

RODE Meeting Minutes

October 14, 2021 – Virtual Meeting Reno, NV



Chair: Travis Johnson

Vice-Chair: Frank DeCesaro

Secretary: TBD

Meeting Agenda

1. **Call to Order @ 3:46 PM CST Travis Johnson**
 - a. Chair stated that this session will be recorded unless anyone had issue with that. No objections were raised.

It was commented that the recording needs to be destroyed after the minutes are completed. .
2. **Introduction of Members and Guests Travis Johnson**
 - a. Introduction of members and guest was via the Teams Chat feature.
3. **Call for patents..... Travis Johnson**
 - a. Doug Edwards stated that we do not have to display the patents and copyright slides since everyone had to acknowledge that they read them at registration for the conference.
 - b. The Chair inquired if there were any known copyright or patent concerns. No one raised an issue.
4. **Virtual attendance and Quorum Check..... Frank DeCesaro**
 - a. RODE has a total of 25 actives members (Quorum is met at 50%+1 members)
 - b. Roll call of members was verbally performed. There were twenty members present representing quorum. (Note: This number was changed to twenty-one members present after the meeting when it was noted that Caryn Riley, who is a RODE member was present but not called out.
5. **Procedure for the virtual meeting Travis Johnson**
 - a. Use chat for identification.
 - b. Will use unanimous consent for any votes that need to be taken.
6. **Approval of the Agenda Travis Johnson**
 - a. It was noted that the reference to standard C37.06 in the agenda is incorrect. It should be referencing C37.100.6. Correction was made.
 - b. Karla Trost moved to approve the agenda as amended. Seconded by Francois Soulard.
 - c. No objections so agenda is approved.
 - d. It was later noted that agenda item 7 should be corrected to state Spring of 2020 not Fall of 2020.
 - e. Francois moved to approve the new correction in the agenda. Caryn Riley seconded.
 - f. No objections to this second amendment were voiced therefore it is approved.
7. **Approval of Minutes of Spring 2020 Meeting Travis Johnson**
 - a. <https://www.ewh.ieee.org/soc/pes/switchgear/minutes/2021-1/S21RODEmiREV0.pdf>
 - b. Line 6 Needs to correct Anil Dhawan's name in the minutes. There is no h.
 - c. Need to change item 7A to say Fall of 2020.
 - d. In item 6 it says C37.06 should be C37.100.6
 - e. A comment was received that a narrative with names is not a good best practice for minutes. Chair asked if the working group wishes that the minutes are cleaned up to remove them. The working group were ok with not cleaning up the narrative. They did comment that they expected names to be included for assignments.
 - f. Motion to accept as amended by Francois Soulard was seconded by Karla Trost. No objections or abstentions so recorded as amended.

8. External Project Approval Discussion Group (EPAG) Presentation Doug Edwards

- a. A presentation was projected to the working group.
- b. This is a task that is increasing. There were eight or nine to review at this meeting.
- c. A motion will be presented at tomorrow's main committee meeting. The intent of this presentation is to give a heads-up ahead of time.
 - These proposals come from IEC, NEMA, other IEEE groups. The Switchgear committee does not have a good process in place to handle these. There is a need.
 - This proposed group is going to be coined EPAG Externally Project Approval Group comprised of sub-committee chairs and other ex-official subcommittee members. They will meet regularly
 - Type path of these PAR is from the PES Tech Council EPM.
 - It was requested that the slides be sent out to the RODE subcommittee tonight to allow review.
 - There were five questions
 - Openness – like any other group for anyone to drop into. Announced with an agenda sent out to the Switchgear participants.
 - Who would coordinate with external PAR submitter? The coordination would be delegated to the subcommittee.
 - How might details be provided in advance of EPAG meeting? Agenda
 - How to prevent “rogue” Working group? – Would be resolved with support of IEEE Staff.
 - Are there other PES groups doing this? No, Switchgear will be a leader trying to set this up.
- d. The chair sent these slides out during this meeting.

9. Working Group Report

- a. IEEE C37.63 Overhead, Pad-Mounted, and Submersible. Automatic Sectionalizers Frank DeCesaro
 - The working group met on Monday, October 11, 2021 at 3:45 PM. There were twelve members, and seventeen guests present.
 - The chair made a request for someone to step up as secretary for this working group. There were no immediate volunteers. The chair will work with members off-line between meetings to find one.
 - The working group reviewed C37.63 (Draft 1.3) during the meeting. Several action items were assigned to WG members to be completed and submitted to the chair by the end of the year.
 - The work needed to be completed for this meeting was achieved and the second working session was not needed.
- b. IEEE C37.66 Capacitor Switches Harry Hirz
 - The WG met on Wednesday, October 13, 2021 in the morning. There were eight members and zero guests.
 - The recirculation ballot, which was submitted on October 11, 2021, was discussed. Balloting will be completed on October 21. The WG had turned the only negative into a positive therefore they do not expect to receive issues.
 - Barring receiving unexpected comments then the next step is for IEEE submit the standard to REVCOM.
 - The WG is creating a PAR extension request in case there is a delay.
 - The goal is to get this standard on the agenda for the last RECOM meeting this year. If there are not comments received on this recirculation, then the standard should be approved before its expiration date.

