C37.74 Working Group Meeting Minutes

February 10th, 2023 10:00 AM – Virtual.

Chair: Kennedy Darko **Secretary**: Travis Johnson

Meeting Agenda

1. Call to Order **K. Darko**

The meeting was called to order at 10:04AM CST.

2. Call for Patents K. Darko

a. Patent Slides

b. Copyright Slides

No patent or copyright issues were mentioned.

3. Introduction of Members and Guests K Darko

Introductions were entered into the meeting chat.

4. Attendance and quorum check T. Johnson

13 members (of 18) and 1 guest were present at the meeting.
Quorum was achieved.

5. Approval of Agenda K. Darko

Approved by consensus.

6. Approval of Previous meeting minutes T. Johnson

K. Trost – motion to approve minutes as shown.
F. Decesaro – second
Approved by consensus.

7. Action Items K. Darko

I. Quick project schedule review

The chair reviewed the updated schedule, emphasized need to work harder to build buffer into the schedule to avoid PAR extension in the end.

II. Editorial and Technical proposals / reviews draft D1.3

7..7.4.6.2 (Rated fault-making current test with fuses)

- Manufacturer – should only apply to switches where the fuse rating impacts the overall switch rating.
- Discussion on the meaning of "may be deleted" and how the fuse rating impacts the switch rating.
- Understanding the first part allows you to test the two components separately, but if you chose to test them together you "don't have to" perform the peak withstand current test.

- Suggestion to change the language “may be deleted” to “may be omitted.”
- Suggestion to start a new paragraph with “If a switch is tested” for clarity.
- ***Agreement among members***

7.3.3 (Thermal Runaway test)

- A proposal was made to simplify the language to “The means of showing ability to carry rated current may be accomplished by means of a dc resistance test performed per 8.1, comparing the results to the resistance measurements taken before the short-circuit tests. An increase >20% on any phase would require a continuous current test to be performed.”
- ***The members agreed.***

7.7.6 (Thermal Runaway test)

- A proposal was made to simplify the language to “The switch shall be deemed to be capable of carrying its rated continuous current at a stable temperature if the resistance of the continuous carrying circuit measured per 8.1 has not increased >100% of the maximum value measured prior to test 1 through test 6 of 6.4.2.”
- ***The members agreed.***

7.7.4.6 (Fault making test)

- Two proposals were made to allow for the change to reference C37.30.4-2018.
- Option 1:
    i. Fault-making current tests shall be performed in accordance with IEEE Std C37.30.4-2018 (subclause 8.2) except that three closing operations are required on the same specimen. *The interval between the three tests shall not be less than 10 minutes unless the manufacturer agrees to a shorter interval. The DSG can be left closed for at least 5 minutes before opening under no-load conditions to demonstrate that welding of the contacts has not occurred.*
- Option 2:
    i. Fault-making current tests shall be performed in accordance with IEEE Std C37.30.4-2018 (subclause 8.2) except that three closing operations are required on the same specimen.
- In the first Option – change from “can be” to “shall be”
- Discussion about the “5 minutes” in Option 1. A Test lab representative explained why the “left closed” was proposed and where the suggestion for 5 minutes (Fault Close from C37.09) came from. It was noted that in C37.09 that the language was “allowed” which is not read as a minimum time.
- A vote was taken on the inclusion of “*The interval between the three tests shall not be less than 10 minutes unless the manufacturer agrees to a shorter interval.”* ***6 agreed, 4 negative, 3 abstention.***
- A vote was taken on the inclusion of “*The DSG can be left closed for at least 5 minutes before opening under no-load conditions to demonstrate that welding of the contacts has not occurred.”* ***6 Agreed, 5 negative, 2 abstention***.
- A separate proposal was reviewed regarding contact welding:
    i. *The test device shall be opened (no load) following each closing operation to verify that contacts have not welded. Only single attempt at opening is permitted.*
    ii. H. Bannink proposed “After each fault-making current test the device shall be open (no load) at the first attempt.”

iii. The proposal was wordsmithed to be "After each fault-making current test the device shall be opened (no load) on the first attempt." ***12 agreed, 0 negative, 1 abstention.***

5.3 (Temperature rise table)

- Proposal to change the table to use reactive/ no-reactive classification for gases (similar to C37.04). This is to address future introductions of new gases. The Chair asked WG to review and be ready to discuss during the next meeting.

7. Next Meeting: Virtual

9. Adjournment

The meeting was adjourned at 11:30 AM CST.

Attendees:

Role		First Name	Last Name	Company Name	Virtual
Member		Donald	Martin	G&W Electric Co.	
Member		Francois	Soulard	Hydro-Quebec	X
Member		Jeffrey	Gieger	ABB/Elastimold	X
Member		Harold	Hirz	G&W	
Member		Harm	Bannink	G&W	X
Member		David	Beseda	S&C Electric Co.	X
Secretary		Travis	Johnson	Xcel Energy	X
Member		Karla	Trost	G&W Electric	X
Member		Ian	Rokser	Eaton Corp	X
Member		Rahul	Jain	S&C Electric Company	X
Chair		Kennedy	Darko	G&W Electric Co	X
Member		Edwin	Almeida	Southern California Edison	X
Member		Caryn	Riley	Georgia Tech/NEETRAC	X
Member		Stephen	Pell	Siemens	
Member		Grant	Ringham	BC Hydro	
Member		Frank	DeCesaro	DeCesaro Consulting Services, LLC	X
Member		Joseph	Stemmerich	Trayer Engineering Corporation	
Member		Victor	Savulyak		X