

RODE C37.75 Switchgear Enclosure Integrity Working Group Meeting Minutes

April 13, 2022 – Orlando, FL



Chair: Anil Dhawan

Minutes taken by David Beseda

Secretary: Karla Trost

Meeting Agenda

- 1. Call to Order** Karla Trost
The meeting was called to order at: 8:01AM.
- 2. 6.3.2 Call for Patents/ Copyright** Karla Trost
The patent and copyright slides were shown.
- 3. Introduction of Members and Guests**
- 4. Attendance and Quorum Check** Karla Trost
There were 15 people present. (7 of 17 Members, 8 guests)
Quorum was not achieved.
- 5. Approval of Agenda** Karla Trost
No Quorum, so agenda not approved.
- 6. Approval of Previous meeting minutes** Karla Trost
<https://www.ewh.ieee.org/soc/pes/switchgear/minutes/2021-2/F21RODEa6REV0.pdf>

No Quorum, so minutes were not approved.
- 7. Review of Action Items - All completed**
 1. Definition of Submersion: K. Trost to update once definitions are reviewed and approved at RODE.
 2. It is recommended to add a Coastal and Non-Coastal environment for the Submersible columns. D. Beseda will update the tables in the draft to this recommendation.
 3. A. Dhawan lead, Mike Whitney, Travis Johnson to review the requirements and applicability for QUV testing.
 4. The document will be sent out for WG review once the action items are completed. K. Trost
- 8. New Items:**
 1. Review the results of the Working Group. Review and resolve comments.

- (1) Reviewed the results – the chair and secretary proposed that 39 editorial/general comments which are clearly acceptable, acceptable with slight revisions, or not within the scope/intent of the document will be resolved by the Chair and secretary, and technical comments would be addressed in the group here and implemented after the meeting. Those present were in agreement.
- (2) Technical comments review:
- (a) Section 3.1/Line 311 - should “distribution” be removed?
 - (i) **Comment Rejected.** “Distribution” is clearly in scope from PAR, and is acceptable
 - (b) Section 4.1.1/ Line 343 – Normal Service Conditions - Suggested that manufacturer shall define appropriate service conditions and the control shall pass all applicable design tests from section 6 in this standard.
 - (i) **Comment accepted.** This adds clarity to the required design tests.
 - (c) Section 4.2/Line 5.3.4 and 5.5.5 – Applicability Table – There were two lines (sections) where no applications were marked: Enclosure Color and Insulating Fluid Resistance
 - (i) **Comment accepted for Enclosure Color.** Enclosure color should be applicable for pad mounted (coastal/non-coastal) and pole mounted (coastal/non-coastal).
 - (ii) **Comment accepted for Insulating Fluid Resistance.** Insulating fluid resistance was deemed applicable across all enclosures in the table.
 - (d) Severe Service Conditions/ Line 344 – Are there more severe service conditions that should be considered beyond exposure to chemicals?
 - (i) **Comment accepted with revisions.** Changed title for 4.1.2 – “Special (Unusual) Service Conditions” to align with C37.100.1. Group modified wording on line 347 in 4.1.2 – “For these and other special service conditions, design requirements and/or...”
 - (e) Comments on applicability table for equipment (Table 1) controls (Table 2).
 - (i) Table 1 and Table 2, Galling (5.1.4) – comment suggested it should be applicable to more than just coastal applications.
 - 1. Comment accepted with the following revisions:**
 - a. Mark galling section as applicable for all applications in the tables.
 - b. In Section 5.1.4 – Modify line 382 such that clause 4.1 of C57.12.29 is a requirement for coastal and submersible, and is recommended practice for non-coastal.
 - (ii) Impact testing for coastal (5.5.4)
 - 1. Comment rejected.** Not applicable to coastal testing because there is a substrate that should not exhibit rust.
 - (iii) Thermal Cycle Test (5.5.13) – commenter recommended thermal cycle test everywhere.
 - 1. Comment Rejected.** The thermal cycle test should not be a requirement. This test was originally only called out in 57.12.32
 - (f) Section 5.3.3/ Line 406 - Touchup process – Suggestion to add more detail on how to demonstrate that touchup meets performance requirements
 - (i) **Comment Rejected.** No changes to address the comment in C37.75, but commenter may take the suggestion to transformer group.
 - (g) SCAB Testing / Line 431 - Suggestion to restrict only to non-coastal environments

- (i) Comment Rejected – Group determined it was appropriate to continue to include with both coastal and non-coastal for submersible applications.
- (h) Section 5.5.14/ Line 458 - Suggestion to include “change in production facility location” to the re-test.
 - (i) **Group accepted with a revision** – “...these coating substrate tests shall be repeated whenever the painting material, painting process, substrate material or production facility location is changed.”
- (i) Clause 7/ Line 555 - Labels – suggested the durability requirement of labels be applied to enclosures
 - (i) **Comment Rejected.** C37.75 provides reference information, but will not call out longevity requirements in the document. Those requirements should reside in the equipment standards.

2. Vote on sending the document to official Ballot.

- (1) Did not vote on sending the document to ballot due to lack of quorum.
- (2) Anil and Karla will pull together editorial changes as well as the technical changes discussed here.
- (3) Karla and Anil will have a virtual meeting of the working group to vote on going out for ballot.

9. **Next Meeting** – The next meeting will be held virtually – Monday, May 2, 2:00pm Central Time

10. **Adjournment** – The meeting was adjourned at 9:19 AM.

Annex 1: Attendance

Role	First Name	Last Name	Company	4/13/2022
Chair	Anil	Dhawan	ComEd	Ex
Member	Edwin	Almeida	Southern California Edison	EX
Member	Chris	Ambrose	Federal Pacific (Div. of Electro-Mechanical Corp.)	X
Member	David	Beseda	S&C Electric Co.	X
Member	Michael	Culhane	Eaton	EX
Member	Katherine	Cummings	G&W Electric	X
Member	Mark	Feltis	Schweitzer Engineering Laboratories, Inc	X
Member	Paul	Found	BC Hydro	EX
Member	Travis	Johnson	Xcel Energy	X
Member	Brendan	Kirkpatrick	Southern California Edison	EX
Member	Robert	Lau	nVent Hoffman	EX
Member	Benson	Lo	Toronto Hydro	EX
Member	Al	Pruitt	The Durham Company	X
Member	Caryn	Riley	Georgia Tech/NEETRAC	
Member	Francois	Soulard	Hydro-Quebec	Ex
Member	Joseph	Wisnewski	UL LLC	EX
Secretary	Karla	Trost	G&W Electric	X
Guest	Stacey	Davies	Siemens	X
Guest	Frank	DeCesaro	DeCesaro Consulting	X
Guest	Jeffrey	Gieger	Thomas & Betts	X
Guest	John	Kapitula	ABB	X
Guest	Roberto	Olivares	Siemens	X
Guest	Ian	Rokser	Eaton Corp	X
Guest	Oswaldo	Kaschny	Siemens	X