- c. IEEE C37.68 Distribution Controls Paul Found
 - The WG met on Tuesday, October 12, 2021. There were 20 members, and nineteen guests present
 - The WG applied for a two-year PAR extension to December 2023.
 - The WG are working through three main actions
 - Will determine some IEC equivalency to C37.90 references
 - Review the document for other public accessibility design requirements.
 - Consider temperature range of controls. Not stipulate production testing at temperature but design testing.
 - The plan is to distribute draft 3.1 to the working group in early November for a working group vote. Then submit for an SA ballot in January of 2022 to obtain comments by the spring meeting.
- d. IEEE C37.74 Subsurface, Vault, and Pad mounted Switchgear. Kennedy Darko
 - Sessions were held on Monday, October 11, 2021 and Tuesday, October 12, 2021. There was one request for membership.
 - No issues for copy rights and patents were raised.
 - The PAR was reviewed .
 - The WG is looking into harmonization with C37.100.1-2018 and several standards. They are concentrating on three areas. These are Harmonization, Editorial, and Technical. Three taskforces were established for these three areas.
 - The Second session had each taskforce meet.
- e. IEEE C37.75 Enclosure Integrity Anil Dhawan
 - The WG met on Monday, October 11, 2021. There were fifteen guests and fifteen members. 15.
 - Discussion on severe service conditions. Recommend IC 68?
 - New action is submersible definition to be included into the document.

10. Task Forces and Discussion group

- a. Recloser interface Discussion Group Mark Feltis
 - This discussion group met on Tuesday, October 12, 2021. 12. A good sized group was in attendance.
 - The DG addressed an action item from last spring. What is the goal for standardizing on a recloser interface?
 - Feedback from utility members was encouraging. It has challenges with variation of equipment and requirements.
 - The DG consensus was that a report should be written and presented to RODE at the spring 2021 switchgear meeting. The report will be written in November to have it reviewed and out by spring meeting.
 - There was also a consensus agreement that a technical paper for the consideration of control selection would be appropriate in the future. This will be discussed next spring regarding what it details it should include.
 - If a technical paper is decided, then does the group need to change from a discussion group?
 - If it stays as a discussion group there is not a time issue to meet.
 - In the past similar tasks worked by creating a task force. A task force may have about six months duration, but the DG was not sure at this meeting. The chair will inquire about this.
 - If a guide is desired then it would need to go to a working group.

11. Liaison Report

a. T&I representative from RODE Nenad Uzelac

- The Technology and Innovation Subcommittee on Monday, October 11, 2021 with about forty people in attendance.
- Reports from three on-going taskforces were discussed
 - 200% switchgear open gap voltage
Some modeling was performed. They will follow up with a questionnaire and get back with better numbers by next meeting. Will be presented in a paper.
 - End of life of switchgear
Interesting and challenging. Have six members and try to solicit up to fifteen outside of this group. Three segments: Aging of switchgear, condition assessment, and asset management.
 - Special application of switchgear
Such as arc furnace. Draft targeted for next spring. RODE does not have input into this special application of the switchgear currently.

Do any utilities want to help provide answering a survey.

12. Items of Discussion for RODE Subcommittee

a. Definitions for Submersible, Temporary and Prolonged Immersion..... Travis Johnson

- In spring C37.75 and C37.68 developed a definition for submersible, Temporary immersion, and prolonged immersion. The best definition was decided to be from the on-line dictionary and tied to C57.12.32-2019.

The taskforce decided to use this definition for submersible. Standards can write this in or reference C37.57.12.32-2019 or C37.62-2020. The taskforce felt that using this definition will make the temporary immersion and prolonged immersion definitions not needed.

The task force drafted a Normal Service condition and a more severe condition for RODE to adopt for C37.68, C37.75, and future standards.

It is recommended to attach the Task group report to the RODE meeting minutes to allow them to be referenced in the future.

- A question was raised on whether this should be mandated by RODE to be included in standards?

A comment stated we should just put this out there and see if the working groups want to include it. Some standards will go out for balloting before spring, and we will get feedback from the balloters.

The chair will send these definitions out to the working group chairs and get feedback.

