



RODE Meeting Minutes

April 19, 2023–Palm Room Sheridan-Clearwater Beach, FL 3:45p Power & Energy Society™

Chair: Travis Johnson

Vice-Chair: Frank DeCesaro

Secretary: TBD

Meeting Agenda

1. **Call to Order 3:45 PM** Travis Johnson
2. **Introduction of Members and Guests** Travis Johnson
3. **Call for patents**..... Travis Johnson
 - a. Patent slides displayed. No claims were raised at this time.
4. **IEEE copyright policy** Travis Johnson
 - a. IEEE copyright slides displayed. No issues raised at this time.
5. **Attendance and Quorum Check**..... Frank DeCesaro
 - a. New membership / Old members Travis Johnson
 - b. Requirements of Membership/Attendance..... Travis Johnson
 - c. We had (40) in attendance. RODE counts a total of 20 active members and (20) guests. Quorum is met at 50%+1 members (12 members), so quorum is met.
6. **Approval of the Agenda**..... Travis Johnson
 - a. Under T&I spelling is incorrect for Alex and fixed to Cochran
 - b. Motion to approve Anil and seconded by Brendan. Agenda was approved.
7. **Approval of Minutes of Fall 2023 Meeting**..... Travis Johnson
 - a. <https://www.ewh.ieee.org/soc/pes/switchgear/minutes/2022-2/F22RODEmiREV0.pdf>
 - b. There have been some changes made and the amended minutes were displayed showing the corrections made.
 - c. Karla Trost motioned to approve, and Caryn Riley seconded. There were no negative votes or abstentions therefore minutes were approved.
8. **Working Group Report**
 - a. IEEE C37.60/IEC 62271-111 PAR Study Group Reclosers Dual Logo Ian Rokser
 - This was a PAR study group with 36 attendees.
 - A PowerPoint presentation was given and is attached to these minutes.
 - On increasing the voltage, a question was raised how this affects us with the IEC.
 - This is an issue that needs to be looked at. The IEC does not have a distribution.
 - A comment was made that it was also found in the Switchgear Committee Policies and Procedures (IEEE PES OPnP) there is not a voltage limit.
 - A question was raised why the PAR group did not cap the rating. While today there is a product at 72 kV today it would be arbitrary to cap the limit there. Where would you put the limit?
 - They want to take this proposed scope to ADSCOM or Main committee tomorrow. If approved then go to IEC.
 - Question, if IEC does not accept what happens? We would probably need to go for a PAR revision at that time.
 - What about the name of RODE which is Reclosers and Other Distribution Equipment. Should this be changed since we may not be in defined distribution voltage levels?

- The IEEE PES OPnP scope for RODE may be an issue if we do this.
- Discussed that these are located outside of the substation just that the voltage levels are increasing over the years.
- A comment was made that the recloser, as of now needs direct connection testing because the lab Synthetic capabilities don't meet the recloser requirements.
- The committee agrees that RODE does not need to change its name or the IEEE PES OPnP.
- Karla Trost moves that we approve the new scope and title present by the PAR study group and submission of the PAR pending ADSCOM approval. Anil seconded. There were no negatives and only the chair abstention.

b. IEEE C37.63 Overhead, Pad-Mounted, and Submersible Automatic. Sectionalizers

..... Frank DeCesaro

- C37.63 met on Monday and had 12 of 16 members present for the first session with 22 guests in the first session. There were 13 of 16 members present with 33 guests in the second session. Quorum was met for both sessions.
- C37.63 Draft 3 just completed SA ballot #1 on Sunday, April 16th.
 - 77% of ballots returned therefore meeting the 75% minimum requirement.
 - There was an 81% approval rating exceeding the 75% minimum requirement.
 - A total of 218 comments were received.
 - The chair worked on the 102 comments that were received prior to Friday, April 14th for the working group to discuss today.
 - All the technical comments were discussed. All remaining plus the other 116 comments will be worked on during online meetings between now and the fall meeting in San Diego.

c. IEEE C37.68 Distribution Controls Paul Found

- 37.68 met Tuesday afternoon. 13 of 16 members were present and 29 guests.
- The task for the meeting was to review ballot 3 (re-circulation 2) comments and determine comment resolution for 16 of the 33 comments received.
- The remaining 17 were agreed to be handled by the CRG (chair and secretary) and will be incorporated into the draft.
- An ad-hoc group was formed to complete some tedious tasks:
 - review the SSAO clause for additions which may be needed.
 - review the figures, comments, and test lab inputs.
 - fully redraw two figures
 - Our plan is to go to ballot 4, summer 2023.
 - The need for a fall meeting remains to be seen.
- The plan is to go to a fourth ballot during the summer. Getting close to the finish line to do this.

- d. IEEE C37.74 Subsurface, Vault, and Pad mounted Switchgear. Kennedy Darko
 - Met in 2 sessions. Had quorum for both sessions. They had 6 working group meetings in between the Fall meeting and today.
 - Reviewed all the action items proposed by ad hoc groups.
 - Cable charging has no good reference standard. Ones looked at are IEEE 1247, C37.60, C37.62, and C37.63. The ad hoc group is reviewing all of these.
 - There was much conversation regarding restrikes. The ad hoc group will get together and review comments received.
 - Touch potential referenced IEEE 592 and tests required and applicability to C37.745 equipment. The ad hoc committee will take the comments and keep acting.
 - Visible break work was well received. Working group members will evaluate the information provided and
 - Pre-stress voltage for partial discharge. The ad hoc will go back and come back with recommendations.
- e. IEEE C37.75 Enclosure Integrity Anil Dhawan
 - No meeting was held. C37.75 was completed, and the third circulation ended on April 13th and resolved the comments. The chair thanks the WG for their contributions and Karla Trost for her special assistance.

