

Meeting Minutes

PC57.165 WG Guide for Temperature Measurements for Liquid Immersed Transformers and Reactors Minutes from Spring 2021 Virtual Meeting

Officers

Chair – Mark Tostrud

Vice Chair/Secretary – Zan Kiparizoski

1. Meeting Date and Time: 04/27/2021 at 9:25-10:40am CST

Meeting started at 9:25am

2. Call for essential patents

The patent slides were shared on screen and a request for any known patents that were essential to the work of the Working Group was made. There were no responses to the request.

2. Reviewed IEEE-SA Copyright Policy

The copyright policy slides were shared on screen and a request for any known copyright issues was made. One member has previously submitted copyright document for his work.

4. Chairs remarks

Previously sent agenda was updated by adding review of section 4.11, and adding PAR extension request under the New Business.

5. Attendance

- There were 49 attendees in the meeting
 - 14 members
 - 22 guest
 - 5 guests requested membership
 - 8 attendees did not identify as a member/guest
- Quorum check
 - Quorum was achieved
 - The first poll showed 12 of 26 members were present
 - The second poll was performed about 5 minutes into the meeting, 14 of 26 members were present for the second poll.

6. Approval of the agenda and minutes

- Agenda - Minor changes were made to the agenda which was distributed before the meeting. The changes were reviewed with the membership.
 - Motion was made to approve to approve the modified agenda for the meeting (1st – Jean-Noel Berube, 2nd – Vinay Mehrota)
 - Motion was unanimously approved.

- Minutes – Minutes from the Fall, 2020 virtual meeting were reviewed
 - Motion was made to approve the fall, 2020 virtual meeting minutes (1st – Sam Sharpless
2nd – Vinay Mehrota)
 - Motion was unanimously approved.

7. Old Business

Chair presented changes and review results for various sections in the guide:

- Purpose:

After review of the Purpose and brief discussion, motion was made to add purpose statement in the document and proceed with PAR revision. Motion was anonymously approved.

 - Motion was made to approve the purpose statement in the draft – (1st – Vinay Mehrotra, 2nd – Stuart Chambers)
 - Motion was unanimously approved.
- Section 3 - Definitions:

A final review was performed. Suggestion was made to provide illustrations in annex A.5 and A.6. Hakim Dulac volunteered for this task.

 - Motion was unanimously approved.

Motion was made to approve Definitions. Motion was anonymously approved.

- Section 4.3. – Winding Temperature Measurement

A final review was performed.
Motion was made to approve this section. Motion was anonymously approved.

 - Motion was made to keep Section 4.7 – Tank Wall Measurements in the guide (1st – Ryan Musgrove, 2nd – Jean-Noel Berube)
 - Motion was unanimously approved.
- Section 4.4 – Core Temperature Measurements:

A final review of this section was performed.

 - Motion was made to approve Section 4.4 – (1st Hakim Dulac, 2nd Ryan Musgrove)
 - Motion was unanimously approved.
- Section 4.7 – Types of Equipment for Making Tank Wall Temperature Measurements:

There was a recommendation in an earlier meeting to remove this section and other sections that did not have content. However, unlike the other sections, extensive work has already been completed on this section. Based on this, the chair requested a motion to keep section 4.7.

 - Motion was made to keep Section 4.7 – Tank Wall Measurements in the guide (1st - Sam Sharpless, 2nd - Stuart Chambers)
 - Motion was unanimously approved.

After the motion was approved, it was noted by the members that section 4.7 contained content which really should be part of 4.2.3.

 - Motion was made to review Section 4.7 and merge relevant portions with 4.2.3 – (1st - Gilles Bargone, 2nd Hakim Dulac)
 - Motion was unanimously approved.

- Section 4.11 – Bolted Connection Temperature Measurements
 - Motion was made to approve section 4.11 – (1st - Sam Sharpless, 2nd – Hakim Dulac)
 - Motion was unanimously approved.

