

Minutes of Meeting
Working Group C37.015 Guide for the Application of Shunt Reactor Switching

Location: Wyndham Grand Orlando Resort Bonnet Creek (Orlando, Florida)

Date: Wednesday April 9th 2025 (08:00-9:45 AM EDT)

Participants: 63 Total in Attendance (28 of 45 Members - 62%)

WG Chair: Mike Crawford

WG Secretary: Luke Collette

Call to Order

WG Chair called the meeting to order and presided over the WG meeting.

Introduction of Attendees

Roster attained through Microsoft Teams chat/attendee list. 63 Total in Attendance (28 of 45 Members - 62%). Quorum met.

IEEE Copyright Policy and Call for Patents

Patent and copyright policy presented. WG Chair made a call for any known essential patents. No Patent claims identified.

Approval of Agenda

WG Chair reviewed the agenda.

- Motion to Approve Agenda: Andy Keels
- 2nd to Motion: Craig Polchinski
- Approved by unanimous consent

Approval of Previous MOM (Fall 2024 & Virtual 2025)

WG Secretary reviewed the previous MOM.

- Motion to Approve both MOM: Andy Keels
- 2nd to Motion: Marcus Young
- Approved by unanimous consent

Review of Current Status

First draft of revision is completed and ready for review of the WG.

Review Changes Included in Draft Revision

WG reviewed the draft, and the following are key notes from the following discussion.

- WG Secretary presented draft
- Skipped editorial items, and moved to technical items
 - Section 2.2 Frequencies:

- Recommendation of wording to be provided by Andy Keels related to timing of naturally occurring current zeros
- Delayed current zero section (3.2.5.5)
 - Volunteer for additions (Urmil Parikh)
- Compensated lines and cables 3.2.5.5.1
 - Referencing C37.012 for section on compensated lines
 - No comments for the wording that was added
- 3.2.5.5.2 Fault near shunt reactors
 - Term 'Bolted Fault' to be defined = fault with negligent impedance
 - How close to current zero (current chop) before sending a trip signal; add statement to discuss with manufacturer for actual guidance
- 4. Limitation of Overvoltages table:
 - Added wording for experiences of using the mitigation techniques described in the table
 - Add better wording for determining solution as it depends on circuit breaker characteristics and the system.
 - Include another mitigation solution (surge suppressors across the circuit breaker)
 - Add disadvantage for external arresters across breaker noting they can fail and short CTs
 - Add mitigation solution of bypassing neutral reactor on cases grounded through a reactor
 - Controlled switching solution (Use 'unintentional re-ignition' wording)
 - Need to discuss with manufacturer to determine targeted points on wave
 - Change "minimum arcing time" to "sufficient (appropriate) reignition-free window"
 - Add comments to TRV control caps (L-G surge capacitor) that they are often used for the case with an internal shunt reactor fault
- A.1A.1 Table Chopping Number
 - Vacuum breakers typically have a chopping current, not a chopping number
 - Added note to that effect
- Add Note C of Annex E to mitigation table
- Table B.2 should be sorted high voltage to low voltage, check that all tables are consistent
- Add 'gapped core' to oil filled reactor references in Annex B and maybe elsewhere
- Extend an invite to David Caverly for review of this draft
- Annex C system characteristics harmonized with C37.011
- Annex D no significant change
- Annex E no significant change
- Annex F no significant change
- Annex G: New annex for study guidance
 - This was a large portion of the additions to the draft

- Craig Polchinski presented draft additions
 - Possibly add example for neutral reactor
 - Add note to section for chopping number versus arcing time
 - Add consideration for frequency of TRV
 - Craig Polchinski and Jan Weisker to work on additional plots for clarification
 - Guidance to be provided on simulation difference oscillation modes during a reignition.
 - Add a note for parallel capacitance (grading caps). Provide guidance on typical values if possible.
 - Does the annex need to add 'example' to plots?
 - Add guidance on selecting capacitance and how to modify measured capacitance values (i.e., from 60 Hz tests) to be applicable for studies at the appropriate TRV frequency.
- Move definitions, symbols, abbreviations to beginning of document per IEEE Standards Manual

Plan Moving Forward

WG reviewed the following plan:

- **Review Changes Included in Draft Revision**
 - Due Date: Spring In-Person Meeting: April 9th 2025
- **WG Completes Review of Draft and Provides Comments for Discussion**
 - Due Date: Spring In-Person Meeting: June 30th 2025
- **Review Changes Included in 2nd Draft Revision**
 - Due Date: Fall In-Person Meeting: October 2025
- **WG Vote to Request Approval from Standards Committee to Initiate SA Ballot Process**
 - Due Date: Fall In-Person Meeting: October 2025

Next Meeting

The following meetings are planned:

- Summer 2025: Virtual at end of July (to be scheduled)
- Fall 2025: October 5-9, Peppermill Resort, Reno, NV

Adjournment

Meeting adjourned by the WG Chair at 9:45 AM (EDT).

Reported by:

Luke Collette

WG Secretary

&

Mike Crawford

WG Chair

28 members

IEEE PES Switchgear Committee
HVCB C37.015 - Meeting Roster

Place / Date of meeting: Wyndham Grand Orlando Resort Bonnet Creek, Orlando, FL, 4/9/2025

Initial to denote attendance	Last name	First name	Company name	Role	Request Membership
	Antantis	Michelle	Duquesne Light Co.	Voting Member	
	Aristizabal	Mauricio	Hitachi Energy	Non-Voting Member	
	Banda	Eloy	Siemens Energy	Non-Voting Member	
	Beckel	Andy	Xcel Enegy	Voting Member	
	Beecher	Zachary	Power Grid Components	Non-Voting Member	
DHB	Benedict	Dan	PPL	Voting Member	
	Benge	Jonathan	OG&E	Non-Voting Member	
	Berner	Brian	Power Grid Components	Non-Voting Member	
SB	Belar SHEP	Sanket	Oncor	Voting Member	
AB	Bornuat	Albane	GE Grid Solutions VERNOVA	Non-Voting Member	
	Brogdon	Jeff	Georgia Transmission	Voting Member	
	Bronsveld	Arjan	Hitachi Energy Sweden	Voting Member	
	Brooks	Adam	Duke Energy	Non-Voting Member	
AB	Bufl	Arben	Meiden America Switchgear	Voting Member	
SIB	Byreddy	Sudarshan	Burns & McDonnel	Voting Member	
	Chovanec	Andrew	Power Grid Components	Voting Member	
AK	Christian	Michael	ABB	Voting Member	
	Collette	Lucas	Duquesne Light Co.	Secretary	
WJH	Crawford	Mike	Mitsubishi Electric Power Products, Inc	Chair	
	Cunningham	Jason	Southern States	Voting Member	
	Cuppett	Matthew	Hitachi Energy	Voting Member	
	Diaz	Lissy	Florida Power & Light	Voting Member	
	Eastman	Maxwell	Black & Veatch	Non-Voting Member	
	Hermosillo	Victor	GE Grid Solutions	Voting Member	
HJH	Hirz	Harry	Vesco	Non-Voting Member	
	Irwin	Todd	GE Grid Solutions	Non-Voting Member	
CJ	Jarnigan	Chris	Southern Company	Non-Voting Member	
AK	Keels	Andy	kEElectric Engineering	Voting Member	
	Kurinko	Carl	Hitachi Energy	Voting Member	
	Lakshminaray	Ramaprasad	Doble Engineering	Non-Voting Member	
	Lebrun	Mathieu	Vizimax	Non-Voting Member	
	Lopez	Leo	Wika	Non-Voting Member	
CM	Ma	Chunming	Burns & McDonnel	Voting Member	
VM	Marshall	Vincent	Southern Company	Voting Member	
	Marzec	Pete	S&C Electric	Non-Voting Member	
	Masterson	Paul	Meiden America Switchgear	Voting Member	
	May	Steven	Southern Company	Voting Member	
9:27	McCord	Neil	KEC Precision	Non-Voting Member	
	Meekins	Gary	Southern States	Voting Member	
A	Nenning	Andreas	Omicron Electronics	Voting Member	
	Nolte	Michael	Kiewit	Non-Voting Member	
	Ordein	Fernando	Dominion Energy	Voting Member	
	Orosz	Miklos	CBT&S LLC	Non-Voting Member	
MP	Palazzo	Mirko	Hitachi Energy	Non-Voting Member	Y
	Peterson	Mark	Xcel Enegy	Voting Member	
	Pingle	Sachin	ABB	Non-Voting Member	
	Podgorski	Damian	Sargent & Lundy	Voting Member	

