

**LVSD Subcommittee  
Meeting Minutes  
San Diego, CA, USA  
October 3, 2012**

**Attendance:**

**Members:**

D. Dunne  
D. Edwards  
M. Flack  
K. Flowers  
S. Gohil  
H. Josten  
M. LaFond  
D. Mazumdar  
J. Mizener  
A. Morse  
T. Olsen  
D. Sigmon  
P. Sullivan

**Affiliation:**

Schneider Electric  
Siemens Energy, Inc.  
Southern Nuclear  
Siemens Industry, Inc.  
AZZ / Central Electric Manufacturing Co.  
Siemens Energy & Automation  
General Electric  
AZZ / Central Electric Manufacturing Co.  
Siemens Industry, Inc.  
Eaton Corporation  
Siemens Industry, Inc.  
Eaton Corporation  
DuPont

**Honorary Members:**

None

**Affiliation:**

**Guests:**

M. Cannady  
C. Carne  
L. Grahor  
T. Hawkins  
J. Hidaka  
D. Hrcir  
A. Jivanani  
C. Kennedy  
D. Moser  
O. Parks  
A. Patel  
M. Seabrook  
J. Shullaw  
R. Tanner

**Affiliation:**

Southern Company Services  
Schneider Electric  
Eaton Corporation  
Siemens  
Underwriters Laboratories  
Eaton Corporation  
General Electric  
Schneider Electric  
ABB  
ABB  
General Electric  
GE Industrial Solutions  
GE Energy – Industrial Solutions  
Schneider Electric

**Excused Absence:**

P. Barnhart

**Affiliation:**

Underwriters Laboratories

**Absent:**

A. Livshitz

**Affiliation:**

Schneider Electric Services

**1. Approval of meeting agenda**

Ted Olsen moved and Doug Edwards seconded to approve the agenda as presented. Agenda was approved unanimously.

**2. Welcome and member attendance**

The meeting was called to order by Keith Flowers at 3:49 PM. Keith welcomed the members and guests. 13 LVSD members and 14 guests were present. Quorum threshold was met.

**3. Introduction of members and guests**

Introductions were made by each LVSD member and guest.

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**4. Approval of the minutes of the Spring 2012 LVSD meeting**

The minutes of the May 2, 2012 meeting held in St. Pete Beach, FL were previously emailed to LVSD personnel. Ted Olsen moved and Mike Lafond seconded to approve the minutes without revision. Minutes were approved unanimously.

<http://www.ewh.ieee.org/soc/pes/switchgear/S12Minutes/S12LVSDmi.pdf>

**5. Update LVSD Roster and LVSD Document Status**

An updated LVSD Roster was submitted for review and updating. The updated roster will be posted on the IEEE website.

<http://www.ewh.ieee.org/soc/pes/switchgear/F12Minutes/F12LVSDa1.pdf>

An updated LVSD Document Status and Working Group/Task Force membership list was circulated to LVSD Working Group and Task Force members for updating. The updated document status will be posted on the IEEE website. It was noted during the meeting that a working group will need to be established in Spring 2013 for the revision of C37.13.1.

<http://www.ewh.ieee.org/soc/pes/switchgear/F12Minutes/F12LVSDa2.pdf>

**6. Working Group / Task Force Status Reports**

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

D. Edwards – The task force met on Monday afternoon with 12 members and 18 guests present. The PAR has not yet been submitted but will be in late October. Technical comments from Draft D2 were reviewed and resolved. A task force was established to draft new text for the requirements for testing flame-resistant capabilities as ASTM D 229 is not appropriate for molded and cast insulating materials. Setting of instantaneous phase trip elements was changed to coordinate with short-time current. Draft 3 was prepared and will be circulated for comment by the end of October.

<http://www.ewh.ieee.org/soc/pes/switchgear/F12Minutes/F12LVSDa3.pdf>

**b. C37.14: Standard for Low-Voltage DC Power Circuit Breakers Used in Enclosures**

K. Flowers – The working group met on Monday morning with 13 members and 7 guests present. Comments on Draft D5 were reviewed. Issues discussed included temperature rise limits at the breaker terminal connections, sequence of testing in Design sequence 1, additional description of requirements for test sequence 3, clarification of Annex A and Annex B tables, and follow-up design verification testing. Draft D6 will be prepared and circulated by year-end.

<http://www.ewh.ieee.org/soc/pes/switchgear/F12Minutes/F12LVSDa4.pdf>

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**c. C37.16: Standard for Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage AC (1000V and Below) and DC (3200V and Below) Power Circuit Breakers**

A. Morse – No working group meeting was conducted. PAR withdrawal will be coordinated with the PAR submission for the revision of C37.13 which incorporates remaining content of C37.16.

