

PC37.17 WG 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:** 01 April 2024  
**Meeting Time:** 1:30PM-3:15PM, EST  
**Location:** Westin Beach, Fort Lauderdale, Florida

**A. Call to order**

The meeting was called to order at 1:33PM EST.

**B. Introductions**

Introductions were made of all attendees. Attendees are listed below. Quorum was confirmed with 14 of 28 members present and a total of 22 attendees.

**C. Approval of agenda**

Motion was made by Danish Zia to update the agenda to add indirect acting trip system to the agenda. Dan Delfino 2<sup>nd</sup> and the motion was approved via unanimous consent.

The agenda was approved by Danish Zia (1st) and Dan Delfino (2nd). The agenda was approved by unanimous consent.

**Action:** WG members please check MyProject to ensure your "Role Acceptance Pending State" is "Accepted" and not "Pending". See attached slides for how to complete this action.

**D. Review of IEEE Copyright Policy**

Link to IEEE Copyright Policy Slides.  
<https://standards.ieee.org/ipr/>

**E. Review of IEEE Patent Slides**

Link to IEEE Patent Slides.  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

**F. Approval of previous meeting minutes**

The agenda was approved by Darryl Moser (1st) and Dan Delfino (2nd). The agenda was approved by unanimous consent.

[F23\\_LVSD\\_C37.17\\_WG\\_Minutes\\_R01](#) – note that R01 corrected the heading of the minutes to be Working Group instead of PAR Study Group.

**G. Working group P&Ps**

All in attendance are referred to the Switchgear Committee P&P link in the case of procedural questions.  
[https://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES\\_SWG\\_WG\\_PnP\\_Final\\_2019-03-19.pdf](https://www.ewh.ieee.org/soc/pes/switchgear/O-and-P/PES_SWG_WG_PnP_Final_2019-03-19.pdf)

**H. Document status report**

- C37.17-2022 was approved and has been published.
- The PAR expires on 31 December 2027.

**I. New business**

- Add indirect acting trip systems to C37.17
  - Definition for indirect acting trip system was pulled from C37.13 and reviewed.

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- Concern was raised under how a system should operate when control power is lost/drops below a specified level.
- **Action:** Document needs to be updated to make it clear when requirements are applicable to direct acting trip systems, indirect acting trip systems, or both. Adding indirect-acting trip system sill require a PAR revision.
- Conflicting requirements between C37.13 Draft 12 and C37.17.
  - Draft 12 of C37.13 contains an Informative clause (D.1.3.1) which contains the following text:
    - Pickup setting of the long-time-delay elements may be provided above the continuous current ratings of the trip device for the purpose of maintaining circuit continuity during overload conditions. Supplemental overload current protection should be applied to prevent long-term operation with currents above the lesser of either the direct-acting overcurrent trip device current rating or the continuous current rating of the circuit breaker.
    - Currently, C37.17, Clause 6.2 contains the following text:
      - The maximum pickup setting for a long-time tripping function shall not exceed the continuous current rating of the circuit breaker frame.
      - **Action:** Ask LVSD to provide guidance of how to address this conflict.

**J. Old business**

- Review the status of copyright release of UL 1699 for use by this WG.
  - UL 1699 is not needed.
- Discuss the question of how to handle a failed software update based on the self-monitoring reactions in Clause 5.2.
  - **Action:** Chair to add software updates to section 12, pulling information from historical WG efforts.
- Discuss whether “core protections” (L, S, I, & G) can be updated.
  - **Action:** Chair to draft strawman text for next draft
- Discuss how best to coordinate with C37.13 with respect to time-current curve documentation/representation.
  - This topic will be picked up after C37.13 complete’ s their next revision of Annex E which is going through comment resolution.
- Are electromechanical trip devices are still being manufactured? Apropos historical annex.
  - **Action:** Strip out performance requirements from document as these are legacy designs. Leave note that performance requirements for electromechanical trip devices can be found in C37.17 2022. This will require a PAR revision.
- Review definitions: “pickup (of a trip device)” and “pickup setting” – ensure proper use.
  - **Action:** Chair to update in next draft.
- Draft text of how to reference UL 5500 (using 1699 as reference)
  - Was already completed by Danish Zia in the fall.
- Reach out to current suppliers of electromechanical trip devices.
  - **Action:** Doug Edwards will reach out to contacts and provide feedback to WG.

**K. Conclusion**

- The next planned in-person meeting: Fall 2024 – October 13 - 17, OMNI Hotel, Oklahoma City, OK

**L. Adjourn**

Meeting adjourned at 3:05PM EST

