

C37.23 Metal-Enclosed Bus Working Group
Meeting Minutes (by Mark Roberson, Secretary)
04/20/21 (Tuesday), 10:15 AM CST
Online via Microsoft Teams

1. Call to Order

The meeting was called to order by Jared Hines, Chair at 10:15 AM (CDT)

2. Introductions and Attendance

Jared Hines introduced himself as the Chair and Mark Roberson as the Secretary for this Working Group (WG) and welcomed all members and guests. There were 26 total attendees (see end of this document for list) that were logged into the Teams Meeting. Each attendee confirmed their participation via verbal response from Mark as well as entering their name and affiliation via the Teams Chat window:

- 26 total people were in attendance
- 17 of 31 (54.8%) WG members participated, thus quorum was met
- 9 guests participated

3. Previous Meeting (Fall 2020) Minutes

Jared Hines presented the meeting minutes from the previous meeting held on October 6, 2020. Russell Boyce moved to approve by consent and Paul Barnhart seconded.

4. Meeting Agenda

Jared Hines presented/reviewed the meeting agenda. Ted Burse moved to approve by consent with Garrett Sims seconding.

5. IEEE Working Group Policies and Procedures/Copyright Policy/Patent Policy

Jared presented/reviewed the IEEE (SA) approved Working Group Policies and Procedures protocol, which can be found here: [http://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_WG_PP-Switchgear--approved-\(2013-09-19\).pdf](http://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_WG_PP-Switchgear--approved-(2013-09-19).pdf).

In addition, slides were reviewed that cover the IEEE-SA copyright and patent policies. Jared asked if there were any patent claims. ***No issues were voiced by the meeting attendees.***

6. Document Status Report

Jared Hines mentioned that the new C37.23 PAR, which was formally approved by NESCOM on September 23, 2020, expires on December 31, 2024.

7. Old Business

Jared reviewed the AdHocs that were formed during the last meeting and asked if the groups could get together by July 2021.

Cable Bus – Paul Sullivan will start and chair.

- Jared asked if anyone will not be able to participate. No one said that they could not.

Arc Resistance - Jared will chair

- Michael Wactor said he would like to join group since he was heavily involved in a similar switchgear standard
- Steve Powell asked to join group

8. New Business

Jared sent with the meeting notice a blank "Comments" file, however it was noted that a previous file was submitted by Dave Gohil with some comments added. Jared also sent a draft "C37.23" standard file for review.

Actions:

- Jared will combine Dave Gohil's comments from last meeting into a blank document file
- Jared asked members to use draft document and comments file to provide comments back by the end of July 2021.
- Jared/Mark will look into iMeet Central for easier access to documents (Russell Boyce offered to help, if needed).

Other Topics:

- References to C37.100.1 in C37.23: Do we need to eliminate all references to this standard similar to what is being done in other SA switchgear standards?
 - It was noted that C37.20.2 is ready to go out for the first ballot (probably in July) with the exception of the PD testing annex. There were changes to the rain test and secondary wiring (aligned with Adhoc and amendments from last year), but overall the goal was to make it generic to metal-clad switchgear.
 - One note made was that there was a major change in the conductor types used for the continuous current test so the C37.23 group would need to review carefully for alignment.
 - The latest draft of C37.20.2 was reviewed in the meeting for this subject; from past history of testing, a different type of conductor was being used and so it was decided to use IEC methodology where "you can use what you want" as long as it doesn't influence the test (this is described through temperature)...a suggestion was made to form an AdHoc group to make sure that this will work for C37.23?
 - Jared asked for a volunteer to do this, but no one volunteered so will keep it on the list as a future action item
 - Jared asked if it's OK to share the latest C37.20.2 (Draft 10B) with group?
 - A comment was made that SWGR documents can go anywhere with the SWGR group, and it's OK to utilize "excerpts" from that document. A member volunteered to will check with IEEE to make sure we have approval to proceed.
 - If approved, Draft 10B of that standard will be shared with our group so that we can review and it can be incorporated into our comments.
- 6.2.5 Weather-resistance tests: There are references to these tests both in C37.20.1 and 20.2. Should we change to an approach where we align with those standards?
 - It was noted that C37.20.2 and 20.3 are fairly completed, and so when they are officially released we can review for C37.23.
 - The C37.20.2 Draft 10B was shared online in the meeting and "Weather tests" are at Line 992...Words are almost identical to the 1999 version of C37.20.2.
 - It was noted that wording of common clauses was eliminated (similar to wording in the 1999 version) with some minor changes made. A "NOTE" was also added at the bottom of the section.

- A suggestion was made that we copy C37.20.2 wording but apply to specific bus terminology. Jared to add a comment in the comments file to address this.

9. Next Meeting

The next meeting will be tentatively be held in October 12, 2021. Further details of this planned meeting will be forthcoming before that date via email notification.

10. Adjournment

The meeting ended at 11:19 AM CST.

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Attendee List**

Attendees:	Name		Affiliation (if known)	Role
	First	Last		
1	Jared	Hines	(Chair) Eaton	Member
2	Mark	Roberson	(Vice Chair/Secretary) AZZ Bus Systems	Member
3	Benedict	Lavrinoff	Kinectrics Inc	Member
4	Chand	Taylor	Eaton	Member
5	Dave	Gohil	AZZ Switchgear Systems	Member
6	Jeff	Door	The H-J Family of Companies	Member
7	Louis	Doucet	STACE	Guest
8	Matthew	Claxton	Powell Industries	Member
9	Michael	Wactor	Powell Industries	Member
10	Monique	Boisvert-La Terreur	STACE	Member
11	Paul	Barnhart	Underwriters Laboratories	Member
12	Paul	Sullivan	DuPont	Member
13	Randy	Creach	AZZ Switchgear Systems	Member
14	Russell	Boyce	Eaton	Member
15	Paul	Gingrich	AZZ Switchgear Systems	Member
16	Steve	Powell	Electrical Builders, Inc. (EBI)	Member
17	Chris	French	Eaton	Guest
18	Garett	Sims	Eaton	Member
19	Francis	Beauchemin	Hydro-Quebec	Guest
20	Ted	Burse	Powell Industries, Inc	Member
21	Donnie	Swing	Powell Industries	Guest
22	Richard	Rohr	Powell Electrical Systems	Guest
23	Santosh	Reddy	Powell Industries	Guest
24	Gary	Haynes	ABB	Guest
25	Bryan	Tatum	UL	Guest
26	Mike	Miller	MDF Cable Systems	Guest