8. New Business

- The chair proposed to:
 - Start the process toward PAR Extension and PAR revision
 - Move the guide toward ballot
 - Schedule virtual meeting to review modified draft of the document

9. Motion to adjourn (10:42)

- Motion was made to adjourn the meeting – (1st - Sam Sharpless, 2nd – Juan Castellanos)
 - Motion was unanimously approved.

10. Minutes

The minutes were recorded by Zan Kiparizoski – Secretary and reviewed by Mark Tostrud – Chair

WG PC57.165 – Participation List, Virtual Spring 2021 Meeting			
Role	First Name	Last Name	Company
Member	Suresh	Babanna	Southwest Electric Co.
Member	Gilles	Bargone	FISO Technologies Inc.
Member	Jean-Noel	Berube	Rugged Monitoring Inc.
Member	Juan	Castellanos	Prolec GE
Member	Stuart	Chambers	Powertech Labs Inc.
Member	Scott	Digby	Duke Energy
Member	Hakim	Dulac	Qualitrol Company LLC
Member	Sheldon	Kennedy	Niagara Transformer
Secretary	Zan	Kiparizoski	Howard Industries
Member	Vinay	Mehrotra	SPX Transformer Solutions, Inc.
Member	Anatoliy	Mudryk	Camlin Power
Member	Martin	Munoz Molina	Orto de Mexico
Member	Ryan	Musgrove	Oklahoma Gas & Electric
Member	Steven	Schappell	SPX Transformer Solutions, Inc.
Member	Samuel	Sharpless	Rimkus Consulting Group
Chair	Mark	Tostrud	Dynamic Ratings, Inc.
Member	Trenton	Williams	Advanced Power Technologies
Guest	Muhammad	Ali	American Electric Power
Guest	Gene	Blackburn	Gene Blackburn Engineering
Guest	William	Boettger	Boettger Transformer Consulting LLC
Guest	Solomon	Chiang	The Gund Company

Guest	Andy	Downey	SPX TRANSFORMER SOLUTIONS
Guest	Tim	Gradnik	Elektroinsitut Milan Vidmar
Guest	Robert	Harper	Soltex Inc.
Guest	Thomas	Hartmann	Pepco Holdings Inc.
Guest	George	Jalhoun	PPI
Guest	Nicholas	Jensen	Delta Star Inc.
Guest	John	John	Virginia Transformer Corp.
Guest	Gael	Kennedy	GR Kennedy & Associates LLC
Guest	Tiffany	Lucas	SPX Transformer Solutions, Inc.
Guest	Balakrishnan	Mani	Virginia Transformer Corp.
Guest	Balakrishnan	Mani	Virginia Transformer Corp.
Guest	Paul	Morakinyo	PSEG
Guest	Parminder	Panesar	Virginia Transformer Corp.
Guest	Dwight	Parkinson	EATON Corporation
Guest	Monil	Patel	Pacific Gas & Electric Company
Guest	Nitesh	Patel	Hyundai Power Transformers USA
Guest	Daniel	Perez	
Guest	Alvaro	Portillo	Ing. Alvaro Portillo
Guest	Chris	Powell	Intermountain Electronics
Guest	Tejasvi	Prakash	Schweitzer Engineering Labs
Guest	Ion	Radu	Hitachi ABB Power Grids
Guest	Oleg	Roizman	IntellPower Pty Ltd
Guest	Dinesh	Sankarakurup	Duke Energy
Guest	Stefan	Schindler	Maschinenfabrik Reinhausen
Guest	Hamid	Sharifnia	Consultant
Guest	Dave	Sheehan	HICO America
Guest	Adrian	Silgado	IFD Corporation
Guest	KUSHAL	SINGH	ComEd
Guest	Brad	Staley	Salt River Project
Guest	Vijay	Tendulkar	Power Distribution, Inc. (PDI)
Guest	Jos	Veens	SMIT Transformatoren B.V.
Guest	Kannan	Veeran	Georgia Transformer
Guest	ROGERIO	VERDOLIN	Verdolin Solutions Inc.
Guest	Drew	Welton	Intellirent
Guest	Malia	Zaman	IEEE