

PC37.17 Working 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: 5 October, 2020
Meeting Time: 8:00AM-12:00PM, CDT
Location: IEEE SA WebEx

A. Call to order

The meeting was called to order at 8:01AM CDT.

B. 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.

C. Introductions

Roll call was made by vice-chairman to note attendees. 18 of 22 members and 7 guests were present. Quorum threshold was met.

D. Approval of agenda

The agenda was approved by unanimous consent. There were no Nay votes.

E. Approval of the minutes from the previous meeting

The minutes from the last meeting were approved by unanimous consent. There were no Nay votes.

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

- Current document: PC37.17_D04.0_2020.05.04_V2.5, circulated on 2020-09-08.
- Draft 4 was circulated prior to the meeting; 33 comments were received.

H. New business

- PC37.17_ D04.0_2020.05.04_V2.5 was reviewed with the working group. The following were the main discussion points during the meeting:
 - Any definition that is not mentioned *exactly* in the mandatory body of the document must be removed from the definitions section. Although this document has been published several times in the past without that being noticed by IEEE Editorial, we are told that there will be a renewed focus on this when this document goes to ballot. For that reason, an additional Informative Annex will be created, and unused definitions moved there for historical preservation.
 - We were reminded that the word "should" is deprecated. All instances of that word will be considered for revision to "shall".
 - Features not a part of the core protection functionality (composing L, S, I & G) are not in scope for this standard. There was discussion about adding them but the consensus was that the PAR should not be revised at this late date and

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that, as least as far as “protective relay functions” (as defined in IEEE C27.2) are concerned, there is very little in the way of definition on how they should operate. Perhaps in the future.

- There was a discussion about ground fault protection in the definitions section. It was proposed that the sentence “A scheme in which faults to ground within equipment are detected, triggering actions to limit the damage” be revised to read “within the circuit”. There was no consensus on this.
- The drop out voltage of a undervoltage trip device was discussed. It is currently stated that the dropout voltage has a range: “The drop-out voltage range of an undervoltage trip device shall be within 30% to 60% of the voltage rating of the coil for both ac and dc applications”. The opinion was voiced that this should not be a range because that makes it appear adjustable and the UV trip device is “not intended for use as an undervoltage relay or anti-single-phase protection.” (Note from 10.1). This will be reformulated for clarity in the next draft.
- Section 12.2 was the subject of much discussion and many suggestions were made. The fact that trip system ancillary functions such as metering and communications are not in scope of this standard could potentially simplify this section.
- Actions
 - Review all definitions to ensure their use in the mandatory section of the standard. If not used, they will be moved a new Annex for historical preservation.
 - Comments and corrections will flow into the next draft which will be circulated to the group for consideration.

I. Conclusion

- Wrap-up and discussion of next steps
- The PAR is on schedule. The PAR closes in 2022.
- The meeting: April 18, 2021 in *TBD*
- Meeting ended at 12:00 PM CDT

Meeting minutes respectfully submitted by Clint Carne

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Attendees List:

| Last name | First name | Affiliation | Role |
|-----------|-------------|---------------------------------|-----------|
| Bohrer | Christopher | URC | Guest |
| Burse | Ted | Powell Industries, Inc | Member |
| Carne | Clint | Schneider Electric | Secretary |
| Delfino | Daniel | ABB | Member |
| Dunne | David | Schneider Electric | Member |
| Edwards | Doug | Siemens Industry, Inc. | Member |
| Fender | Karl | Southern States LLC | Guest |
| Flack | Michael | Southern Company Services, Inc. | Member |
| Flowers | Keith | Siemens Industry, Inc. | Member |
| Grahor | Lou | Eaton Corporation | Member |
| Hawkins | Tom | Siemens Industry, Inc. | Member |
| Hook | Daniel | Western Electrical Services | Member |
| Hrncir | Dan | Eaton | Member |
| Lagree | James | Eaton | Member |
| McClarnon | Ryan | Utility Relay Company | Guest |
| Mizener | Jeff | Siemens Industry, Inc. | Chair |
| Moser | Darryl | ABB | Member |
| Owens | Mary | Eaton | Guest |
| Parks | Owen | ABB | Guest |
| Rakus | Paul | Eaton | Member |
| Rohr | Richard | Powell Electrical Systems | Member |
| Sigmon | Dean | Eaton Corporation | Member |
| Sippel | Kevin | Eaton Electric | Member |
| Valdes | Marcelo | ABB | Guest |
| Wiese | Greg | Schneider Electric | Guest |
| Zia | Danish | UL LLC | Member |