

# Power Transformer Subcommittee

## Working Group Report

Document #: C57.131  
Document Title: Standard Performance Requirements and Test Methods for Tap-changers

Chair: Craig A. Colopy Vice-Chair: Axel Kraemer  
Secretary: Adam M. Sewell Percent Complete: 90%

Current Draft Being Worked On: 1.1 Dated: March 2022  
PAR Expiration Date: December 31, 2024

Meeting Date: 28 March 2022 Time: 9:30am-10:45am MDT

Location: Virtual Online Meeting

Attendance: Members	<u>24 out of 44</u>
Guests	<u>23</u>
Guests Requesting Membership	<u>Send email to secretary</u>
Total*	<u>47</u>

\* Attendance list for this meeting is shown at end of meeting minutes

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### **Meeting Minutes / Significant Issues / Comments:**

1. Meeting was called to order at 9:45am MDT, March 28, 2022.
2. Call for patent disclosure / review of IEEE Copyright Policy
  - a. No comments made from attendees
3. Quorum Check / Introductions
  - a. Introductions were made by name and affiliation
  - b. 25 members out of 44 were in attendance – QUORUM MET
  - c. Member requests can be sent to ADAMSEWELL@IEEE.ORG
4. Approval of Agenda
  - a. Motion – H.Flores 2<sup>nd</sup>-J.Sewell. No opposition to unanimous approval. APPROVED
5. Approval of minutes from Fall 2021 Virtual Meeting
  - a. Motion – H.Flores 2<sup>nd</sup>-J.Sewell. No opposition to unanimous approval. APPROVED
6. Discussion timeline for this revision
  - a. Current C57.131-2012 expires December 31, 2022
  - b. Par expires December 31, 2024
7. Discussion by A. Kraemer from work session held on March 26, 2022
  - a. 14 members attended work session and went through Draft 1.0 to create Draft 1.1
  - b. Changes were shown to working group and MOTION was made

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- c. MOTION-T.Dauzat, 2<sup>nd</sup>-T.Tillery: Accept Draft 1.1 with changes shown in meeting and keep following notes for joint revision with IEC 60214-1
  - i. Section 6.1.15 Protection against access to hazardous parts - check if there is an equivalent designation in NEMA 250 for IP1X
  - ii. Section 7.2.2 Temperature rise - To be considered in a future joint IEC/IEEE revision. Some discussion is warranted regarding the difference between contact temperatures of OLTC and DETC along with defining contact test temperature methodology to normalize testing. This could include switch orientation, liquid volume and parameters you have to prevent unwarranted advantageous results.
  - iii. There was no objection to unanimous approval of this motion-APPROVED
- d. Discussion about Table 3 values for switching impulse test values
  - i. Current IEEE and IEC standards do not list switching impulse values less than 100kV and for joint revision, switching impulse values will be looked at for less than 100kV. 69kV was a value brought up in this meeting.
- e. Draft 1.1 will be posted on the Power Transformers Subcommittee page. Chair requested all members to review all appendices for comments.
- 8. Next meeting: TBD at Fall 2022 Transformer Committee Meeting scheduled for October 16-20, 2022 in Charlotte, NC, USA.
- 9. Close of meeting
  - a. Meeting adjourned at 10:45am MDT. Motion – J.Sewell, 2<sup>nd</sup> – M.Stank. No opposition to unanimous approval. ADJOURNED.

Submitted by: Craig A. Colopy Date: \_\_\_\_\_

### Meeting Attendance 3/28/202:

Last Name	First Name	Company (Affiliation)	Role
Adams	Kayland	SPX Transformer Solutions, Inc.	Guest
Aldenlid	Jennie	Hitachi Energy	Member
Beaudoin	Jason	Weidmann	Guest
Benzler	Olle	Megger	Guest
Boettger	William	Boettger Transformer Consulting LLC	Guest
Calitz	David	Siemens Energy	Member
Chakraborty	Arup	Delta Star Inc.	Guest
Cruz Valdes	Juan Carlos	Prolec GE	Member
Dauzat	Thomas	General Electric	Member
Dillon	Nikolaus	Dominion Energy	Guest
Dix	Larry	Quality Switch, Inc.	Member

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Last Name	First Name	Company (Affiliation)	Role
Eiarza	Hector	Orto de Mexico	Guest
Faur	Florin	Prolec GE Waukesha	Member
Flores	Hugo	Hitachi Energy	Member
Griesacker	Bill	Duquesne Light Co.	Member
Gustavsson	Niklas	Hitachi Energy	Member
Halcim	Samauy	WEG USA	Guest
Havens-Spillers	Bridget	Ameren Mo.	Guest
Hutchinson	Zachary	East Kentucky Power Cooperative	Guest
Kraemer	Axel	Maschinenfabrik Reinhausen	Vice-Chair
Kurth	Bernhard	Maschinenfabrik Reinhausen	Guest
Lejay	Olivier	Huaming USA Corp.	Member
Matzon	Tom	Xcel Energy	Guest
McCullough	Douglas	Maxima-Hyundai	Guest
Miller	Philip	MLGVY	Guest
Munoz Molina	Martin	Orto de Mexico	Member
Pollaro	Dominic	NASS	Guest
Posadas	Daniel	Prolec GE	Guest
Posadas	Daniel	Prolec GE	Guest
Pruente	John	SPX Transformer Solutions, Inc.	Member
Schindler	Stefan	Maschinenfabrik Reinhausen	Member
Schwartz	Dan	Quality Switch, Inc.	Member
Sewell	Adam	Quality Switch, Inc.	Secretary
Sewell	Jeremy	Quality Switch, Inc.	Member
Sewell	Russ	Quality Switch, Inc.	Guest
Som	Sanjib	Pennsylvania Transformer	Member
Stank	Markus	Maschinenfabrik Reinhausen	Member
Stechschulte	Kyle	American Electric Power	Member
Steineman	Andy	Delta Star Inc.	Guest

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Last Name	First Name	Company (Affiliation)	Role
Szczechowski	Janusz	Maschinenfabrik Reinhausen	Guest
Tanaka	Troy	Burns & McDonnell	Guest
Tillery	Timothy	Howard Industries	Member
Uhlmann	Olivier	Reinhausen Canada	Guest
Washburn	Alan	Burns & McDonnell	Member
Whitehead	William	H2scan Corporation	Member
Whitten	Christopher	Hitachi Energy	Member
Ynui	Andrea	Siemens Energy	Guest
<b>Meeting attendance 3/26/2022:</b>			
Last Name	First Name	Company (Affiliation)	Role
Aldenlid	Jennie	Hitachi Energy	Member
Dauzat	Thomas	General Electric	Member
Dix	Larry	Quality Switch, Inc.	Member
Faur	Florin	Prolec GE Waukesha	Member
Gustavsson	Niklas	Hitachi Energy	Member
Kraemer	Axel	Maschinenfabrik Reinhausen	Vice-Chair
Lejay	Olivier	Huaming USA Corp.	Member
Rehkopf	Sebastian	Maschinenfabrik Reinhausen	Member
Schwartz	Dan	Quality Switch, Inc.	Member
Sewell	Adam	Quality Switch, Inc.	Secretary
Sewell	Jeremy	Quality Switch, Inc.	Member
Stank	Markus	Maschinenfabrik Reinhausen	Member
Tillery	Timothy	Howard Industries	Member
Whitten	Christopher	Hitachi Energy	Member