

**IEEE C37.20.3 Working Group  
Meeting Minutes  
San Diego, CA USA  
October 7, 2019**

**Attendance:**

<b>Role</b>	<b>First Name</b>	<b>Last Name</b>	<b>Company</b>
Guest	Edwin	Almeida	Southern California Edison
Member	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)
Member	Paul	Barnhart	Underwriters Laboratories
Member	Russell	Boyce	Eaton
Guest	Craig	Bryant	Duke Energy
Member	Robert	Cohn	Powercon Corp.
Member	Randall	Creach	AZZ Switchgear Systems
Guest	Federico	Di Michele	CESI S.p.A.
Member	Jeffrey	Door	The H-J Family of Companies
Member	Sergio	Flores	Schneider Electric Inc. USA
Member	Paul	Gingrich	AZZ Switchgear Systems
Guest	Sahadev	Gohil	AZZ Switchgear Systems
Secretary	Ronald	Hartzel	Eaton Corporation
Member	Jared	Hines	Eaton Corp.
Guest	Benjamin	Hohnstadt	DTE
Member	Jason	Hollander	CHA Consulting, Inc.
Member	Rahul	Jain	S&C Electric Company
Member	Michael	Lafond	ABB
Guest	Benedict	Lavrinoff	Kinectrics Inc
Member	Albert	Livshitz	CE Power Engineered Services
Guest	Alex	Lizardo	Cargill
Chair	Charles	Morse	Siemens Industry, Inc.
Member	Terry	Neighbours	ABB Inc.
Guest	Daniel	Onuoha	S&C Electric Company
Member	Miklos	Orosz	Myers Controlled Power
Guest	Sean	Parsi	Dexotech
Guest	Lise	Phan	Pacific Gas and Electric Company
Member	John	Phouminh	PEPCO HOLDINGS, INC.
Guest	Bobby	Rich	Dominion Virginia Power
Guest	Jeffery	Ricker	SCHNEIDER ELECTRIC
Guest	Dave	Riffe	Westinghouse Electric Company
Member	Mark	Roberson	AZZ/Calvert
Member	Leonel	Santos	Schneider Electric
Member	Garett	Sims	Eaton Corp.
Member	Paul	Sullivan	DuPont
Member	Chand	Taylor	Eaton Corporation
Guest	Nick	Vonfeldt	Ameren Missouri
Member	Michael	Wactor	Powell Industries, Inc
Member	Michael	Whitney	CSA America

**IEEE C37.20.3 Working Group  
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Guest	Mina	Youssef	Eaton Corporation
Guest	Sandeep	Zope	Amazon Web Services (AWS)

**1. Approval of meeting agenda**

Mike Lafond motioned, and Albert Livshitz seconded to approve the agenda as presented. Agenda was approved unanimously. Paul Barnhart and Jason Hollander moved and seconded that Spring minutes be approved. Minutes were approved unanimously.

**2. Welcome and member attendance**

The meeting was called to order by Allan Morse, Chair at 8:00 AM. Allan welcomed the members and guests. 25 - C37.20.3 members and 16 guests were present. Quorum threshold was met.

**3. Introduction of members and guests**

Introductions were made by each C37.20.3 member and guest.

**4. IEEE-SA Patent Policy**

The IEEE-SA patent policy was reviewed and acknowledged during the meeting.

No claims or issues were raised at the C37.20.3 Working Group meeting.

**5. Update C37.20.3 Roster and Document Status**

An updated C37.20.3 Roster was submitted for review and updating.

**6. Changes to current red lined version of the standard:**

See the comment spreadsheet for all the details of the resolutions for each comment.

**7. Ad hoc Report**

The Ad hoc established the wording of section 5.8 "Other Current Sensing Devices" regarding how any of these products should be tested to validate that they are safe for the application. The wording was discussed and accepted at the meeting. The following people were on the Ad hoc team:

Chair – Ron Hartzel

Member – Paul Barnhart

Member – Russ Boyce

Member – Bob Cohn

Member – Terry Neighbours

Member – Terry Woodyard

**8. Ad hoc Established for Section 7.11.2 Ventilation Requirement**

An Ad hoc was established to discuss the wording of section 7.11.2 "Outdoor MEI switchgear, access, and ventilation" regarding the requirement that ventilation "Shall be" included for all outdoor equipment. The thoughts of the group were that this requirement was to deal with the possibility of condensation collecting inside the equipment and possibly leading to some type of an equipment failure. It was discussed that some customers specifically require that the outdoor equipment not be ventilated to prevent failures of the equipment due to their maintenance people not maintaining the equipment to keep the ventilation openings clear. It was decided that some wording addressing this issue would be added to Section 8 as a special

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application note describing the ramifications associated with this decision by the end customer. Ad hoc to meet via teleconference and will report back at the Spring meeting.

Chair – Ron Hartzel

Member – Paul Barnhart

Member – Chand Taylor

Member – Chris Ambrose

Member – Russ Boyce

Member – Bob Cohn

**9. Section 6.2.6.4 Thermal Cycling Withstand – Chairman to raise issue to SA**

The current wording of this section is very general. It doesn't describe the size of the sample, the type of busbar, construction of the busbar, whether the busbar has any bends, etc. This issue affects both C37.20.3 and C37.20.2 standards.

**10. Ad hoc Established for Section 7.1.6 Isolating Means**

An Ad hoc was established to discuss the wording of section 7.1.6 "Isolating Means" regarding the application of grounding switches within C37.20.3 switchgear. Ad hoc to meet via teleconference and will report back at the Spring meeting.

Chair – Eldridge Byron

Member – Paul Barnhart

Member – Chand Taylor

Member – Chris Ambrose

Member – Miklos Orosz

Member – Bob Cohn

Member – Jared Hines

Member – Mike Whitney

Member – Daniel Onuoha

Member – Jeff Ricker

Member – Mike Wactor

Member – Jeff Ricker

Member – Garrett Sims

**11. Next steps**

The chair will update the draft standard per the groups feedback and accept all changes to date that were discussed and approved by the group. The chair will circulate the document along with the updated comment resolution matrix and a new comment spreadsheet over the winter so that new comments may be submitted and compiled prior to the Spring meeting, May 4<sup>th</sup> through the May 8<sup>th</sup> in the Peppermill Resort, Reno, NV.

**12. Adjourn**

The meeting had a recess from 9:45 AM to 10:15 AM and was adjourned at 12:00 PM.

Reported by Ron Hartzel, secretary of C37.20.3 Working Group.