

C37.23 Metal Enclosed Bus Working Group
 Minutes of the Spring 2014 Meeting
 The Disney Contemporary Resort, Orlando, FL USA
 May 7, 2014

1. Introductions

The meeting was called to order by the Chair, Art Jur at 8:02 AM. Art welcomed the members and guests. Attendees introduced themselves identifying their company and affiliation.

2. Attendance

Present at the meeting were nineteen Working Group members and thirteen guests. One member was excused from attendance. There are twenty eight WG members currently on the roster. Quorum was met.

<u>Name</u>	<u>Affiliation</u>	<u>Role</u>
Russell Boyce	Eaton	Member
Ted Burse	Powell Industries, Inc	Member
Jon Campbell	Powell Industries	Guest
Robert Cohn	Powercon Corp.	Member
Doug Edwards	Siemens Industry, Inc.	Member
Michael Flack	Southern Company Generation	Member
Michel Gaspard	ETA-COM	Guest
Paul Gingrich	AZZ / Central Electric	Member
Sahadev Gohil	AZZ/Central Electric Mfg. Co.	Member
Bruce Hack	Crown Electric Engineering & Manufacturing	Guest
Tom Hawkins	Siemens Industry	Vice-Chair
Arthur Jur	Eaton Corporation	Chair
Jayali Kasige	General Switchgear & Controls Ltd.	Guest
Michael Lafond	General Electric	Guest
Frank Mayle	Technibus, Inc.	Member
John McClelland	Technibus	Guest
Mike Miller	MDF Cablebus Systems	Guest
T Olsen	Siemens Industry, Inc.	Member
Amit Patel	GE	Member
Jayant Patel	Crown Electric Engineering & Manufacturing	Guest
Edward Peters*	Powell Elect. Sys. - Delta/Unibus Div.	Member* Excused absence
Steve Powell	AZZ/Calvert	Member
Samala Santosh Reddy	Powell Industries	Member
Mark Roberson	AZZ/Calvert	Member
Richard Rohr	Powell Electrical Systems	Guest
Amy Rowell	Eaton	Guest
Barry Schuster	MDF Cablebus Systems	Guest
Erin Spiewak	IEEE	Guest
Paul Sullivan	DuPont	Member
Chand Tailor	Eaton Corporation	Member
Jey Thayalan	Schneider Electric	Guest
Robert Warren	KEMA Powertest	Member

3. Approval of the meeting minutes from Fall 2013

3.1 Meeting minutes were previously distributed

3.2 No comments were made

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- 3.3 Minutes approved unanimously
- 4. Approval of the agenda
 - 4.1 Agenda was previously distributed and shown during the meeting
 - 4.2 No comments were made
 - 4.3 Agenda approved unanimously
- 5. Old Business
 - 5.1 Practicality of the single phase DC connection requirements: Ted Burse had questioned this in past meeting and Ted will offer comments for consideration.
 - 5.2 Attempt to segregate/reconcile LV test requirements and procedures from the MV test requirements and procedures: Ted Burse presented his efforts. A Study Group consisting of Ted Burse, Ted Olsen, Chand Tailor and Bruce Hack was formed with a scope to implement this work into the draft within 3 weeks of this meeting.
 - 5.3 Air Pressurized Bus: John McClelland presented his efforts. Much discussion about dual ratings of Air Pressurized bus. A Study Group consisting of John McClelland, Frank Mayle, Michel Gaspard and Jay Patel was formed with a scope to implement this work into the draft by the end of July.
 - 5.4 Insulation Testing requirements from C37.20.2: consensus was that we should harmonize with C37.20.2 draft by removing specific clause references. When necessary, C37.23 will refer to C37.20.2 for insulation testing requirements.
 - 5.5 UL 857 Busway - status of NEMA and STP groups: Art Jur reported no actions have been taken by the NEMA group.
 - 5.6 Neutral Connection, Requirements above 1000 V: Chand Tailor reported that he found no requirements in the connected equipment standards. Chand suggested that nothing needs to be included in draft. WG consensus agreement.
 - 5.7 Update on definitions from C37.100: Ted Olsen reported that the Switchgear Assemblies Sub Committee has chosen to create SA definitions, but no work has been completed yet.
 - 5.8 Grounding Fuse vs. a wire: Standards for the connected equipment don't agree. It was suggested that we solicit specific comments on this on the next draft.
 - 5.9 Cast Resin Bus: discussion included:
 - 5.9.1 The definition of cast resin was discussed. Bus bars that are encapsulated with no air between the encapsulation may be considered segregated or non-segregated depending upon the design construction.
 - 5.9.2 The working group discussed whether there is any requirements in the standard for air as an insulator. None were noted.

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- 5.9.3 The working group discussed the deferences between segregated phase bus and non-segregated phase bus. The barrier identified in the definitions is later defined in the standard as being metal of a minimum thickness, and metal of the busway has requirements for bonding. The working group decided to more clearly define the barrier in the definitions section. In definitions, insert "metal" before barriers for Nonsegregated-phase bus.
 - 5.9.4 The working group discussed the requirements for the encapsulation material. The material should meet the requirements of both support material and the insulation material, and the future referenced standards that address those requirements will need to be met.
 - 5.9.5 A seperate working group is addressing gas insulated switchgear. This WG decided not to address GIS until a standard governing the equipment is produced.
6. Discussion of comments on Draft D3.2
- 6.1 Prior to the meeting, the Chair and Vice-Chair had compiled all received comments and offered a strawman position.
 - 6.2 The WG began to discuss the technical comments, stopping at #44 of 226.
7. New Business
- 7.1 Teleconference(s) will be scheduled to resolve the remaining issues.
8. Adjournment
- 8.1 The meeting adjourned at 11:59 AM.

Report submitted by:

Tom Hawkins

C37.23 Working Group Vice-Chair

May 13, 2014