9. Task Forces and Discussion group

- a. Recloser interface Discussion Group Mark Feltis
 - 18 people were present.
 - The group decided to end its work after 5 and a half years.
 - There was not a compelling reason to continue this. It resulted in a lot of good information which has been communicated and stored in past minutes.
 - Ian Rokser and Chris Ambrose were especially thanked for their assistance to the leader of this discussion group.

10. Liaison Report

- a. T&I representative from RODE Alex Cochran
 - Alex Cochran was not here the report was presented by Caryn Riley.
 - Met today since they requested previous to move to Wednesday morning's last session before lunch so all subcommittees have their members in attendance.
 - Received reports from two active task forces. 200 % overvoltage work will be a white paper.
 - Recommended pd testing for solid dielectrics.
 - There were questions about pre-stress level which will be in the paper.
 - If you have aux or control across the open gap it could see the 200% overvoltage for an extended period of time. You need to be aware but no recommended testing procedure.
 - Aging switchgear aging is planned to be published in January 2024.
 - T&D switchgear special applications group. Mike Christian from ABB is taking it over and will put a survey out to try to get list to limit the special applications since there are many.
 - CIGRE update was received.
 - SCATE is an IEEE working group to create a framework for Supply Chain and Asset Traceability for Electric (SCATE). May be a paper or guide output, not sure yet.

- Hybrid circuit breaker subject, physical resilience, further influence of renewables on switchgear. Raw materials at end-of-life switchgear.
- QR code identifies 10 different items on the list cables, transformers, joints, circuit breakers, reclosers, and fault interrupters.

11. Items of Discussion for RODE Subcommittee

a. ADSCOM – Removal of C37 Switchgear from scope C57.12.28/C57.12.29 Karla Trost

- The transformer committee started work on these documents. Switchgear has a disagreement with some changes that had been made and therefore C37.75 was created. Early in 2023 we became aware that transformers were going for revision. The switchgear committee was not mentioned as a co-sponsor. We were told that was just an oversight. We were removed as a co-sponsor but not the scope. We had correspondence that when the PAR was being written we were requested to be removed from the scope.
- Karla Trost moves that the RODE chair make a request to ADSCOM to have Pad mounted switchgear removed from C57.12.28/c57.12.29. Seconded by Brendan Kirkpatrick.
 - Discussion held. Karla inquired if other Switchgear groups have concerns and did not appear to have. The transformer group draft made changes that do not agree with what we did in C37.75.
 - It was the chair’s personal opinion that we should have a clean break.
 - One commenter stated their company builds both types of equipment. Now there are competing standards and what do they do? The IEEE program manager stated that it is up to the manufacturer to determine which standard to use. The commenter agrees with a clean break.
 - Will C37.75 as it gets written get away from references to these. Karla Trost mentioned When it comes time to revise they will need to review the latest version and determine if they want to redefine directions. Also, remember C37.75 includes control enclosures.
 - No negatives and two abstentions.

12. New RODE Chair and Officers

a. New Chair of RODE Subcommittee..... Travis Johnson

- The chair announced that his term is ending at the end of this week. The new RODE chair appointed to lead RODE by the Switchgear chair is Frank DeCesaro.

b. New Vice-Chair of RODE Travis Johnson

- A request for volunteers to become the new RODE Vice-chair was made. No volunteers were received. The new chair will contact members between now and the Fall meeting to find someone that will accept this. An announcement will be made via email when the position when filled.

c. New Secretary of RODE Travis Johnson

- A request for volunteers to become the new RODE secretary was made. No volunteers were received. The new chair will contact members between now and the Fall meeting to find someone that will accept this. An announcement will be made via email when the position when filled.

d. Frank DeCesaro thanked Travis Johnson for leading RODE the past few years especially through the Covid-19 years. The working group members gave Travis a standing ovation.

13. Next Meetings..... Travis Johnson

- Fall 10/8/2023 through 10/13/2023: San Diego, CA Catamaran Resort

14. Adjourned at 5:07 PM

RODE April 19, 2023 Attendance

Member Status	First Name	Last Name	Affiliation	Attended 04/19/2023
Member	Edwin	Almeida	Southern California Edison	
Member	David	Beseda	S&C Electric Co.	
Member	Christopher	Borck	Eaton's Power Systems Division	
Member	Kennedy	Darko	G&W Electric Co	
Vice-Chair	Frank	DeCesaro	DeCesaro Consulting Services	
Member	Anil	Dhawan	ComEd	
Member	Mark	Feltis	Schweitzer Engineering Laboratories, Inc	
Member	Paul	Found	BC Hydro	
Member	Jeffrey	Geiger	ABB (Thomas & Betts)	
Member	Christopher	Hastreiter	Eaton Corp	
Member	Harold	Hirz	G&W	
Member	Rahul	Jain	S&C Electric Company	
Chair	Travis	Johnson	Xcel Energy	
Member	Brendan	Kirkpatrick	Southern California Edison	
Member	Al	Pruitt	The Durham Company	
Member	Larry	Putman	Powell	
Member	Caryn	Riley	Georgia Tech/NEETRAC	
Member	Ian	Rokser	Eaton Corp	
Past Chair	Francois	Soulard	Hydro-Quebec	
Member	Karla	Trost	G&W Electric	
Member	Nenad	Uzelac	G&W Electric	