RODE C37.60 Reclosers PAR Study Group
Meeting Minutes
April 19, 2023 – Clearwater, FL, USA

Chair: Ian Rokser **Secretary:** Federico di Michele

Meeting Minutes

1. Call to Order

The meeting was called to order at 8:00am EDT.

2. Call for Patents/Copyrights

IEEE Patent and Copyright slides were shown. No concerns were raised.

3. Introduction of Members and Guests

Self-introductions with affiliations.

4. Need for project

See attached slide deck.
It is a dual logo standard IEEE C37.60 / IEC 62271-111.
So, chair presented the different approaches of IEC and IEEE. In particular participation to the meetings (in presence and on-line) is open to all members of both IEEE and IEC. Once the project commences, we will form one unified "Dual Logo Maintenance Team" comprising members of the IEEE Working Group for C37.60 and the IEC Maintenance Team MT47.

We will also plan to hold several on-line meetings during the project. Since members are coming from all around the world so no possibilities to accommodate all people during the same meeting time. The chair will seek to schedule two times per meeting, one in the morning (~7am US Central Time) and one in the afternoon (~4pm US Central Time) to enable all the chance to participate.

For now, it is a PAR Study Group so all presents can vote.

Notes from discussion

Scope topic: in these two sessions the goal is to define the scope.
Three topics are under discussion: maximum voltage, now stopped at 38 kV (scope modification); reclosers with dependent manual operation, currently not included (scope modification); reclosers without a grounded enclosure (standard body modification).

Note: IEC could oppose the proposal of the new scope. The chair indicated that if market need is demonstrated, the IEC may be more open to a change to the scope.

The chair will share the new proposal with MT36 of IEC 62271-100 and basically see their reaction.

First topic: Rated maximum voltage > 38kV

- Nodaway in the market there are 72,5 kV reclosers which are not covered by current edition of IEC 62271-111. The discussion is if this standard should meet this market requirement and, if yes, if this standard should be the right one to be modified accordingly.
- Distribution/Transmission: 72,5kV and higher values could be considered in transmission systems and not anymore in distribution systems. Ms. Trost finds an IEEE existing document which is defining distribution system up to 69 kV, but it has been pointed out that some applications, like long transmission line, could need this kind of voltage ratings.
- The opinions of MT47 members collected via questionnaire in the IEC Collaboration Platform were shared with the group for consideration.
- The current proposal is to increase the voltage limit to 72,5kV because it is linked to the possibility to perform direct tests in the lab (in the current edition, direct tests are mandatory).
- Chair presented two ways to proceed:
    - Change the scope, modifying or removing the voltage upper limit;
    - Keep the scope but create an Ad Hoc group checking and evaluating the effort needed to increase the upper limit.

  After a brief discussion, the second way has been rejected because it is just postponing the discussion. So it has been decided to proceed with following motions:

    - Motion 1 - Mr. Uzelac proposed to increase the voltage limit above 38 kV (Ms. Riley 2nd). 31 in favor, 1 oppose, 2 abstentions.

  Before the move to motion 2 and discussion about the value of the voltage limit, participants discussed about the testing method. Synthetic tests could be allowed if all testing requirements are met. Direct tests could be a commercial limitation, because currently just one lab is able to do it.

    - Motion 2 - Chair proposed to not limit the upper voltage of this document (Mr. Uzelac 2nd). 25 in favor, 4 oppose, 5 abstentions.

Second topic: Dependent manual operation

- Chair explained what “dependent manual operation” does mean: operation with applied manual energy with speed and force depending on the action of the operator.
- The problem is to understand which manual operation should be considered. In fact surely a manual operation is not allowed within the operating sequence but it could be necessary before to start the operation sequence (the operating sequence starts with an O operation however a manual operation could be needed to close the cutout before starting the operating sequence).