**d. C37.17: Standard for Trip Systems for Low-Voltage (1000 V and below) AC and General Purpose General Purpose (1500 V and below) DC Power Circuit Breakers**

J. Mizener – No working group meeting was conducted. The standard was approved by the Standards Board in June and is now published. Ted Olsen moved and Mike Lafond seconded that the working group be dissolved. The motion carried.

**7. Old Business**

**a. C37.50 Status**

K. Flowers – ANSI C37.50 2012 edition was approved in February but was lost in the NEMA revision process due to a change in personnel. It was published with numerous editorial errors. Corrections are now underway and re-publication will occur soon.

**b. IEEE-SA Patent Policy**

The IEEE-SA patent policy is now reviewed and acknowledged during online meeting registration therefore slides are no longer required to be reviewed during every Working Group meeting. The patents materials are available at <http://standards.ieee.org/board/pat/pat-slideset.pdf>.

No claims or issues were raised at any of the LVSD Subcommittee Working Group meetings.

**8. New Business**

**a. LVSD website**

Feedback was solicited from members on the LVSD website. One suggestion was that hyperlinks be added to the latest working group minutes. It was noted that Jeff Mizener will be working with Ken Edwards as the new webmaster to improve the website. Any additional feedback or suggested improvements on the website can be submitted to Jeff, Allan Morse, or Keith Flowers.

**b. Standardized Format for Time – Current Curves**

Jeff Mizener has received some feedback from users regarding inconsistency between time – current curves of various manufacturers and asked whether there might be a need to standardize the format. Jeff agreed to do some additional research and consult with other manufacturers and report back to the subcommittee at the Spring 2013 meeting.

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**c. Recommended Practice for Testing and Inspecting Low-Voltage Power Circuit Breakers**

Jeff Mizener raised the issue of inconsistently formatted field test reports and asked whether it might be worthwhile to establish a task force to review and establish a standard format. Similar documents exist for other types of products (NEMA AB-4 and IEEE C37.10). Jeff Mizener moved that a task force be established to develop a guide for a standardized format for reporting results of tests performed in the field on low-voltage power circuit breakers. Harry Josten seconded the motion. The motion carried. A task force meeting will be scheduled at the Spring 2013 meeting. Jeff Mizener was appointed to chair the task force.

**d. Procedure for Meeting Rooms**

The procedure for Working Group and Task Force meeting room requests was reviewed.

**e. Main Committee Meeting Items**

Publication of C37.17 and upcoming PAR submission for C37.13 were identified as items for presentation at the Main Committee Meeting.

**f. Working Group and Task Force Minutes**

All Working Group and Task Force meeting minutes were submitted to Allan Morse.

**g. Upcoming Meetings**

Spring 2013	April 28 – May 2, 2013	San Luis Conference Center' Galveston, TX
Fall 2013	September 15 – 19, 2013	Hilton Palacio del Rio, San Antonio, TX
Spring 2014	May 4 – 8, 2014	Disney Contemporary Hotel, Orlando, FL
Fall 2014	TBD	Renaissance, Asheville, NC (tentative)
Spring 2015	April 26 – 30, 2015	Tradewinds Resort, St. Pete Beach, FL

**9. Adjourn**

A motion was made by Harry Josten and seconded by Doug Edwards to adjourn the meeting. The motion was approved. The meeting was adjourned at 4:28 PM.

Minutes submitted by:

Allan Morse, LVSD Secretary  
October 3, 2012

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At the time of this meeting, the Low Voltage Switchgear Devices Subcommittee was comprised of the following members and honorary members:

**Members:**

P. Barnhart  
D. Dunne  
D. Edwards  
M. Flack  
K. Flowers  
S. Gohil  
H. Josten  
M. LaFond  
A. Livshitz  
D. Mazumdar  
J. Mizener  
A. Morse  
T. Olsen  
D. Sigmon  
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Siemens Energy & Automation  
General Electric  
Schneider Electric Services  
AZZ / Central Electric Manufacturing Co.  
Siemens Industry, Inc.  
Eaton Corporation  
Siemens Industry, Inc.  
Eaton Corporation  
DuPont

**Honorary Members:**

H. L. Hess  
J. M. Jerabek  
W. E. Laubach  
N. P. McQuin  
P. J. Notarian  
G. R. Nourse  
R. J. Puckett

**Affiliation:**

Consultant  
Sargent & Lundy LLC  
Laubach Associates  
McQuin Electrical Power Consulting, Inc.  
Underwriters Laboratories  
George Nourse Electrical Engineering Service  
Consultant