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	Ratmiroff	Javier	GE Grid Solutions	Voting Member	
	Rebovich	Justin	GE Grid Solutions	Non-Voting Member	
	Roberts	Brian	Southern States	Non-Voting Member	
	Rogers	Jon	Siemens Energy	Voting Member	
ES	Schiffbauer	Dan	Toshiba International Corp	Voting Member	
	Schuetz	Carl	ATC EXCUSED	Voting Member	
	Schwartz	Skyler	ATC	Non-Voting Member	
JTS	Scott	Jeff	Ameren	Non-Voting Member	
	Shirode	Aniket	ABB	Voting Member	
ML	Skidmore	Michael	AEP	Voting Member	
	Sneath	Jeremy	Electranix Corp	Voting Member	
	Steigerwalt	Don	Duke Energy	Non-Voting Member	
	Tarleton	John	Southern States	Voting Member	
	Tillery	Tim	Howard Industries	Non-Voting Member	
	Toups	Vernon	Siemens Energy	Voting Member	
	Webb	John	ABB	Voting Member	
	Weeks	Casey	Siemens Energy	Voting Member	
	Weisker	Jan	Siemens Energy	Voting Member	
	Wen	Jerry	BC Hydro	Voting Member	
MY	York	Rich	Mitsubishi Electric Power Products, Inc	Voting Member	
MY	Young	Marcus	Mitsubishi Electric Power Products, Inc	Voting Member	
	Youssef	Mina	Eaton	Voting Member	
	Zaharko	Sam	Mitsubishi Electric Power Products, Inc	Voting Member	
	Parikh	Urmil	Hitachi Energy	Non-Voting Member	
MA	ARISTARBE	MAURICIO	HITACHI ENERGY		
APB	BORNAT	Albane	GE VERNOVA		
MV	VITTOZ	Marc	GE VERNOVA	N.V.	
JS	Sell	Jason	Switchgear Power Systems	NV	
TEK	Kaminski	John	Siemens Industry		
DAR	D'Amico	Benjamin	HICO America	NV	
NR	Sheehan	Paul	HICO America	NV	
DS	Sullivan	Dustin	Hubbell	Guest	
SY	Ju	Seyoung	HICO America	Guest.	
AN	Natale	Anthony	HICO America	Guest	
NLP	Hanna	Nathan	GE VERNOVA	NV NV	
VS	BALVET	VINCENT	VIZIAX	NV NV	

**IEEE PES Switchgear Committee
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JB	Brogdon	Jeff	Georgia Transmission	Voting Member	47
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ALL	Byreddy	Sudarshan	Burns & McDonnel	Voting Member	
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JR	Rebovich	Justin	GE Grid Solutions	Non-Voting Member	Yes
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	Rogers	Jon	Siemens Energy	Voting Member	
	Schiffbauer	Dan	Toshiba International Corp	Voting Member	
	Schuetz	Carl	ATC	Voting Member	
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	Shirode	Aniket	ABB	Voting Member	
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	Webb	John	ABB	Voting Member	
	Weeks	Casey	Siemens Energy	Voting Member	
JL	Weisker	Jan	Siemens Energy	Voting Member	
	Wen	Jerry	BC Hydro	Voting Member	
Reg	York	Rich	Mitsubishi Electric Power Products, Inc	Voting Member	
	Young	Marcus	Mitsubishi Electric Power Products, Inc	Voting Member	
	Youssef	Mina	Eaton	Voting Member	
SLZ	Zaharko	Sam	Mitsubishi Electric Power Products, Inc	Voting Member	
	Parikh	Urmil	Hitachi Energy	Non-Voting Member	
	Sharma				
	GUAN	RONG	PG&E		
	SHARMA	DEREK	Relined	N-V	
DU	Wolfe	DAN	Pennsylvania Switchgear		
KA	HUGHES	DEREK	GEORGIA TRANSMISSION	N-V	
JO	Jo	Sungtae	KERI		
LYW	Lee	Yongwoo	KERI		
MRE	Eastman	Maxwell	Black & Veatch	N-V	
	LYU	SungHwan	Federal Pacific		
JST	Jur	Arthur	Electro-Mechanical	N-V	
PA	PARIKH	URMIL	Hitachi Energy Sweden AB	N-V	
CS	Dunn	Chris	Dominion Energy	NV	
JA	Josh	Szemore	Wika	NV	No
mm	Collette	Dave	Mitsubishi Electric	NV	No
AKM	Miller	Anne	TCI	NV	no



