

PC37.17 Ad Hoc on Software Updates  
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:** 3 September 2021  
**Meeting Time:** 8:00AM-10:00AM, CDT  
**Location:** [Teams, online](#)

**A. Call to order**

The meeting was called to order at 9:01AM CDT.

**B. Introductions**

Roll call logged in the chat window to document attendees. 5 members and 2 guests were present.

**C. Approval of agenda**

There were no prior meeting minutes for this group to review. Item D was struck from the agenda.

Motion for the agenda revision made by Mike Lafond, 2<sup>nd</sup> Darryl Moser. Approved by unanimous consent. There were no Nay votes.

Motion for approval of the agenda made by Mike Lafond, 2<sup>nd</sup> Darryl Moser. Approved by unanimous consent. There were no Nay votes.

~~**D. Approval of the minutes from the previous meeting**~~

**E. Rules and guidelines for conducting working group meetings**

The patent slides downloaded from the link below were reviewed. There were no patent claims.

<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

**F. 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)

**G. Document status report**

- PC37.17\_D05.0\_2021.03.05\_V1 was circulated on 2021-03-26, comments received, reviewed on 09-04-21.
- Document revised to PC37.17\_D05.0\_2021.03.05\_V3 circulated with the meeting invitation.

**H. New business**

- Review of PC37.17\_D05.0\_2021.03.05\_V3, in particular Clause 12.2 and some wording changes made after the last meeting.
- The group reviewed UL 1699 Supplement SC as it provides an example outline for remote software updates which includes references to UL 5500
  - It was agreed that a strawman proposal should be created using UL 1699 as a guide to update section 12.2 Trip system firmware updates to direct acting current protective functions

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- To help define scope boundaries of section 12.2, a definition for “direct acting current protective functions” is to be created. Intent is to limit scope to LSIG functions, of which not all are required in the product
  - Draft definition: direct acting current protective functions - direct acting trip functions defined as exclusively to the following functions: long-time, short-time, instant, ground fault
- Actions
  - Timeline of PAR to be reviewed. Consider if updates to 12.2 would likely result in the need for a PAR extension. Clint Carne
  - Creation of strawman proposal for section 12.2 using UL 1699 as a guide – Jeff Mizener
    - Post strawman proposal to SharePoint – Jeff Mizener
  - Request copies of UL 1699 and UL 5500 for the WG – Jeff Mizener
    - Facilitate request with UL – Danish Zia
    - UL 5500 – Free online copy can be viewed at this link with a UL account
      - <https://standardscatalog.ul.com/ProductDetail.aspx?productId=UL5500>

**I. Conclusion**

- Wrap-up and discussion of next steps
- The PAR status. The PAR expires December 31<sup>st</sup>, 2022, PAR extension request not need at this time
- The next meeting: October 10-14, 2021 in Virtual *Reno, NV*
- Meeting ended at 9:51 AM CDT

Meeting minutes respectfully submitted by Clint Carne

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Attendees List:

<b>Last name</b>	<b>First name</b>	<b>Affiliation</b>	<b>Role</b>
Bohrer	Christopher	Utility Relay Company	Guest
Carne	Clint	Schneider Electric	Secretary
Lafond	Michael	ABB	Member
McClarnon	Ryan	Utility Relay Company	Guest
Mizener	Jeff	Siemens Industry, Inc.	Chair
Moser	Darryl	ABB	Member
Zia	Danish	UL LLC	Member