

Instrument Transformers Subcommittee

Working Group for PLC capacitors and Coupling Capacitor Voltage Transformers

Meeting Minutes

May 12, 2020

Virtual meeting

Minutes from the 9:00 AM meeting on 13 May 2020 via Skype hosted by Zoltan.

The Working Group Chair, Zoltan Roman, started the meeting with Mike Craven as Secretary. Introductions were made.

This was the third Skype meeting since the Fall 2019 meeting in Columbus Ohio as a Working Group. There were 18 attendees. No votes were taken requiring a quorum.

The patent notice was made and there were no patent claims. Attendees were notified of new copyright rules.

There was no specific old business. Zoltan began with revising the new Draft 8 at Section 8.3.10 RIV Test: The main points of discussion were:

- Shielding statement should be consistent with 13.5
- Pierre recommended lowering minimum relative humidity to 30%. (from 45% and everyone seemed to concur)
- The measuring standard CISPR is IEC (and 300 Ohm) and NEMA has 4 versions with different impedances. Pierre recommend set only one impedance. Zoltan refers to Table 9 and to comply with NEMA 107 specify impedance.
- Should we take out pre-stress voltage? Andre found references to 1.5 and 1.1 times, but Pierre says not needed. Steve Snyder okay with removal. So remove first bullet under "Procedure:"

On to section 9 Nameplate requirements (p. 54) which was all new and added by Zoltan (through 8.3.15 had been covered in last meeting):

- 9.1.1 Requirements for the coupling capacitor or CCVT: The comments were a) through d) are okay, keep e), j) should be 'nominal' and keep "(mineral or synthetic)"

x) Carrier nameplates (plural), b. Short-time needs to be 60s consistent with 6.6.1

9.1.2 Requirements for the capacitor unit: a) through d) okay, e) not relevant to capacitor unit

9.2 Symbols: No comments.

9.3 Mounting: Added "design is" and there were comments not to specify trap mounting capacity (possible future discussion).

9.4 Certificate of test: change to Routine Test Reports

9.4.1 Requirements for CCVTs: a) through g): Pierre ask about impulse oscillograms which was followed with review of 8.2.6. There was much discussion about g) a. which resolved to number of tests performed. n) is changed to "Identification of test technician"

9.4.2 Requirements for coupling capacitors: to e) add "before and after insulation tests" and f) through i) should match the CCVT section above.

9.5 Safety devices: For these items details will be added from old standard.

9.5.1 Electromagnetic unit potential grounding switch

9.6 Terminals: In .1 High voltage terminal the "Copper terminals..." statement needs updating. In .3 removed "outlined"

We ended the new work at 57 pages. Backtracking some, it was noted:

- 7.12 is to be added with or by consultation with the PSCC.

- Table 5 still needs attention and justification

- Barrett asked about acceptable variances (of i.e. ration limits or d.f.) for the users of the standard who are doing commissioning. He suggests giving values or an explanation. He 'volunteered' to work on it.

- Tom asked about a bibliography. Zoltan refers to the "Normative references" in the beginning of the document. Wagner effect (V vs. F) to consider adding if a bibliography is done.

The plan at this point is to be able to send for balloting after the Fall 2020 meeting. The meeting was adjourned at 11:55.

Submitted by,

Zoltan Roman, WG Chair

October 6, 2020