- Submersible - Constructed to be successfully operable when submerged in water under specified conditions of pressure and time.

b. Update on Visible Break Travis Johnson

- Visible Break - An insulating gap between conductors that can be visually verified.
- Definition approved by ADSCOM Fall 2018, Implementation is left to working groups
- The chair will send this definition out to the working group chairs informing that they can use this for consideration in their standard.

- Nenad Uzelac stated that there was a draft of the test procedure created by the visible break group but not incorporated that is available to review.
- A question was raised regarding how does this definition get into the IEEE on-line dictionary? The chair will reach out to the IEEE to ask this.

c. Review and Revise scope for Discussion Group on Recloser Interface Travis Johnson

- No action is needed at this time.

d. Removal of C37.74 from the Scope of C37.100.6..... Travis Johnson

- Due to typo the wrong standard was contacted. This item is still open and will be followed up on.

e. Discuss PAR change for C37.74..... Travis Johnson

- During the harmonization review of C37.74, C37.62, and C37.100.1, if there are conflicting ratings and you have an apparatus in the entity which standard rating is followed?
 - One comment is that you use the standard which is the lowest common denominator. It was commented that right now the dielectrics of the IEEE 386 interfaces are the weak link and must be tested higher than they are designed for. The short circuit rating differences were also called out. IEEE 386 is not the only area of conflict issue. C37.74 as a group needs to have a discussion and recommendation to RODE.
 - A comment was made that this will be a major technical change in the standard. As many people should participate in C37.74 because in the end it will affect everyone.
 - Another comment was that you cannot separate a termination failure from a switchgear failure unless you have replacement bushings on your switchgear.
 - One utility infrared tests all elbows on their system every year to check on their gear.
 - C37.74 is up to 38 kV. The IEEE 386 standard is up to 35 kV.
 - The conversations continued around the purpose of C37.74 as a standalone document vs an overarching document. The C37.74 WG will have the conversation and come back to RODE with a recommendation

f. Working group feedback request for C37.100.1 on testing and tolerances

- Frank will reach out to the WG chairs regarding this task.

13. New Officer

New Secretary..... Travis Johnson

Chair made call for a secretary.

14. Next Meetings..... Travis Johnson

Spring 2022 (April 17-21): Disney Orlando, FL

ATTENDANCE

Member Status	First Name	Last Name	Affiliation	Attended 10/14/2021
Member	Edwin	Almeida	Southern California Edison	X
Member	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	X
Member	David	Beseda	S&C Electric Co.	X
Member	Antone	Bonner	PAS Consulting	X
Member	Christopher	Borck	Eaton's Power Systems Division	X
Guest	Dan	Busilan	Dominion Energy	X
Member	Kennedy	Darko	G&W Electric Co	X
Guest	Stacey	Davies	Siemens	X
Vice-Chair	Frank	DeCesaro	DeCesaro Consulting Services	X
Member	Anil	Dhawan	ComEd	X
Guest	Edgar	Dullni	retired	X
Guest	Doug	Edwards	Siemens Industry, Inc.	X
Guest	Assian	Ekpoudom	Southern States LLC	X
Member	Mark	Feltis	Schweitzer Engineering Laboratories, Inc	X
Member	Paul	Found	BC Hydro	X
Guest	Francisco	Guzman	Southern California Edison	X
Guest	Christopher	Hastreiter	Eaton	X
Member	Harold	Hirz	G&W	X
Member	Rahul	Jain	S&C Electric Company	X
Chair	Travis	Johnson	Xcel Energy	X
Guest	John	Kaminski	Siemens	X
Member	Brendan	Kirkpatrick	Southern California Edison	X
Guest	Ryan	Kowdley	Pacific Gas & Electric	X
Guest	Robert	Lau	nVent Hoffman	X
Guest	Colby	Lovins	Federal Pacific	X
Member	Donald	Martin	G&W Electric Co.	X
Guest	Abraham	Martinez	ABB	X
Member	Peter	Meyer	S&C Electric Company	X
Guest	Ashley	Moran	IEEE Standards Association (IEEE-SA)	X
Guest	Christopher	Morton	Powertech Labs Inc.	X
Guest	Stephen	Pell	Siemens	X
Member	Larry	Putman	Powell	X

Guest	Caryn	Riley	Georgia Tech/NEETRAC	X
Guest	Grant	Ringham	BC Hydro	X
Member	Ian	Rokser	Eaton Corp	X
Guest	Archana	Sadhanala	Hubbell Power Systems	X
Past Chair	Francois	Soulard	Hydro-Quebec	X
Member	Karla	Trost	G&W Electric	X
Member	Nenad	Uzelac	G&W Electric	X
Guest	Xin	Zhou	Eaton	X