



Transformers Committee

Recognition and Awards Ceremony
Fall 2024 St Louis

Presented by Ed teNyenhuis
Past Chair / Awards Chair
Oct 29, 2024

Presentation Overview

1. Welcome
2. Memorial Tributes
3. New Committee Members
4. Senior Members
5. General Service Awards
6. Special Service Awards
7. PES Technical Committee Awards
8. IEEE SA Standards Award
9. Working Group Awards for Publications
10. Closing Statements

Memorial Tributes

Memorial Tributes

- The Transformers Committee takes time to recognize and remember past members and active participants who have pass away since our last meeting.
- It is our tribute to their dedication and participation in Transformers Committee activities.

Memorial Tributes

Greg Anderson



- Greg passed away March 8, 2024
- Greg was born and raised near Beaumont, TX. As a child, Greg enjoyed taking things apart to see how they worked. He got his pilot's license before his driver's license. He earned his electrical engineering degree from Lamar University, and his MBA from the University of Kansas. He worked for several companies, including Black and Veatch and OPPD, before starting his own consulting business, GW Anderson and Associates, in 2003.
- Greg and his wife, Peggy, were married for 31 years and had two children, Erik & Alicia. Greg enjoyed traveling for work and pleasure, and was able to visit many countries around the world. He always wanted the best for his family, friends, and church family, and would go out of his way to help any in need.

Memorial Tributes

Greg Anderson



- Committee member in 1997
- Chair of the Meeting Planning SC from 2010 – 2017
- Committee Treasurer from 2009 – 2017
- Chair of C57.150, Transportation Guide
- Meritorious Service Award at Fall 2008 meeting in Porto, Portugal
- Distinguished Service Award from the Committee in Fall 2014 meeting
- Most well known for his meeting planning arrangement and Association Management System (AMS)
- Committed to the work of the Transformer Committee

Memorial Tributes

Greg Anderson



Memorial Tributes

Nigel McQuinn



- Passed away July 8, 2024 at 68 years old
- Committee member in 1995
- Worked for PSM High Power Lab before being self employed in 1996
- Involved in many IEEE committees
- IEEE-PES Outstanding Engineer Award by the IEEE Pittsburgh Chapter in 2006
- Nigel's high-speed electric drive motors powered an electric racing car which currently holds several national/world land-speed-records, for both fuel-cell and battery powered vehicles, achieving over 302.9 mph on Utah Salt Flats, USA (Buckeye Bullet)

New Committee Members



New Committee Members

- Applications for voting membership in the Transformers Committee are reviewed and approved by the Administrative Subcommittee.
- Successful applicants can demonstrate **active participation** in **at least three Committee activities** for **at least two years** and are sponsored by at least one Subcommittee Chair.
- Specific details available at www.transformerscommittee.org

New Committee Members

The Administrative Subcommittee reviewed and approved the following voting membership applications at its October 27, 2024 meeting:

Dave Blew

Ryan Hogg

Ion Radu

Tony Reiss

Val Tatu

Michael Zarnowski

DE Blue Consulting

Bureau of Reclamation

Hitachi Energy

Custom Materials

Powersmiths International

Carte

Welcome to the Transformers Committee!

Senior Member

New IEEE Senior Members

Pragnesh Vyas



Amitabh Sarkar



John John



Life Senior Member

General Service Awards

Certificates of Appreciation

Meeting Host Company


Certificate of Appreciation




*The Transformers Committee of the IEEE Power & Energy Society
Expresses Sincere Appreciation to*



for Dedicated Service as Host Company for the
Fall 2024 Transformers Committee Meeting in St Louis, MO
October 20 - 24, 2024


David Wallach
Chair
Transformers Committee




Ed teNyenhuys
Chair, Recognition and
Awards Subcommittee

Certificates of Appreciation

Meeting Host

Certificate of Appreciation



Power & Energy Society®

*The Transformers Committee of the IEEE Power & Energy Society
Expresses Sincere Appreciation to*

