

Meeting Minutes

Meeting Date: 20 April 2021
Meeting Time: 8 AM – 12 PM CDT
Location: Online Meeting

A. Call to order

The meeting of the IEEE C37.13 Working Group was called to order at 8:05 am CDT.

B. Approval of agenda

Version 1.0 of the proposed meeting agenda was approved by unanimous consent.

C. Approval of Fall 2020 Meeting Minutes

Version 1.0 of the Fall 2020 meeting minutes was approved by unanimous consent.

D. Attendance

Introductions were made of all attendees. Attendees are listed below.

Sixteen members and twelve guests were in attendance. Quorum was met. Attendance recorded in 123Signup.

Attendees:

Name	Company	Member/Guest
Keith Flowers	Siemens Industry, Inc.	Chair
Ted Burse	Powell Industries, Inc	Member
Clint Carne	Schneider Electric	Guest
Dan Delfino	ABB	Guest
Doug Edwards	Siemens Industry, Inc.	Member
Dave Gohil	AZZ	Guest
Lou Grahor	Eaton Corporation	Member
Dan Hrcir	Eaton	Member
Chad Kennedy	Schneider Electric	Guest
Michael Lafond	ABB	Member
James Lagree	Eaton	Member
Albert Livshitz	CE Power	Guest
Jeff Mizener	Siemens Industry, Inc.	Member
Darryl Moser	ABB	Member
Owen Parks	ABB	Member
Paul Rakus	Eaton	Member
Santosh Reddy	Powell Industries, Inc	Guest
Dean Sigmon	Eaton Corporation	Member
Kevin Sippel	Eaton Electric	Member
Paul Sullivan	DuPont	Guest
Donnie Swing	Powell Industries, Inc	Guest

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Christo Thomas	Schneider Electric	Guest
Dhirendra Tiwari	ABB	Guest
Marcelo Valdes	ABB	Member
Matt Westerdale	Bureau of Reclamation	Guest
Greg Wiese	Schneider Electric	Member
Danish Zia	UL LLC	Member

E. Rules and guidelines for conducting working group meetings

The IEEE Patent Policy and Business Conduct slides were reviewed. For reference, they may be found at the following website:

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

The Working Group also reviewed the IEEE Copyright Policy.

F. Working group P&Ps

The approved template for the Switchgear Committee is:

https://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_SWG_WG_PnP_Final_2019-03-19.pdf

G. Document status report

- PAR request date: 07 May 2019
- PAR approval date: 05 Sep 2019
- PAR expiration date: 31 Dec 2023

H. Old business

Maximum voltage (SCC 21 Coordination)

At the previous Working Group meeting, an ad hoc was formed to work with SCC21 to understand the underlying issues driving voltage tolerances in the IEEE Std 1547.x series broader than the ranges described in component standards and determine the recommended path forward. Due to COVID-19 and other coordination issues, the meeting of this ad hoc has not been set. Goal is to initiate this summer.

This ad hoc will consist of the following working group participants (plus SCC 21 participants):

Ted Burse	Lou Grahor	Marcelo Valdes
Clint Carne	Dan Hrcir	Danish Zia
Doug Edwards	Darryl Moser	
Keith Flowers	Kevin Sippel	

Drawout / Withdrawable / Removeable / Stationary / etc (and other related terms)

In reviewing the implementation of the interlocking requirements added to Clause 6, the Working Group engaged in a discussion of the use of terms such as “drawout,” “withdrawable,” “removeable,” “stationary,” and other related terms associated with circuit

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breaker integration within apparatus. Comparisons were made between this document, IEEE Std C37.20.10, and other switchgear assembly standards. The Working Group updated the terminology used within this document based on the definitions within IEEE Std C37.20.10. The Working Group will bring this up as a point of interest to the LVSD Subcommittee for further discussion.

NEMA C37.50 design testing requirements

The design test procedures from NEMA C37.50 have been integrated into new annexes A and B of this document, with only editorial type changes to correct cross-references. Working Group will review annexes A and B and supply comments for the next Working Group meeting.

IEEE Std C37.26

IEEE Std C37.26 has been integrated into new annex C of this document.

Harmonization of continuous current test requirements

The working group held a high level discussion about some of the differences in continuous current testing between C37.13 components versus the requirements for integration of those same components into C37.20.1 apparatus. An ad hoc was formed to make a recommendation on how to move forward.

This ad hoc will consist of the following working group participants (plus C37.20.1 working group participants):

Ted Burse	Lou Grahor	Albert Livshitz
Clint Carne	Tom Hawkins	Richard Rohr
Dan Delfino	Dan Hrcir	Kevin Sippel
Keith Flowers	Mike Lafond	Danish Zia

****update**:** Following the C37.20.1 working group meeting on April 20, 2020, the C37.20.1 working group added the two additional volunteers: Bryan Tatum and Eddie Wilkie.

1200 A frame size

Proposal has been made to include a 1200 A frame size as a preferred rating. A strawman proposal for performance test requirements has been integrated in Annex A. Working Group will review the proposed requirements, and comment for the next working group meeting.

EMC testing

Annex A pulls in EMC testing requirements from IEEE C37.90.1 and C37.90.2. The Working Group discussed an alternate solution of UL 489 Supplement SF and SG, which duplicates requirements from a legacy version of IEC 60947-2. An ad hoc was formed to make a recommendation on how to move forward.

This ad hoc will consist of the following working group participants:

Jim Lagree	Christo Thomas
Jeff Mizener	Danish Zia

Temperature limits

The working group will review how IEEE Std 1 (noted in Clause 7.3.2) impacts the temperature rise Clause 7, and submit comments for the next meeting.

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I. Next steps discussion

Draft 2 will be circulated to the working group and guests for comments to be considered at the next meeting.

J. Adjournment

The Working Group completed the agenda and adjourned the meeting at Noon CDT.

Minutes submitted by:
Keith Flowers
WG Chair
April 20, 2021