

C37.63 Meeting Minutes

October 17, 2022 – Hilton Burlington Lake Champlain, Burlington, VT



Chair: Frank DeCesaro

Vice-Chair: Open

Secretary: Karla Trost – for Chris Ambrose

Meeting Agenda

1. Call to Order

- a. Meeting was called to order at 8:04AM
- b. The first session was paused for break at 9:40AM. The second session was called to order at 10:15AM.

2. Introduction of Members and Guests

- a. Self-introduction of members and guests was completed.
- b. Of 18 Members, 10 were present with 15 guests in the first session.
- c. Of 18 Members, 10 were present with 13 guests in the second session.

3. Patent Slides for Standards Development Meetings

- a. The patent slides were shown.
- b. Call for any patent claims resulted in no responses.

4. IEEE Copyright Policy for Participants in IEEE Standards Work

- a. The copyright policy slides were shown. There were no responses.

5. Membership and quorum Check

- a. Voting Membership List displayed. Will be used for voting

6. Approval of the Agenda

- a. No objections.
- b. F. Soulard motion to approve, P. Agliata seconded. No disapprovals. Motion passed.

7. Approval of Minutes of last meeting

- a. Minutes were previously published on ImeetCentral ([S22C3763miR2.pdf](#)) and the IEEE ([S22RODEa2REV0.pdf](#)) Switchgear site.
- b. No Objections to the published minutes therefore they are accepted by consensus.

8. Review of C37.63D2

- a. Discussion on Clause 7.21, Ice Loading. This had been removed from draft and approved at our April 14, 2022, working group meeting. It has been reinserted in draft 2. Requires working group vote to keep the reinsertion in.
 - F. Soulard moved to reincorporate clause 7.21. T. Johnson seconded. No objections, No abstentions. Motion passed.
- b. Review of working group comments received for C37.63D2
 - Comment #5 (Line 412, 4.1.2)
 - 3 meters from the base (shown in 37.62) vs 3 meters (shown in 37.60) from the top:
 - Taking the measurement from the base is consistent (different pieces of equipment have different heights)
 - Water will build from the base of the vault, not the top of the switchgear.
 - One user expressed that due to the different sizes/ heights of equipment, 3m from the top (as a maximum) is better.
 - Discussion of test procedures (full depth of water or partial water with pressure.) Pressurizing requires that you measure from the top of the equipment.
 - For information - C37.60 and C37.62 are from the base. The current draft versions of C37.68 and C37.75 are from the top.
 - I. Rokser made a motion – align measurement of 3m depth with C37.62. Seconded

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- by X. Zhou. 7 approved, 2 against, 0 abstentions. Motion passed.
- Commenter noted that C37.62 introduced a duration (not to exceed 10 days) and C37.63 does not include a duration.
 - C37.60 does not include a duration.
 - Discussion preferred that we standardize on duration.
 - Noted that IEEE 386 usual service conditions refer to a requirement for intermittently or continuously submerged in water at a depth not exceeding 1.8 m (6 ft).
 - Comment about using IEC 60529 IP68.
 - T. Johnson made a motion to Adopt the time limitation of 10 days. F. Soulard seconded. 8 approved, 0 against, 0 abstentions. Motion passed
 - Alignment with C37.62 (Indoor/Outdoor)
 - C37.60 is only “outdoor”. C37.62 calls out 37.100.1 3.2 which applies the submersible addition to both indoor and outdoor.
 - Discussion on if Lines 411 and 412 (with the changes above) should be copied into 4.1.1 or moved to 4.1. If we also moved 413 and 414 to 4.1, the entire clause could be simplified.
 - T. Johnson made a motion to remove 4.1.1 and 4.1.2 and consolidate it under 4.1 keeping lines 411-414 with the changes previously approved. F. Soulard seconded. 8 approved, 1 against, 0 abstentions. Motion passed.
 - Comment #40 (Line 412, 4.1.2) regarding inclusion of a submersible design test.
 - Suggestion to have an ad hoc group propose a modification of C36.62 7.27 that would be suitable for C37.63.
 - It was pointed out that in C37.62 the liquid refers to the “water head” in 4.1 but C37.63 does not specifically call out water.
 - F. Soulard made a motion to include 7.27 from C37.62 into C37.63 with appropriate modifications. T. Johnson seconded.
 - T. Johnson proposed an amendment to the motion to change FI to Sectionalizer and “trip” to “operation”. The amendment was accepted.
 - New motion reads: to include 7.27 from C37.62 into C37.63 with appropriate modifications of change FI to Sectionalizer and “trip” to “operation”.
 - 9 approved, 0 against, 0 abstentions. Motion passed.
 - Comment #50 (Line 435, 5.1) Regarding fault making current as a mandatory rating.
 - Discussion on if all sectionalizers can break load.
 - If all can break load, this also impacts Table 9.
 - It was pointed out that in 5.14 that only sectionalizers with independent closing speeds can have a fault-making current rating.
 - C. Bork motioned that this commenters recommendation (Move L) “Rated fault-making current” to the list of mandatory ratings” be rejected. C. Morton seconded. 9 Approved, 0 against, 1 abstention. Motion passed.