Ed Smith

for Dedicated Service as Host for the
Fall 2024 Transformers Committee Meeting in St Louis, MO
October 20 - 24, 2024



David Wallach
Chair
Transformers Committee



Ed teNyenhuis
Chair - Recognition
and Awards Subcommittee

Transformers Committee Outstanding Service Award

Outstanding Service Award

(a Transformers Committee Award)

- Many people work very hard to help the Transformers Committee achieve its goals.
- The Committee strives to recognize the dedication and service offered by its members.
- The Outstanding Service Award is bestowed upon individuals who have demonstrated exceptional dedication and support, and who have selflessly devoted their time and energy to the betterment of the Committee and the industry we serve.

Outstanding Service Award

IEEE PES
Transformers Committee
Outstanding Service Award
October 29, 2024

Presented to



Joe Watson



For Longstanding Commitment and
Support of Committee Activities

IEEE PES
Transformers Committee
Outstanding Service Award
October 29, 2024

Presented to



Mike Sharp



For Longstanding Commitment and
Support of Committee Activities



PES Technical Committee Awards

Award for Outstanding Standard or Guide

C57.168-2023 – IEEE Guide for Low-Frequency Dielectric Testing for Distribution, Power, and Regulating Transformers

WG Chair: Daniel Sauer

Secretary: Sergio Hernandez

Significant Contributors: Bertrand Poulin Ajith Varghese
Hamid Abdelkamel Kyle Stechschulte
Drew Welton
Jeffrey Britton
John Foschia

Prize Paper Award

Three-Phase Three-Legged Wye-Wye Transformers With Only One Neutral Grounded and No Stabilizing Winding—Part I: Zero-Sequence Performance

IEEE TRANSACTIONS ON POWER DELIVERY VOL. 39, NO. 3, Pages 1451 – 1461

Luis A. Alvarez-Gomez, Xose M. Lopez-Fernandez, Francisco de Leon, Angel Ramos

IEEE TRANSACTIONS ON POWER DELIVERY, VOL. 39, NO. 3, JUNE 2024

1451

Three-Phase Three-Legged Wye-Wye Transformers With Only One Neutral Grounded and No Stabilizing Winding—Part I: Zero-Sequence Performance

Luis A. Alvarez-Gomez, Xose M. Lopez-Fernandez, Senior Member, IEEE, Francisco de Leon, Fellow, IEEE, and Angel Ramos

Abstract—In this article (Part I), a study of the zero-sequence stray losses in wye-wye-connected transformers without a (stabilizing) tertiary winding is presented. The paper shows where and when eddy losses and circulating current losses appear in the transformer structural metallic components. The overheating hazard potential due to the presence of zero-sequence flux is categorized (as severe, serious, and moderate) by the permitted neutral current. The method is successfully applied to (and experimentally verified with) three-phase, three-legged, core type, wye-wye-connected transformers based on factory acceptance tests (FATs) data. It is uncovered that the severity of the overheating is determined by the phase angle difference between the zero-sequence current and the positive-sequence current. This is formulated by the proposed complex current capacity factor (CCF_c). In the companion paper

RNM
SW
LV
Y-Y
YG
 CCF_o
 CCF_o
 CCF_{oi}
 I_{oi}
 I_1
 I_{1A}
 I_{1a}

Reluctance network method.
Stabilizing winding.
Low voltage.
Wye-Wye connection.
Wye-Ground connection.
Current capacity factor (a complex number).
 $= \frac{I_p}{I_1} = \frac{I_p}{I_1} \angle \alpha = CCF_o \angle \alpha$.
 i th current capacity factor.
 i th phase zero-sequence current.
Balanced load phase AC current.
HV balanced load current of phase A.
LV balanced load current of phase a.

