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## Working Group 60076-57-1202

Chair: Ewald Schweiger

### 60076-57-1202

#### IEC/IEEE International Standard Power Transformers Part 57-1202: Liquid immersed phase-shifting transformers

- 1) Meeting started at 1:45 PM (CDT) on Tuesday March 25<sup>th</sup>.
- 2) This was the second meeting as WG (Working Group).
  - Attendance: 46
  - Members: 12
  - Guests: 34
- 3) Call for patents & Copyright statement
  - a) The slides on essential patents from IEEE have been uploaded on the internet and were presented during the meeting. A call for essential patents was made.  
→ No essential patents or issues were reported.
  - b) The slides on IEEE copyright policy from IEEE have been uploaded on the internet and were presented during the meeting. A call for essential patents was made.  
→ No issues were reported.
  - c) The slides on "Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct" have been presented
- 4) Establish quorum
  - A quorum was achieved.
  - Total number of members is 14 requiring 8 members for quorum.
  - 12 members were present establishing quorum.
- 5) Approval of agenda
  - a) Motion to approve agenda was made by Markus Stank and second by Luc Dorpmanns.  
No discussion or objections were made.
  - b) Motion was carried unanimously with no objections or abstentions.
- 6) Approval of meeting minutes of the previous Virtual meeting on October 29<sup>th</sup>, 2024
  - a) The Meeting Minutes were posted on the [PTRC website](#).
  - b) Motion to approve agenda was made by Christoph Ploetner and second by Sebastian Rehkopf.  
No further discussion or objections were made.
  - c) Motion was carried unanimously with no objections or abstentions.
- 7) Kevin Juchem and Ewald Schweiger have refreshed the Dual Logo and IEC status
  - At the IEC TC 14 Plenary session held in Rome, Italy, in April 2024, a decision was made to establish a Maintenance Team (MT) designated 'phase-shifting transformers' with the responsibility 'to upkeep the standards pertaining to phase-shifting transformer projects.' Consequently, MT 60076-57-PST was formed to undertake the revision of standards IEC/IEEE 60076-57-1202 and IEC/IEEE 60076-57-135, with Kevin Juchem being named the convener.
  - Kevin Juchem updated on the global composition of the IEC team.
  - Ewald Schweiger emphasized that this development streamlines the harmonization between IEC and IEEE standards for this particular document.

## Working Group 60076-57-1202

- 8) Kevin Juchem reported on the progress of the Working Group (WG) at CENELEC concerning the standard EN IEC/IEEE 60076-57-1202:2025, including Amendment A11:
  - The vote by the national committees was positive (100%), leading to its scheduled implementation at the national level.
  - Additional information: A single editorial remark was made: The angle brackets surrounding in Paragraph 3.20 should be eliminated.
- 9) Mike Thompson, the liaison from the Power Systems Relaying and Controls Committee (PSRC), provided an update on the status of C37.245 (IEEE Guide for the Application of Protective Relaying for Phase-Shifting Transformers).
  - The PSRC convened in January and considered revising C37.245 concurrently with IEC/IEEE 60067-57-135.
  - The subcommittee concurred on establishing a task force to aid in updating the PST Guide/Standard.
  - The PSRC is scheduled to meet again in May and September of this year.
  - The May gathering will be the first occasion to create a PAR (Project Authorization Request) study group for C37.245.
  - The update concluded, and the floor was opened for discussion among the members; however, no discussions or questions ensued.
- 10) Luc Dorpmanns presented a review of definitions from the Standard and the guide.
  - The plan to move forward is to keep and use the definitions from the standard and use this in guide. No change in the standard (60076-57-1202).
- 11) Kevin Juchem presented the review of the content and suggested two changes
  - (1) Annex B – Behavior of a phase shifting transformer with non-symmetrical fault currents  
Due it is informative to move this to the guide.
  - (2) Annex F – Additional information on advanced retard switch  
Due it is informative to move this to the guide.
- 12) Planned next steps
  - a) *Please Continue to review* and look for duplication, errors, corrections needed and improvements (Standard posted – PTSC site).  
*Volunteers are requested to reach out to the ones who took over tasks and / or officers.*
  - b) Collection of feedback (via email)
- 13) The meeting was adjourned at 2:15 PM (MDT)
- 14) Next meetings (planned):
  - Virtual meeting – might be scheduled before October 2025.
  - In-person meeting F25 – October 19-23, 2025 in Bonita Springs, FL.

Respectfully submitted,  
Ewald Schweiger - WG Chair

List of attendees for this meeting on the next page

**IEEE PES TRANSFORMERS COMMITTEE**

Power Transformers Subcommittee

SPRING MEETING: MARCH 25<sup>th</sup>, 20251:45pm-3:00pm (MDT) – Centennial G (3<sup>rd</sup> Floor)**UN-APPROVED**These minutes are on the agenda  
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List of attendees for this meeting:

Last Name	First name	Affiliation	Status
An	Kyungchan	Hyosung	G
Antosz	Stephen	Consultant	G
Beaudoin	Jason	Weidmann	G
Berube	Jean-Noel	Rugged Monitoring Quebec Inc	G
Bhattiprolu	Prudhvi Anand	AES	G
Brodeur	Samuel	Hitachi	G
Cai	Jim	JSHP transformer	G
Calitz	David	Siemens Energy	G
Colopy	Craig	Retired from EATON	G
Czernorucki	Marcos	Hitachi Energy	G
Dorpmanns	Luc	Royal SMIT Transformers	M
Espitia	Wguu	Reinhausen Manufacturing Inc	G
Fedor	Ken	SGB-Smit Group	G
Foster	Patrick	NextEra	G
Hamoir	Didier	Transformer Protector Corporation	G
Hampton	Kevin	Siemens Energy	G
Heiden	Kyle	Eaton	G
Jeong	chanmin	HD Hyundai	G
Juchem	Kevin	Hitachi Energy Germany AG	G
Kaineder	Kurt	TRENCH	G
Lopes	Ricardo	Efacec	G
Magela junior	Geraldo	Siemens-Energy	G
Mendez Zamora	Omar	Prolec	G
Merrill	Logan	OMICRON	G
Murcia	Fredy	Siemens Energy	G
Musgrove	Ryan	Oklahoma Gas & Electric	M / Chair PTSC
Neild	Kris	Megger	G
Padmanaban Iyer	Ashwin	STP	G
Patel	Nitesh	Hyundai Power Transformers	G
Patel	Sanjay	Royal Smit Transformers	M
Pellon	Verena	FPL NextEra	G
Ploetner	Christoph	Siemens Energy	M
Rehkopf	Sebastian	Reinhausen Germany	M
Schrammel	Alfons	Siemens Energy	M
Schweiger	Ewald	Siemens Energy	M / Chair
Shannon	Michael	Rea Magnet Wite	G
Shertukde	Hemchandra	UHART	G
Stank	Markus	Maschinenfabrik Reinhausen	M
Thompson	Michael	SEL Engineering Services	M
Torchia	Leonard	PSE&G	G

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Vermeulen	Harrie	Royal Smit Transformers	G
Vir	Dharam	PROLEC GE	G
Washburn	Alan	Burns & McDonnell	M
Watson	Joe	JD Watson and Associates	M
Weisensee	Matt	PacifiCorp	M
White	Jor	POWER Engineers	G