

PC37.17 PAR Study Group Minutes
IEEE STANDARD FOR TRIP SYSTEMS FOR LOW-VOLTAGE (1000 V AND BELOW) AC
AND GENERAL PURPOSE (1500 V AND BELOW) DC POWER CIRCUIT BREAKERS
JEFF MIZENER, CHAIRMAN
CLINT CARNE, VICE-CHAIRMAN

Meeting Date: 17 October 2022

Meeting Time: 1:30PM-3:15PM, EST

Location: Hilton Burlington Lake Champlain, Burlington, VT

A. Call to order

The meeting was called to order at 1:31PM EST.

B. Introductions

Self-introduction with affiliations was made by attendees. There were 22 people present. As a study group by definition all attendees are members, and we have a 100% quorum.

C. Approval of agenda

The agenda was approved by Paul Rakus (1st) and Dan Hrcir (2nd). There were no Nay votes.

D. Instructions for Chairs of Standards Development Activities and IEEE SA Copyright Policy

The slides for "[INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES](#)" and "[IEEE SA COPYRIGHT POLICY](#)" were shown to the working group. These slides can be downloaded from the links.

E. Working group P&Ps

All in attendance were referred to the Switchgear Committee P&P link in the case of procedural questions.

[http://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_WG_PP-Switchgear--approved-\(2013-09-19\).pdf](http://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_WG_PP-Switchgear--approved-(2013-09-19).pdf)

F. Document status report

- C37.17 D8 10-day recirculation ballot concluded successfully with only one comment. That comment was resolved.
- Document was submitted to RevCom on September 1.
- Considering continued interest in updating C37.17 for the future, this WG is meeting
 - as a PAR Study Group.

G. New business

- PAR was updated during session. PAR was approved by unanimous consent.
 - PAR will request a new revision to C37.17 rather than an amendment
- Topics for consideration in revising C37.17-2022.
 - Updates to software and considerations:
 - When updates are made, the revision being installed must be type tested to ensure that it is compatible with the device in the field
 - UL 1699 Supplement SC (AFCI devices) – can be a reference for allowing over the air updates to the devices in the field
 - UL 5500 – reference for remote software updates
 - Electronic protective relays are updated in the field, perhaps this is a relevant example to review
 - Several restrictions could be considered: not increasing pickup settings above capacity of device, settings to remain consistent before and after an update, removal of settings is not allowed, can an LSG device be updated to LSIG?

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- Ensure unified definition of TCC in both C37.13, C37.17
 - Large overlap of WG members between both standards
 - Annex B lists differential relaying and zone-selective interlocking, these function differently than other items listed like instantaneous settings. A note to give some guidance about this topic would be helpful for users of C37.17.
 - Differences in requirements for electromechanical and electronic devices –
 - Should some of this content be moved to an annex for historical record, or are there specialty applications still in production for electromechanical architecture that should be noted
 - 1200A is a new frame being added to C37.13 and C37.14. Relevant sections need to be considered, such as Tables 1 and 3.
 - It was mentioned that some breakers have mechanical override designed to open the breaker at currents (for example) > 8x. Although this may be an issue to be addressed in C37.13, any TCC provided by the original manufacturer or aftermarket manufacturer must take such behavior into account.
 - Consider adding cautionary language addressing aftermarket trip units.
 - Tables 1 & 3 have been in the standard for a long time. The history of how they came to be is not clear. Consideration if any additional information can be documented to help current users understand why the tables are constructed as they are.
- Actions
 - PAR to be shared at LVSD
 - Circulation of PC37.17 REV08 to group
 - Confirm method of sharing documentation with group, potentially IMeet Central
 - Chair to request WG access to UL 1699 and UL 5500 if not already done so

H. Conclusion

- Wrap-up and discussion of next steps
- The next planned in-person meeting: Spring 2023, Sheraton Sand Key Resort.

Meeting minutes respectfully submitted by Clint Carne

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Attendees List:

Last name	First name	Affiliation	Role
Bohrer	Christopher	URC	Member
Carne	Clint	Schneider Electric	Secretary
Delfino	Daniel	ABB	Member
Grahor	Lou	Eaton Corporation	Member
Hawkins	Tom	Siemens Industry, Inc.	Member
Hrcir	Dan	Eaton	Member
Lafond	Michael	No Affiliation	Member
Mizener	Jeff	Siemens Industry, Inc.	Chair
Moser	Darryl	ABB	Member
Parks	Owen	ABB	Member
Rakus	Paul	Eaton	Member
Sippel	Kevin	Eaton Electric	Member
Thomas	Christo	SCHNEIDER ELECTRIC USA INC	Member
Valdes	Marcelo	ABB	Member
Zia	Danish	UL LLC	Member
Sauve	Todd	Rockwell Automation	Member
Saleem	Wahaj	Siemens	Member
Kaminski	John	Siemens	Member
Hunt	Terry	Westinghouse	Member
Doroz	Arkadiusz	Eaton	Member
Burns	Robert	Eaton	Member
Hardy	Erin	Eaton	Member