

Approved Meeting Minutes

PC57.165 WG Guide for Temperature Measurements for Liquid Immersed Transformers and Reactors

Minutes from Fall 2020 Virtual Meeting

Officers

Chair – Mark Tostrud

Vice Chair/Secretary – Zan Kiparizoski

1. Meeting Date and Time: 10/22/2020 at 9:25-10:20am CST

Meeting was called to order at 9:30am

2. Call for essential patents

The patent slides were projected 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 projected on screen and a request for any known copyright issues was made. There were no responses to the request.

3. Officer changes

Officer changes - Phil McClure (Chair) retired in September, 2020. Robert Thompson (Vice-Chair) retired in February, 2020. The secretary, Mark Tostrud, has moved to the Chair position. A volunteer was requested to fill the secretary position. Zan Kiparizoski volunteered to serve as secretary. At this time, the vice-chair position will not be filled.

4. Chairs remarks

The PAR for this project expires on 12/31/2020. A schedule to complete the guide was proposed to the working group to complete the guide early in 2021 so we can begin the ballot process by the spring of 2021. Sheldon Kennedy commented that it is important to start the ballot process by Spring, 2021. A PAR extension will probably not be granted if we are not in ballot.

5. Attendance

- There were 41 attendees in the meeting
 - 13 members
 - 28 guest
- 7 guests requested membership
 - 6 were added as guests since it was their first meeting
 - 1 was attending his second consecutive meeting and will be added as a member for the spring meeting
- Quorum check
 - The first electronic poll showed 12 of 25 members were present

- The second electronic poll was performed about 10 minutes into the meeting. 10 of 25 members were present for the second poll.
- A manual poll was performed using the chat box. 13 of 25 members were present so a Quorum was achieved

6. Approval of the agenda and minutes

- There was no objection to the unanimous approval of the meeting agenda
- There was no objection to unanimous approval of the fall, 2019 meeting minutes after minor corrections were made

7. Old Business

Chair requested updates from the volunteers for various sections in the guide:

- Purpose – A purpose statement was drafted and emailed to the former chair late in 2019. The volunteer will try to find the email but is not sure if he will be able to locate the email since his computer failed and he may not be able to recover it. If the original proposal cannot be found, a new purpose statement will be drafted. Since the Scope doesn't specify whether design measurements will be considered in the guide, the purpose statement will address whether R&D measurements and type test measurements are included.
- Purpose statement will clarify whether the guide will include R&D measurements and other test measurements.
- Section 3 - Definitions: Section was recently reviewed. The section is in pretty good shape. A final review will be performed once the document is further along to minimize the number of revisions required.
- Section 4.4 – Core Temperature Measurements: Review of this section will be completed by December 2020.
- Section 4.6 – OLTC temperature measurements - The methods to monitor OLTC temperatures are identical to the methods used to monitor top oil and bottom oil temperature. Recommendation is to include OLTC oil temperature measurements in section 4.2.
- Section 4.8 – Bushing temperature measurement – Volunteers from the bushing committee provided guidance on this section in an email to the previous chair in January/February, 2020. The email will be forwarded to the current chair for his consideration.
- A motion passed in fall, 2019 to remove sections 4.5 to 4.10 from the guide since the measurements in these sections were R&D measurements. Since we don't have content for these sections, we will proceed with removing those sections. If viable methods to monitor bushing temperatures are identified, a motion will be made to add section 4.8 back into the document.
- During the fall 2019 new business discussion, a proposal was made to reorganize the document by measurement type rather than by component. The proposal was tabled until this meeting since the former chair was not present in the meeting. The current chair indicated he was not considering reformatting the document since we are in the final stages of completing the document.

8. New Business

- The chair proposed the following timeline to allow us to move the guide towards ballot:
 - December, 2020 – Complete all sections discussed in old business above

- January, 2021 – Update the guide to include the content submitted in December and send the draft out for comment
- February/March, 2021 – resolve all comments and update the guide
- April, 2021 – Begin the ballot process

9. Motion to adjourn

10. Minutes

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

WG PC57.165 – Participation List, Virtual Fall 2020 Meeting			
Role	First Name	Last Name	Company
Member	Gilles	Bargone	FISO Technologies Inc.
Member	Jean-Noel	Berube	Rugged Monitoring Inc.
Member	Juan	Castellanos	Prolec GE
Member	Hakim	Dulac	Qualitrol Company LLC
Member	Sheldon	Kennedy	Niagara Transformer
Secretary	Zan	Kiparizoski	Howard Industries
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
Member	Babanna	Suresh	Southwest Electric Co.
Chair	Mark	Tostrud	Dynamic Ratings, Inc.
Member	Trenton	Williams	Advanced Power Technologies
Guest	Kayland	Adams	SPX Transformer Solutions, Inc.
Guest	Onome	Avanoma	Transformer Consulting Services Inc.
Guest	Jean-Noel	Berube	Rugged Monitoring Inc.
Guest	Thomas	Blackburn	Gene Blackburn Engineering
Guest	Nicolas	Blais	Nomos Systems
Guest	Jeremiah	Bradshaw	Bureau of Reclamation
Guest	Darren	Brown	Howard Industries
Guest	Solomon	Chiang	The Gund Company
Guest	Scott	Digby	Duke Energy
Guest	Samragani	Dutta Roy	Siemens Energy
Guest	Daniela	Ember Baci	Hydro-Quebec IREQ
Guest	Shamaun	Hakim	WEG Transformers USA Inc.
Guest	Ronald	Hernandez	Doble Engineering Co.
Guest	John	John	Virginia Transformer Corp.
Guest	Tiffany	Lucas	SPX Transformer Solutions, Inc.
Guest	Jinesh	Malde	M&I Materials Inc.
Guest	Anatoliy	Mudryk	Camlin Power
Guest	Anastasia	O'Malley	Consolidated Edison Co. of NY
Guest	Parminder	Panesar	Virginia Transformer Corp.
Guest	Vijay	Pargaonkar	Virginia Transformer Corp.

Guest	Nitesh	Patel	Hyundai Power Transformers USA
Guest	Homero	Portillo	Advanced Power Technologies
Guest	Oleg	Roizman	IntellPower Pty Ltd
Guest	Roderick	Sauls	Southern Company Services
Guest	Stefan	Schindler	Maschinenfabrik Reinhausen
Guest	Jacques	Vanier	Electro Composites (2008) ULC
Guest	Zachery	Weiss	WEG Transformers USA Inc.
Guest	Abderrahmane	Zouaghi	Hitachi ABB Power Grids