

**C37.13 Working Group**  
**MINUTES OF THE SPRING 2014 MEETING**

Contemporary, Orlando, FL USA  
May 5, 2014

The meeting was called to order by Chair, D. Edwards, at 1:30 PM on May 5, 2014.

**Attendance**

Members: Total 16 present, 9 absent, 0 excused. Quorum was met.

Guest: 19

Total: 35

Attendance is listed at bottom of this document. Membership and attendance status are updated in AMS system.

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1. Approval of Meeting Agenda

Agenda was discussed and approved by consensus.

2. Introduction of members and guests

Completed

3. Approval of the minutes

Minutes from C37.13 Fall 2013 San Antonio meeting were discussed and approved by consensus.

Link: <http://www.ewh.ieee.org/soc/pes/switchgear/minutes/2013-2/F13LVSDa3.pdf>

4. Standard Status

a. PAR approved 01-Feb-2013. PAR expiration 31-Dec-2017

b. C37.13-D7a and C37.13-D6a creating D7a Comments provided to WG prior to meeting.

c. C37.13-D7b version created during WG meeting.

5. Draft Update / Comments

The revisions to C37.13 creating Draft D7b were made in the document. Comments were kept using WORD's Comments tool. The comments form (Excel) will be updated by Chair after the WG meeting and distributed to WG. The schedule is detailed below. Main discussions items include:

a. Section 2: Definitions

- anti-pump – Definition to be added.
- clearing time (added) – WG agreed that the definition this definition with minimum essentially addresses issues with “commit time”.
- frame size (revised) – WG agreed to add definition.
- low-voltage ac power circuit protector (added) – Keep or not answer is pending D7b review.
- silver-surfaced or equivalent (added) – WG agrees that the definition addresses R. Puckett previous comment.
- trip-free – Definition to be added

b. 5.6.3 Remote relay tripping – WG agreed not to add as details are in the Application Guide section.

c. 5.6.3 60 Hz testing only?

Clauses 5.6.3.b) 2) and 5.6.3.b) 4) changed from “50 Hz” to “50 Hz or 60 Hz (+/- 5%)”.

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The document will be reviewed by WG Chair for addition of the “+/- 5%”.

5.6.3. b) 1) for testing of less than one power frequency remains unchanged with short-circuit testing required at both 50 Hz and 60 Hz.

WG vote for keeping 50 Hz and 60 Hz for item 5.6.3 b) 1) was split 8 to 8 with WG Chair breaking tie to keep the text as is.

- d. Table 2 – Update of Column 2 – “Up to 730V” - WG Agrees
  - e. Table 5 Functional components – Optional devices  
For Power CB's, row (5) for independently, manually operated mechanism – Added as “O” – Optional.
  - f. 7.2 Limits of temperature and silver-surfaced or equivalent  
WG Agrees that with the addition of the definition “silver-surfaced or equivalent” to the definitions, this section is good – No change needed.
  - g. Table 6 – Required material properties – J. Hidaka report  
Commenter and UL review were that the table was correct – no change made.
  - h. 8 Test procedures – Revised to reference ANSI C37.50 for test requirements with additions.  
Clause 8 was updated so that items that are currently covered in C37.50 are removed. Items that are not currently covered in C37.50 are kept.
  - i. 9 Application Guide – Move to Annex or not?  
This section is to be moved to an Informative Annex.
  - j. 9.1.4.6.2 CB with instantaneous phase trip elements – Review maximum instantaneous phase trip values up to short-time current rating text.  
Review by WG is that sentence is correct as is.
  - k. 9.3 Application of CB selective tripping – J. Mizener text – Zone Selective Interlocking Section 9.3.6 Zone selective interlocking added with text. Added last sentence of “The manufacturer's literature should be conducted” – may be change by Chair to match other document wording.
  - l. 9.3.2.3 Time-current characteristics – Discussion of “commit time” versus “minimum clearing time.”  
Text agreed to is, “The published time-current characteristics of a circuit breaker should clearly show the minimum and maximum clearing time of the device.”  
WG vote use text of “minimum clearing time” instead of “commit time” was approved with majority vote.
  - m. Not discussed – issue raised after the WG meeting.  
K. Flowers comment – Mechanical manual Open and Close buttons colors and labeling. This will be included in the upcoming draft for WG review.
6. Schedule (partially discussed during WG meeting)
- a. C37.13 D7b with Comments Form (end of May)
  - b. WG responses in 2 weeks (mid-June)
  - c. Resolution of WG comments (end of June)
  - d. Other actions as needed – 2 additional weeks (mid-July)
  - e. Go to ballot (mid-August)

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- f. Ballot time (mid-September)
- g. Resolve comments – Target at fall 2014 meeting in Asheville.
- h. Motion made by K. Flowers with seconded by D. Hrncir and unanimously approved.  
Motion: After post-Orlando review of C37.13 D7b by WG, request to initiate ballot.

This is action item for LVSD S/C meeting on May 7, 2014.

Meeting adjourned ~ 3:30 PM.

Reported by:

Doug Edwards

Chair C37.13

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**Attendance**

<b>Role</b>	<b>First Name</b>	<b>Last Name</b>	<b>Company</b>
Chair	Doug	Edwards	Siemens Industry, Inc.
Guest	Ted	Burse	Powell Industries, Inc
Guest	Clint	Carne	Schneider Electric
Guest	Susan	Colsch	Schneider Electric
Guest	Daniel	Delfino	General Electric
Guest	Michael	Flack	Southern Company Generation
Guest	Aaron	Gibbs	Schneider Electric
Guest	Jeffrey	Hanson	Schneider Electric
Guest	Trevor	Hendricks	Schneider Electric
Guest	Jeffrey	Hidaka	Underwriters Laboratories
Guest	David	Jackson	ABB
Guest	Arthur	Jur	Eaton Corporation
Guest	John	Kaminski	Siemens
Guest	James	Lagree	Eaton
Guest	Casey	McCollum	ABB Inc
Guest	Molson	Parvin	CB&I
Guest	Richard	Rohr	Powell Electrical Systems
Guest	Amy	Rowell	Eaton
Guest	Christian	Sasse	Tavrida Electric North America Inc
Guest	Erin	Spiewak	IEEE
Member	David	Dunne	Schneider Electric
Member	Keith	Flowers	Siemens Industry, Inc.
Member	Lou	Grahor	Eaton Corporation
Member	Tom	Hawkins	Siemens Industry
Member	Jeffrey	Hidaka	Underwriters Laboratories
Member	Dan	Hrncir	Eaton
Member	Anurag	Jivanani	General Electric
Member	Harry	Josten	Siemens Energy & Automation
Member	Chad	Kennedy	Schneider Electric
Member	Michael	Lafond	General Electric
Member	Jeffery	Mizener	Siemens Industry
Member	Darryl	Moser	ABB
Member	Michael	Sigmon	Eaton Corporation
Member	Paul	Sullivan	DuPont
Member	Marcelo	Valdes	GE