C37.74 Working Group Meeting Minutes

January 25th, 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 10:00 AM 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) were present at the meeting.
Quorum was achieved.

5. Approval of Agenda K. Darko

K. Trost motioned for approval of agenda.
I. Rokser - seconded.
Approved by consensus.

6. Approval of Previous meeting minutes T. Johnson

No minutes to approve.

7. Action Items K. Darko

I. Quick project schedule review

The chair reviewed the schedule.

II. Editorial and Technical proposals / reviews draft D1.2

7.6 (Grounding connection test)
It was proposed to add 'The peak current of the first major loop shall be as defined in 5.7 of IEEE Std C37.100.1-2018" to C37.74.

- Question on ampacity of grounding cables was raised and a manufacturer commented that they use (2) 4/0 cables for grounding.
- It was clarified that the existing standard stipulated a symmetric current for short time test.

- A member pointed out the subclause in question refers to the external grounding and not grounding of the DSG internally.
- It was pointed out by another member that the standard specifies a design requirement but doesn't prescribe a validation test.
- A member also pointed out that most of the standards are written in similar faction with no design test requirements and recommended leaving the verbiage in the existing standard unchanged.
- A vote was taken with the following results: 18 yes to reject proposal, 0 no and 3 abstained.

- Power-frequency current measurements (line 1162)
  - Existing standard language describes when to measure the current and that it shall be "essentially sinusoidal and substantially free of energization transients and DC offset currents". It was noted that the way that devices are tested today there is often a DC offset. There were multiple proposals made.
  - May also need to modify the verbiage around "essentially sinusoidal" as that is subjective.
    - F. DeCesaro offered to propose new language around "essentially sinusoidal".
  - Discussion on whether DC offset should have a limit or be left to discussion between lab and manufacturer.
  - Proposal to add "DC offset <20% of symmetrical peak current value is allowed with agreement from the manufacturer if TRV requirements are met." as a new sentence.
  - Proposal change – "substantially free of energization transients and DC offset currents (<= 20%). DC offset >20% is allowed with agreement from the manufacturer if TRV requirements are met." Members were in favor of this new proposal.
- Overvoltage (Cable Charging)
  - Proposal to add language from C37.62 allowing the test lab to protect their equipment.
  - Discussion on the impact of this proposal.
  - Suggestion that this issue be given to the cable charging ad hoc to discuss.

7. Next Meeting: 02/06/2023 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.	X
Member		Francois	Soulard	Hydro-Quebec	X
Member		Jeffrey	Gieger	ABB/Elastimold	X
Member		Harold	Hirz	G&W	X
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	
Chair		Kennedy	Darko	G&W Electric Co	X
Member		Edwin	Almeida	Southern California Edison	X
Member		Caryn	Riley	Georgia Tech/NEETRAC	
Member		Stephen	Pell	Siemens	
Member		Grant	Ringham	BC Hydro	
Member		Frank	DeCesaro	DeCesaro Consulting Services, LLC	X
Member		Joseph	Stemmerich	Trayer Engineering Corporation	X
Member		Victor	Savulyak		