

C37.21 Working Group
MINUTES OF THE SPRING 2023 MEETING
Sheraton Sand Key Resort, Clearwater Beach, FL
Monday, April 17, 2023, 3:45 PM – 5:30 PM

Attendance:

13 people were in attendance.

This is the first meeting as a Working Group therefore quorum is met.

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A. Call to order

Meeting was called to order by Working Group Chair, Christo Thomas, at 3:45 PM on Monday, April 17, 2023.

B. Introduction of attendees

Complete

C. Approval of Agenda

Agenda was reviewed by WG, a motion was brought by D. Moser (1st), and P. Barnhart (2nd) Agenda was approved by unanimous consent

D. Verbal call for essential patents and reminder against discussing commercial topics

*A link to the IEEE patent policy slides was distributed in the meeting agenda, no patent issues were voiced by the meeting attendees.
Patent Slide was shared in Meeting.*

E. Working group P&Ps and copyright policy

Links to the IEEE-SA approved WG Policies & Procedures and the IEEE copyright policy slides were included in the meeting agenda so that all attendees could review them.

Copy Right Policy Slide was shown during the meeting.

Discussed requirements for what constitutes anti-competitive behavior.

D. Moser (1st), and P. Barnhart (2nd) motion to approve the previous minutes.

Minutes were approved by unanimous consent.

F. Document Status

Current document: C37.21-2017 due to expire 12-31-2027

PAR approved: 2-15-2023, expires 12-31-2027

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G. New Business

Reviewed and discussed the C37.21 draft and received recommendations from the working group on potential changes.

Recommended changes to be considered:

- Review enclosure ratings for common industry use.
- Review requirements due to changes from electro-mechanical systems to digital-style control systems.
- Add requirements to when enclosures can be open.
- Review references for definitions. Including adding the reference to C37.20.10 to Clause 3.1.
- Update definitions of open and enclosed switchboards.
- Consider adding a purpose to the document to clarify the need for the standard. This would require updating PAR.
- Remove 25Hz from Table 1.
- Consider if Clause 5.2 is needed and if so, what testing requirements are needed.
- Change the Relay System to Protective Relay in clause 6.2.1 Surge Withstand Capability (SWC) test.
- Update requirements for clause 6.2.3 Flame Resistance Test
 - Recommendation was made to consider making the included alternate method the primary method.
- Put actual text in for 6.2.2 Rain Test for outdoor control switchboard instead of referencing C37.100.1.
- Consider if switchboards should be required to be labeled as indoor or outdoor.
- Review section 6.2.5.5, the 2-knife test which is not a current method.
- Review sections 7.3 and 7.4 to clarify the requirements for indoor and outdoor switchboards to include differences between enclosed and open switchboards.
- Update 6.2.5 Salt Spray Test to clarify the need for a 600-hour test for both indoor and outdoor.
- Add the requirement below Table 1 (Line 499) that “voltages within switchboard shall not exceed 250V AC/DC nominal inside the switchboard”.

Next Steps

- Role C37.21a amendment into the main standard.
- Update draft based on recommended changes to be voted on in the next meeting.
- Provide a draft for comments to the working group prior to the next meeting

H. Adjourn

The meeting adjourned at 5:35 PM.

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Attendance record:

First Name	Last Name	Affiliation	Role	04/17/2023
Christo	Thomas	Schneider Electric	Chair	✓
Chris	French	Beta Engineering	Secretary	✓
Darryl	Moser	ABB	Member	✓
Clint	Carne	Schneider Electric	Member	✓
John	Kaminski	Siemens	Member	✓
Bryan	Tatum	UL Solutions	Member	✓
Paul	Barnhart	UL Solutions	Member	✓
Matt	Westerdale	Bureau of Reclamation	Member	✓
Alexandre	Pelletier	STACE	Member	✓
Owen	Parks	ABB	Member	✓
Andrew	Truman	Black & Veatch	Member	✓
Ben	Sax	Nashville Electric Service	Member	✓
Randy	Blake	Schneider Electric	Guest	✓

Reported by: Chris French – Secretary