

IEEE C37.20.7, Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults

Meeting Minutes

Meeting Date: 19 October 2022
Meeting Time: Session #1: 8:00 AM – 9:45 AM
Session #2: 10:15 A PM – Noon
Location: Hilton Burlington Lake Champlain, Burlington, VT

A. Call to order

The meeting of the IEEE C37.20.7 Working Group was called to order at 8:00am am by Dan Hrcir.

B. Introductions/Attendance

Introductions were made of all attendees. Attendees are listed below. Quorum was confirmed with 31 of 54 members present, 28 guests, and a total of 69 attendees. Garrett Sims of Eaton is filling in as secretary since Paul Sullivan could not attend.

<u>Role</u>	<u>First Name</u>	<u>Last Name</u>	<u>Company</u>
Guest	Samuel	Andris	KEMA Labs
Guest	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)
Guest	Herman	Bannink	G&W Electric
Member	Paul	Barnhart	Underwriters Laboratories
Member	Francis	Beauchemin	Hydro-Quebec
Member	David	Beseda	S&C
Member	Russell	Boyce	Eaton
Guest	Craig	Bryant	Duke Energy
Member	Robert	Burns	Eaton
Member	Ted	Burse	Powell Industries, Inc
Guest	Sudarshan	Byreddy	Burns & McDonnell
Member	Clint	Carne	Schneider Electric
Member	Robert (Bob)	Cohn	Powercon Corp.
Guest	Fiori	Coziuc	S&C
Member	Randall	Creach	AZZ Switchgear Systems
Member	Federico	Di Michele	CESI S.p.A.
Guest	Erik	Doroz	Eaton
Member	Sergio	Flores	Schneider Electric Inc. USA
Member	Sahadev	Gohil	AZZ Switchgear Systems
Member	Lou	Grahor	Eaton Corporation
Guest	Erin	Hardy	Eaton
Member	Jack	Harley	First Power Group
Member	Ronald	Hartzel	Eaton Corporation
Member	Tom	Hawkins	Siemens Industry, Inc.
Member	Jared	Hines	Eaton Corp.
Member	Jason	Hollander	CHA Consulting, Inc.
Guest	Sangtae (Brandon)	Kim	HICO

IEEE C37.20.7, Guide for Testing Switchgear Rated Up to 52 kV for Internal Arcing Faults

Meeting Minutes

Member	Michael	Lafond	ABB
Guest	Robert	Lau	nVent Hoffman
Guest	Dakota	Leopard	Eaton
Guest	Adrian	Lopez	Powell
Guest	Kevin	McGlown	JST Power Equipment
Guest	Ken	McKinney	UL
Member	Darryl	Moser	ABB
Guest	Anthony	Natale	HICO
Member	Terry	Neighbours	ABB Inc.
Guest	Mike	Oroz	CBT&S Consultant
Guest	Sumitabha	Pal	Schneider Electric
Member	Owen	Parks	ABB
Guest	Chirag	Patel	Powell
Member	Paul	Rakus	Eaton
Guest	Aaron	Rexroad	Meiden America
Member	Jeffery	Ricker	SCHNEIDER ELECTRIC
Member	Mark	Roberson	AZZ/Calvert
Guest	Wahaj	Saleem	Siemens
Guest	Jen	Santull	IEEE SA
Member	Todd	Sauve	Rockwell Automation
Guest	Victor	Savulyak	DNV GL KEMA Laboratory
Member	Garett	Sims	Eaton Corp.
Guest	Lokesh	Solanki	ABB
Guest	Christo	Thomas	Schneider Electric
Guest	Truett	Thompson	Siemens
Member	Marcelo	Valdes	ABB
Member	Michael	Wactor	Powell Industries, Inc
Guest	Jacob	Walgenbach	Siemens
Guest	Jonathan	Wear	JST Power Equipment
Guest	Eddie	Wilkie	Eaton
Member	Terry	Woodyard	Siemens Industry Inc.
Member	Mina	Youssef	Eaton Corporation

C. Approval of agenda

The proposed meeting agenda was reviewed. Motion to approve the agenda was made by Mike Lafond and seconded by Marcelo Valdes. The proposed meeting agenda was approved by unanimous consent.

D. Approval of February 2022 Meeting Minutes

Draft minutes of the Spring 2022 working group meeting were discussed. Motion to approve the minutes was made by Marcelo Valdes and seconded by Ron Hartzel. The meeting minutes were approved by unanimous consent.

Meeting Minutes

E. Rules and guidelines for conducting working group meetings

The IEEE Patent Policy and Business Conduct Policy were presented by the Chair and reviewed by the attendees. The information is available at the following website:

<https://mentor.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

A call for patents was made by the Chair. No declarations were made known during the meeting.

The IEEE SA Copyright Policy was presented by the Chair and reviewed by the attendees. The information is available at the following website:

<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>

F. Old business

- None.

G. New business

- Recommendations from each of the three working groups task forces were reviewed and discussed.
 - Labeling for Equipment with Separately Mounted Protection, Chair: Todd Sauve
 - Address adjustable settings on MCCB's
 - Nothing currently in the guide for settings
 - Proposal to add 6.2.1 and additional wording in 6.3
 - Suggested change regarding testing each setting "we should only need to test worst case" - Lafond
 - Confused as to which nameplate user should refer to - Valdes
 - Equipment nameplate should refer user to device nameplate - Wactor
 - Agreed upon language from TF proposal and follow up discussion during meeting will be included in D4A of the document
 - Equipment Installed Over Vaults, Chair: Garrett Sims, "Low Voltage" Compartment, Chair: Ted Burse
 - Agreed upon language from TF proposal and follow up discussion during meeting will be included in D4A of the document
 - Criteria 1 and Equipment Bowing, Chair: Michael Wactor
 - Considerations for dynamic bowing - is there a way to cover this in the document?
 - Considerations for covering wall-mounted equipment?
 - 100 mm distance originated from EEMAC standard
 - Agreed upon language from TF proposal and follow up discussion during meeting will be included in D4A of the document
- All three task forces were officially disbanded since their work was complete.
- Reviewed comments on draft 4 of the document
 - Addressing technical comment from Dave Gohil
 - Remove "P" from standard callout in annex L title
- Additional discussion points
 - Further discussion on task force for labelling of "Low Voltage" Compartments, Chair: Ted Burse
 - Initial proposal from TF was to "do nothing"

Meeting Minutes

- Suggestion to add labeling requirement specific to type 2B requirement in LV switchgear section, annex D, to clarify which doors can be open while maintaining arc-resistant rating - Lafond
- Why limit to LV switchgear (e.g. LVMCC)? - Hawkins
- Label on which panels can be open or which panels cannot be open? - Valdes
- Should this go in the overarching annex C, section C.2.2 of the document?
 - Draft D5 of the document will include an addition to this section with normative language regarding type 2B LV compartment doors allowed to be opened while maintaining arc-resistant rating
 - Mike Lafond to lead task force to create a supplemental informative note for label wording
- Table C.1
 - Should UL845 LVMCC and UL891 switchboards allow 2B rating?
 - 2B added to table for both product types
- Next steps
 - Finalize D4A of the document with TF proposals and changes per discussions during this meeting.
 - Distribute D4A of the document for comments to be returned by end November.
 - Virtual meeting of the working group by the end of January for D4A comment resolution.
 - Create D5 of the document and go to formal ballot prior to Spring 2023 meeting.
 - Create ballot pool in February 2023
 - Ballot D5 in March 2023

H. Adjourn

The meeting was adjourned at approximately 11 am.

*Minutes submitted by:
Paul Sullivan
Secretary
November 17, 2022*