Working Group

C37.015
Guide for the Application of Shunt Reactor Switching

Chair: Mike Crawford; Secretary: Lucas Collette

April 9, 2025

Agenda

- Call to Order
- Introduction of Attendees
 - Sign-in Sheet
- Review of Patent and Copyright Slides
 - Call for patents
- Membership List
- Approval of Agenda
- Approval of Previous MOMs
- Current Status
- Review Changes Included in Draft Revision
- Plan Moving Forward
- Next Meeting
- Adjournment

IEEE SA Copyright Policy

IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

IEEE SA Copyright Policy

IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
 - IEEE SA Copyright Policy, see
 - Clause 7 of the IEEE SA Standards Board Bylaws
<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>
 - Clause 6.1 of the IEEE SA Standards Board Operations Manual
<https://standards.ieee.org/about/policies/opman/sect6.html>
- IEEE SA Copyright Permission
 - <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>
- IEEE SA Copyright FAQs
 - <http://standards.ieee.org/faqs/copyrights.html/>
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
 - <https://standards.ieee.org/about/policies/opman/sect6.html>

IEEE SA Patent Slides

PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

IEEE SA Patent Slides

WAYS TO INFORM IEEE

- Cause an LOA to be submitted to the IEEE SA (patcom@ieee.org); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or

- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

OTHER GUIDELINES FOR IEEE WORKING GROUP MEETINGS

- All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus.
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.

For more details, see *IEEE SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

IEEE SA Patent Slides

PATENT-RELATED INFORMATION

The patent policy and the procedures used to execute that policy are documented in the:

- *IEEE SA Standards Board Bylaws*
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- *IEEE SA Standards Board Operations Manual*
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE SA
Standards Board Patent Committee
Administrator at patcom@ieee.org**

Voting Members (45)

- Michelle Antantis
- Andy Beckel
- Dan Benedict
- Sanket Bolar
- Jeff Brogdon
- Arjan Bronsveld
- Arben Bufi
- Sudarshan Byreddy
- Andrew Chovanec
- Michael Christian
- Lucas Collette
- Mike Crawford
- Jason Cunningham
- Matthew Cuppett
- Lissy Diaz
- Victor Hermosillo
- Andy Keels
- Carl Kurinko
- Chunming Ma
- Vincent Marshall
- Paul Masterson
- Steven May
- Gary Meekins
- Andreas Nenning
- Fernando Ordein
- Mark Peterson
- Damian Podgorski
- Craig Polchinski
- Javier Ratmiroff
- Jon Rogers
- Dan Schiffbauer
- Carl Schuetz
- Aniket Shirode
- Michael Skidmore
- Jeremy Sneath
- John Tarleton
- Vernon Toups
- John Webb
- Casey Weeks
- Jan Weisker
- Jerry Wen
- Rich York
- Marcus Young
- Mina Youssef
- Sam Zaharko

WG Voting

- Approval of Agenda
- Approval of Previous MOM
 - [Fall 2024](#)
 - [Virtual 2025](#)

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- Adjournment

Current Status

PAR Approved

- Link to [PAR](#)

First draft of document revision is completed and ready for review of the WG.

Review Changes Included in Draft Revision

First Draft - [PC37.015 d1](#)

Items to be addressed based on previous WG meetings:

- Study Guidance for Reactor Switching (Annex)
- Clause 4 Limitation of Overvoltages (Mediation Table 1)
- Survey of In Service Experience
- Delayed Current Zero
- Chopping Current for VCB
- Shunt Reactor Capacitance
- Restrike or Reignition Monitoring
- General Review of Document

Plan Moving Forward

- **Review Changes Included in Draft Revision**
 - Due Date: Spring In-Person Meeting: April 9th 2025
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Next Meeting

- Next Virtual Meeting
 - Date: July End, 2025 (10AM EST? Doodle to pick date/time)
- Next In-Person Meeting
 - Fall 2025: October 5-9, Peppermill Resort, Reno, NV

Adjourn