
	Bryant	Craig	Duke Energy	Member	CB
DCK	Krause	Dwight	Black + Veatch	Guest	Yes
GKB	Balsubramanian	Ganesh	Eaton Corp	Guest	Yes ✓
SB	Pari Kh	Sharan	Duke Energy	Guest	Yes
ZB	Baecher	Zachary	Southern States	Guest	Yes
BS	SAX	Benjamin	Nashville Electric Service	Member	
LD	DAZ	LISSY	Florida Power & Light	Guest	Yes