

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:** 4 May, 2020

**Meeting Time:** 8:00AM-12:00PM, CDT

**Location:** IEEE SA WebEx

<https://ieeesa.webex.com/ieeesa/j.php?MTID=ma9746779dcb5ed8f8136da2f49db81c6>

**A. Call to order**

The meeting was called to order at 8:00AM 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 23 members and 5 guests were present. Quorum threshold was met.

**D. Approval of agenda**

The agenda was approved by Darryl Moser (1<sup>st</sup>) and Doug Edwards (2<sup>nd</sup>). There were no Nay votes.

**E. Approval of the minutes from the previous meeting**

The minutes from the last meeting were approved by Darryl Moser (1<sup>st</sup>) and Doug Edwards (2<sup>nd</sup>). 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\_D03\_2020.03.02\_V0.0, circulated on 2020-04-09.
- Draft 3 was circulated prior to the meeting; 6 comments were received.

**H. New business**

- PC37.17\_D03\_2020.03.02\_V0.0 was reviewed with the working group. The following were the main discussion points during the meeting:
  - Updated intro verbiage to definitions sections to match that of C37.20.3
  - Definition "Direct-acting overcurrent trip systems (electronic) was simplified and requirements were moved into the normative section of the file.
  - Added a definition for "Trip System"
  - Section 12 Software
    - Discussion was held on the differences between Software and Firmware. The general understanding is firmware is a type of software and

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becomes titled firmware once it is loaded on a device as a fixed program.

- Within the standard this logic is followed. Section 12 and 12.1 use the term software. Section 12.2 the term firmware is used as it describes the software loaded on the device.
  - Trip system health indicator was updated to include recommended colors for types of trip system states and frequencies of flashing per IEC 60073
- Actions
  - Relevant definitions from the old C37.100 will be incorporated into Draft 4
  - Draft 4 will then be circulated among the working group for review and comment

**I. Conclusion**

- Wrap-up and discussion of next steps
- The PAR is on schedule. The PAR closes in 2022.
- The next in-person meeting: October 5, 2020 in Ft. Worth, TX
- Meeting ended at 11:45 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 |
| Dunne     | David       | Schneider Electric              | Member    |
| Edwards   | Doug        | Siemens Industry, Inc.          | Member    |
| Flack     | Michael     | Southern Company Services, Inc. | Member    |
| Flowers   | Keith       | Siemens Industry, Inc.          | Member    |
| Grahor    | Lou         | Eaton Corporation               | Member    |
| Hawkins   | Tom         | Siemens Industry, Inc.          | Member    |
| Hrcir     | Dan         | Eaton                           | Member    |
| Kennedy   | Chad        | Schneider Electric              | Member    |
| LaGree    | James       | Eaton                           | Member    |
| Livshitz  | Albert      | CE Power Engineered Services    | Guest     |
| McClarnon | Ryan        | Utility Relay Company           | Guest     |
| Mizener   | Jeff        | Siemens Industry, Inc.          | Chair     |
| Moser     | Darryl      | ABB                             | Member    |
| Rakus     | Paul        | Eaton                           | Member    |
| Rohr      | Richard     | Powell Electrical Systems       | Member    |
| Sigmon    | Dean        | Eaton Corporation               | Member    |
| Sippel    | Kevin       | Eaton Electric                  | Member    |
| Sullivan  | Paul        | DuPont                          | Guest     |
| Zia       | Danish      | ULLLC                           | Member    |
| Wiese     | Greg        | Schneider Electric              | Guest     |