

Low Voltage Switchgear Devices Committee
MINUTES OF THE SPRING 2023 MEETING
Sheraton Sand Key Resort, Clearwater Beach, FL
Wednesday, April 19, 2023, 3:45-5:30 PM

1. Call to order

Meeting was called to order by WG Chair, Jeff Mizener, at 3:45 PM on Wednesday, April 19, 2023.

2. Introduction of attendees

Participants introduced as recorded below. There were 16 of 21 members in attendance plus 13 guests. Quorum was met.

3. Approval of Agenda

Agenda R0 was reviewed by WG motion to accept by Marcelo Valdes(1st) and Mike Lafond (2nd), motion was approved by unanimous consent

4. Approval of the minutes from the previous meeting

The minutes from the last meeting were shared. Motion to approve by Mike Lafond (1st) and by Marcelo Valdes (2nd). The minutes were approved by acclamation.

5. Working Group/Task Force/Study Group Status Reports

a) C37.13: IEEE Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures **K. Flowers**

Met on Monday 4/17, 15 members of 21 present, 39 total in attendance.

Key items:

Clint Carne named new Secretary. The Par expires end of 2023, a 2 year extension will be requested. Time Current Curve Ad Hoc reported, the plan is for an annex on time current curves will be added. The EMC Ad Hoc reported and the plan is to change the required EMC tests from IEEE C37.90 series to IEC 60947-2 EMC tests. Thermal testing Ad Hoc met, copyright permissions still needed, work of the Ad Hoc will continue. C37.100.8 aging of lubricants working group is requesting info on speed of mechanisms, the topic will be added to Time Current Curve Ad Hoc. An Ad Hoc was formed on definite purpose breakers.

b) C37.13.1 Definite-Purpose Switching Devices for Use in Metal Enclosed Low-Voltage (600V AC and Below) Power Circuit Breaker Switchgear **D. Zia**

Met on Tuesday 4/18, it was the first working group meeting with 14 in attendance. The Par was approved in February. Reviewed the draft in the meeting and a history of the products was provided by Dean Sigmon that will be added to the introduction. The next step is the chair will review draft and recommend some changes and circulate the draft for comment.

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c) Par Study Group for C37.17 IEEE Standard for Trip Systems for Low-Voltage (1000 V and below) AC and General Purpose (1500 V and below) DC Power Circuit Breakers
J. Mizener

Met on Monday 4/17, 27 attendees. Discussed potential changes including software updates. Discussion of how to properly reference UL 5500, partitioning of firmware could potentially be used to create separation between protective functions that are subject to third-party evaluation and those not subject to evaluation. Time-current curves were discussed and it was acknowledged that coordination between C37.13 and C37.17 is necessary. First working group meeting will be held at the Fall 2023 meetings.

d) C37.14 IEEE Standard for DC (3200V and below) Power Circuit Breakers Used in Enclosures
L. Grahor

Met on Tuesday 4/18, 24 people were in attendance, 11 of 16 members were present, Quorum was met. Key items: PAR revision was approved to include the IEEE VTS Traction Power Systems Standards committee to be co-sponsor and to add "Low Voltage" to the title of the standard. A motion was approved for Brian Gerzeny to act as official liaison between the C37.14 working group and the IEEE VTS Traction Power Systems Standards Committee. Continued work on reviewing the comments on Draft 2. An Ad Hoc group led by Clint Carne was formed to study and make a recommendation for establishing a test procedure for finding the maximum arcing time for the load (low) current switching tests. An Ad Hoc group led by D. Moser was formed to study and make a recommendation for establishing ratings and test circuit parameters for 1000-volt general purpose circuit breakers (Tables B.1 and B.2).

e) PAR Study Group C37.27 IEEE Application Guide for Low-Voltage AC Power Circuit Breakers Applied with Separately-Mounted Current-Limiting Fuses
M. Valdes

Did not meet, the first working group meeting at the fall 2023 meetings.

6. Old Business
None

7. New Business
a) LVSD New Member: Erik Doroz

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- b) Procedure for Meeting Rooms – WG Chairs, advise LVSD Subcommittee Chair concerning WG meeting room requirements (preferred schedule, number of participants, and A/V needs). Provide details no later than May 22, 2023
- c) ADSCOM/Main Committee Meeting Items – None
- d) Working Group Minutes – Working group chairs should have their minutes emailed to Lou Grahor preferably by May 22, 2023, for publishing on the website. Email address: LouisFGrahor@eaton.com
- e) Mike Lafond – discussed Ad Hoc on thermal test and C37.20.1 comments on temp rise. The combined C37.20.1 and C37.13 Ad Hoc will meet to work on thermal test issues and the C37.20.1 comments.

8. Upcoming meetings

- Fall 2023: Catamaran Resort, San Diego, CA
- Spring 2024: Ft. Lauderdale, FL
- Fall 2024: Oklahoma City, OK
- Spring 2025: TBD
- Fall 2025: Reno, NV

9. Adjourn

Meeting adjourned at 4:16 PM.

Reported by: Lou Grahor – LVSD Vice Chair

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Attendance record:

First Name	Last Name	Company	Role	4/19/2023
Paul	Barnhart	UL LLC	Member	✓
Francis	Beauchemin	Hydro-Quebec	Guest	✓
Randy	Blake	Schneider Electric	Guest	✓
Robert	Burns	Eaton	Guest	✓
Ted	Burse	Powell Industries, Inc.	Member	✓
Clint	Carne	Schneider Electric	Guest	✓
Daniel	Delfino	ABB	Member	✓
Erik	Doroz	Eaton	Member	✓
Doug	Edwards	Siemens Industry, Inc.	Member	✓
Keith	Flowers	Siemens Industry, Inc.	Member	✓
Marc	Foster	Schneider Electric	Guest	✓
Sahadev	Gohil	Avail Switchgear Systems	Retired	✓
Lou	Grahor	Eaton Corporation	V. Chair	✓
Erin	Hardy	Eaton	Guest	✓
Dan	Hrncir	Eaton	Member	✓
Mike	Lafond	UL LLC	Member	✓
Josh	Lustig	Black & Veatch	Guest	✓
Ken	McKinney	UL LLC	Guest	✓
Jeff	Mizener	Siemens Industry, Inc.	Chair	✓
Darryl	Moser	ABB	Member	✓
Owen	Parks	ABB	Member	✓
Wahaj	Saleem	Siemens Industry, Inc.	Guest	✓
Dean	Sigmon	xPert Solutions Group LLC	Member	✓
Kevin	Sippel	Eaton	Member	✓
Bryan	Tatum	UL LLC	Guest	✓
Christo	Thomas	SCHNEIDER ELECTRIC USA INC	Member	✓
Andrew	Truman	Black & Veatch	Guest	✓
Marcelo	Valdes	ABB	Guest	✓
Danish	Zia	UL LLC	Member	✓

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