- In the discussion following topics have been raised:
    - The risk to remove the sentence in the scope, is to include other equipment that are not currently included in the standard.
    - The main concern of this sentence in this scope, coming from IEC, is the safety issue.
    - Including dependent manual close in the scope may necessitate changes to the definition of "automatic circuit recloser."
    - One possible solution could be to keep the scope as it is and explain in the definition the specific case where manual operation is allowed.
    - The opinions of MT47 members collected via questionnaire in the IEC Collaboration Platform were shared with the group for consideration.
- At the end of the discussion, following motion as been proposed:
    - Motion 3 - Mr. Found proposed to remove the statement from the scope "Devices that require a dependent manual operation are not covered by this document" (Mr. Kirkpatrick 2nd). 11 in favor. 4 oppose. 6 abstentions.

Third topic: Reclosers without a ground connection – mounted to an insulator and sitting at line or floating potential

- After the presentation of the topic, which does not technically impact scope (but would impact other sections of the document), following motion has been proposed:
    - Motion 4 – Mr. Olivares proposed to include device without a ground connection within the standard (Mr. Found 2nd).
    - Mr. Olivares accepted an amendment to his previous motion. So new motion is to consider requirements for devices without a ground connection within the body of standard. 20 in favor. No oppose. 2 abstentions.

In definitive, the NEW SCOPE for PAR is:
This part of IEC 62271 applies to all overhead, pad-mounted, dry vault and submersible single or multi-pole alternating current automatic circuit reclosers for rated maximum voltages above 1 000 V.

In order to simplify this document where possible, the term recloser (or reclosers) has been substituted for automatic circuit recloser(s) or cutout mounted recloser(s) or both.

This proposed new scope – in particular, the change to the upper voltage limit – will be proposed to the RODE subcommittee on April 19th, 2023.

5. Project plan for Dual Logo Maintenance Team
See attached draft project plan.

Fall 2023 (October 8-12 in San Diego, CA, USA) will be considered as first IEEE meeting for membership.

6. Review and modify PAR draft as needed

Submit PAR to NesCom by May 19, 2023

7. Next steps/ meeting(s):

Virtual meeting to initiate project – target first half of July

8. Adjournment at 11:29pm EDT

Annex 1: Attendance

Last name	First name	Affiliation	Attended April 19, 2023
Rokser	Ian	Eaton	Yes
Di Michele	Federico	CESI / IEC Italy	Yes
Bannink	Harm	G&W / IEC Netherlands	Yes
Gerzeny	Brian	Powell	Yes
Olivares	Roberto	Siemens	Yes
Hastreiter	Chris	Eaton	Yes
Beseda	David	S&C	Yes
Fitzgerald	Joseph	Eaton	Yes
Darko	Kennedy	G&W	Yes
Schuetz	Rob	Eaton	Yes
Roberts	Brian	Southern States	Yes
Riley	Caryn	Georgia Tech/NEETRAC	Yes
Chiravuri	Anand	Black & Veatch	Yes
Feltis	Mark	Schweitzer Eng	Yes
Soulard	Francois	Hydro-Quebec	Yes
Uzelac	Nenad	G&W	Yes
Bush	Kelsey	ABB	Yes
Kapitula	John	ABB	Yes
Trost	Karla	G&W	Yes
DeCesaro	Frank	DeCesaro Consulting Services	Yes

Last name	First name	Affiliation	Attended April 19, 2023
Almeida	Edwin	Southern California Edison	Yes
Dhawan	Anil	Allegis	Yes
Nayar	Raj	Siemens	Yes
Diallo	Boubacar	Southern States	Yes
Hirz	Harry	G&W	Yes
Kim	Yun Seong	KERI	Yes
Lee	Yong Woo	KERI	Yes
Coldsnow	Kent	Fort Collis Utilities	Yes
Found	Paul	BC Hydro	Yes
Balasubramanian	Ganesh K	Eaton	Yes
Kirkpatrick	Brendan	SCE	Yes
Vazquez	Eric	PG&E	Yes
Neujahr	Jonathan	Eaton	Yes
Sergeyenko	Oleksandr	Tavrida Electric	Yes
Kirienko	Vladimir	Tavrida Electric	Yes
Slattery	Chris	First Energy	Yes
Pruitt	Al	Durham	Yes
Johnson	Travis	Xcel Energy	Yes
Li	Qian (Eric)	Powertech Labs	Yes