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- Comment #60 (Line 821, 7.2.6.1) Regarding changing the duration to 60 seconds as the standard.
 - Chair proposed changing the wording to “The external insulation of outdoor switchgear shall be subjected to wet withstand tests under the standard wet test procedure given in IEEE Std 4.”
 - It was noted that line 821 has incorrect wording. IEEE Std 4 does not include “wet”. C37.63 would either need to reference the table / row and year of IEEE 4 being referenced or modify the wording to “standard test procedure”. In addition, IEEE Std 4 also includes a duration by the way it is written.
 - 11.2 following the precipitation conditions for the standard test procedure.
 - Request for an ad hoc to propose a solution to this comment. F. DeCesaro, C. Riley, T. Johnson will work on this in the next month.
- Comment #63 (Line 708, 7.1) regarding change to order of testing (partial discharge listed prior to insulation (dielectric) tests in Table 5.
 - Note - This would also impact one of the footnotes for group 1. The group 1 footnote would be removed and replaced by the group 1 footnote.
 - K. Trost made a motion to: show the group 1 order Partial Discharge, Insulation (dielectric) tests, Measurement of the resistance of circuits, then temperature rise test with a footnote requiring that the tests be performed in the order listed. T. Johnson seconded. 10 approvals, 0 against, 0 abstentions, motion passed
 - This also addressed comment #64 and #65.
- Comment #66 (Line 711, 7.1) suggested that “Note 2” be modified.
 - Note 2 does not exist. Commenter agreed issue has been corrected.
 - This also impacts Comment #67.
- Comment #69 (Line 903, 7.5.5) Commenter suggested deleting clause 7.5.5 due to Clause 13 conflict with C37.100.1 Clause 7.7.5. (200% vs 20%)
 - Discussion pointed out that C37.63 7.13 references the 200% test value and therefore it is not necessary to reference C37.100.1 in Clause 7.13.
 - Suggestion that it may be possible to replace the text in 7.5.5 with a reference to 7.13.
 - It was noted that the published version of 37.63 uses the 200% value for post-test condition approval. The change to reference C37.100.1 resulted in a reference to 20% which was not necessarily intentional.
 - It was suggested that an ad hoc be formed to review and propose a resolution within a month: C. Morton, C. Borck, F. DeCesaro, and H. Hirz. (IEC 62271-1, Clause 7.4.4.2 and 7.4.4.3 may be a reference.)
- Editorial Comments provided to the Working Group for pre-review approved as sent for review.

9. Other Business?

- a. No other business

10. Next Meeting

- a. Will be held on-line to review the work of the ad hoc groups and vote to proceed to ballot.

11. Adjournment

- a. F. Soulard motioned to adjourn. Agreement by all present.

C37.63 Working Group 10/17/2022 Attendance

Role	First Name	Last Name	Name	10/17/2022
Member	Pete	Agliata	Pete Agliata	X
Member	Christopher	Borck	Christopher Borck	X
Guest	Kelsey	Bush	Kelsey Bush	X
Guest	Kennedy	Darko	Kennedy Darko	X
Chair	Frank	DeCesaro	Frank DeCesaro	X
Guest	Anil	Dhawan	Anil Dhawan	X
Guest	Chris	Ekpoudom	Chris Ekpoudom	X
Guest	Jeff	Gieger	Jeff Gieger	X
Guest	Peter	Glaesman	Peter Glaesman	X
Guest	Christopher	Hastreiter	Christopher Hastreiter	X
Member	Harold	Hirz	Harold Hirz	X
Member	Travis	Johnson	Travis Johnson	X
Guest	Jackie	Kandel	Jackie Kandel	X
Guest	John	Kapitula	John Kapitula	X
Guest	Eric (Gian)	LI	Eric (Gian) LI	X
Member	Christopher	Morton	Christopher Morton	X
Guest	Roberto	Olivares	Roberto Olivares	X
Guest	Larry	Putnam	Larry Putnam	X
Guest	Caryn	Riley	Caryn Riley	X
Member	Ian	Rokser	Ian Rokser	X
Guest	Kirk	Smith	Kirk Smith	X
Member	Francois	Soulard	Francois Soulard	X
Guest	Truett	Thompson	Truett Thompson	X
Member	Karla	Trost	Karla Trost	X
Member	Xin	Zhou	Xin Zhou	X