

C37.23 Metal-Enclosed Bus PAR Study Group
Meeting Minutes
05/05/20 (Tuesday), 3:45 PM CST
Online via WebEx

1. Call to Order

The meeting was called to order by Jared Hines (PAR Group Study Chair) at 3:45 PM

2. Introductions

Jared Hines introduced himself as the new Chair and Mark Roberson as the Secretary for this PAR Study Group, which is expected to become a Working Group (WG) after PAR approval.

3. Minutes from last meeting

First meeting so no previous minutes exist

4. Meeting Agenda

Chair presented/reviewed the meeting agenda.

5. Attendance

All attendees that were logged into the WebEx are shown at the end of this document. Per SC leadership, we can overlook affiliations for this meeting since it is online.

6. SA Copyright Policy

Presented/reviewed the Switchgear Assemblies (SA) copyright policy. The IEEE SA Copyright Policy is defined in Clause 7 of the IEEE SA Standards Board Bylaws (<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>) and its implementation is defined in Subclause 6.1 of the IEEE SA Standards Board Operations Manual (<https://standards.ieee.org/about/policies/opman/sect6.html>)

No issues were voiced by the meeting attendees

7. SA Patent Policy

Presented/reviewed the SA patent policy, which can be found at:
<https://mentor.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

No issues were voiced by the meeting attendees

8. New Business

- a. C37.23-2015 is current version – do not have PAR submitted for next revision
 - Current standard will expire December 31, 2025

- b. In the Fall 2019 SA meeting, a proposal was submitted as to whether include the **IEC USNC 17C 62271-216** standard (currently in development) as part of the new WG for C37.23. Referenced meeting minutes were reviewed to confirm direction for this SG.
 - Noted that we should make IEC aware that we are starting activity on C37.23 and invite them to participate. However, we do not want a joint commission.
 - i. We can also establish this communication with the IEC group while working on the PAR – Ashley Moran to help support the IEC contact effort
 - Other questions:

- i. Should we change the C37.23 scope to reflect differences?
- ii. Does C37.23 need to raise voltage level to 52kV? (Discussed later in PAR Development section)
- iii. Is busbar “trunking” a different version of bus than C37.23?
 1. UL regularly certifies the IEC 62271 standard. A number of countries want IEEE standards, but IEC has their version for their interests.
 2. Also, even though the IEC standard states that it is for busbar “trunking” systems, it still states that it is “metal-enclosed” so it would be similar to C37.23 versions. The IEC Table of Contents also confirms that the three major types of ME bus are included.
- Eldridge Byron will send statement to C37.23 group for review before sending official letter to IEC

c. C37.23 PAR Development

- Deadline to submit PAR to NESCOM is August 14, 2020

PAR sections:

- **Scope:** reviewed existing C37.23-2015 for possible changes. After much discussion, it was finalized as follows (changes shown as ~~strike through~~/**highlight**):

*This standard covers assemblies of metal-enclosed (ME) conductors along with associated interconnections, enclosures, and supporting structures. The types of assemblies covered are nonsegregated-phase bus, segregated-phase bus, isolated-phase bus, and cable bus. When switches and disconnecting links are included, they shall conform to this standard. This standard encompasses the performance characteristics of indoor and outdoor conductor assemblies with rated maximum operating voltages through ~~38~~ **52 kV**. This standard does not pertain to **assemblies that use gas other than air or use any pressure system to achieve dielectric performance**. This standard also does not pertain to UL 857 [B22] type busways and associated fittings.*

Service conditions, ratings, temperature limitations, and classification of insulating materials, insulation (dielectric) withstand voltage requirements, test procedures, and applications are established.

A guide for calculating losses in isolated-phase bus is included.

- **Purpose:** reviewed existing C37.23-2015 for possible changes. After some discussion, no changes were made.
- **Need for Project:** added wording to update operating voltage to 52 kV to align with other standards as well as excluding previous points.
- **Expected Dates of Completion:**
 1. Draft submission to IEEE SA (per Doug Edwards should be one year prior to expiration = October 2023)
 2. Draft submission to IEEE RevCom = October 2024
- The above items will be submitted by Jared Hines to SA Subcommittee for approval

9. Adjournment

The meeting ended at 5:35 PM CST.

Minutes reported by: Mark Roberson, secretary

Attendees:

	Name		Affiliation (if known)	Role
	First	Last		
1	Jared	Hines	Eaton	Chair
2	Mark	Roberson	AZZ Bus Systems	Secretary
3	Ana	Cardona	BC Hydro	Member
4	Ashley	Moran	IEEE	Member
5	Benedict	Lavrinoff	Kinectrics Inc	Member
6	Bob	Cohn	Powercon Corp.	Member
7	Chand	Tailor	Eaton	Member
8	Danish	Zia		Member
9	Dave	Gohil	AZZ	Member
10	Doug	Edwards	Siemens	Member
11	Ed	Peters		Member
12	Eldridge	Byron	Schneider Electric	Member
13	Jeff	Door	HJ	Member
14	Jim	Bredberg		Member
15	Justin	Colletta	Powell Industries	Member
16	Louis	Doucet		Member
17	Matthew	Claxton	Powell Industries	Member
18	Michael	Wactor	Powell Industries	Member
19	Monique	La Terreur		Member
20	Paul	Barnhart	UL	Member
21	Paul	Sullivan	DuPont	Member
22	Randy	Creach	AZZ Switchgear Systems	Member
23	Russell	Boyce	Eaton	Member
24	Tom	Hawkins	Siemens	Member
25	Darryl	Moser	ABB	Member
26	Paul	Gingrich	AZZ Switchgear Systems	Member