1458

IEEE TRANSACTIONS ON POWER DELIVERY, VOL. 39, NO. 3, JUNE 2024

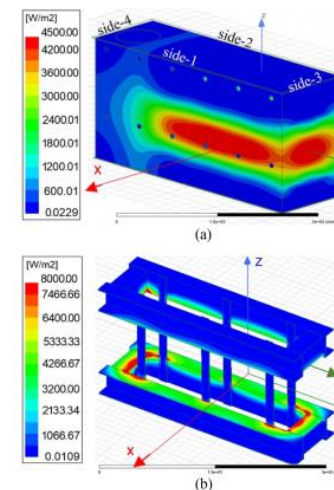


Fig. 13. 3D distribution of stray losses at zero-sequence non-load test (30% of rated current through neutral ($CCF_o = 0.3 \angle \alpha$) at min. current taps). (a) Stray loss density on tank walls (max. value is 4500 W·m⁻²). (b) Stray loss density on yoke clamps, crossbars, and flitch plates (max. value is 8000 W·m⁻²).

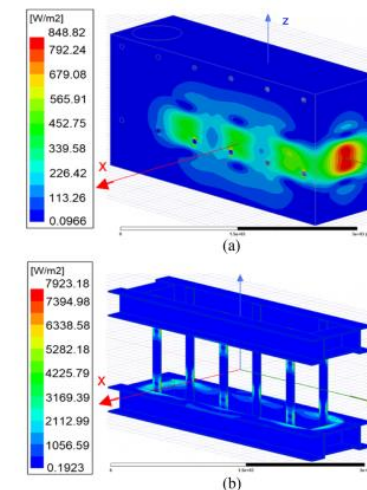


Fig. 14. 3D distribution of stray losses at rated load (minimum current taps). (a) Stray loss density on tank walls (max. value is 848.82 W·m⁻²). (b) Stray losses density on clamps, crossbars, and flitch plates (max. value is 2120 W·m⁻²).

Recognition Award for Outgoing Committee and Subcommittee Chairs

Eric Weatherbee - Bushings Subcommittee Chair (2020 -2024)

Casey Ballard - Dry Type Subcommittee Chair (2019 -2024)

Ulf Radbrandt – HVDC Subcommittee Chair (2019 -2024)

Tom Sizemore – Instrument Subcommittee Chair (2019 -2024)

Rogério Verdolin – Performance Characteristics SC (2020-2024)

George Payerle – STNP Subcommittee Chair (2019 -2024)

Scott Reed – Insulating Fluids Subcommittee Chair (2020 -2023)

Ed teNyenhuis – Committee Chair (2022-23)

Working Group Recognition

*Awards are mailed directly from
IEEE-SA, but we want to recognize
these hard-working participants as
well...*

IEEE Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances

WG Chair: Daniel Blaydon

WG Vice Chair: Ramsis Girgis

WG Secretary: Scott Digby

Plaques

Mats Bernesjo

Certificates of Appreciation

Afshin Rezaei-Zare Mark Tostrud

Gary Hoffman

Ion Radu

Joe Watson

IEEE Guide for the Dielectric Frequency Response Measurement of Bushings

WG Chair: Jun Deng

WG Vice Chair:

WG Secretary:

Plaques

Certificates of Appreciation

Charles Sweetser

Poorvi Patel

Evgeni Ermakov

Ismail Guner

C57.12.40™-2023

IEEE Standard for Network, Three-Phase Transformers, 2500 kVA and Smaller; High Voltage, 34 500 V and Below; Low Voltage, 600 V and Below; Subway and Vault Immersed

WG Chair: John Vartanian

WG Vice Chair:

WG Secretary: Daniel Schwartz

Plaques

Brian Klaponski

David Blew

Certificates of Appreciation

Avijit Shingari

Jeremy Sewell

Michael Zarnowski

Nabi Almeida

IEEE Guide for Determination of Maximum Winding Temperature Rise in Liquid-Immersed Transformers

WG Chair: Scott Digby
WG Vice Chair:
WG Secretary: Cihangir John Sen

Plaques

Certificates of Appreciation

Gilles Bargone	Gary Hoffman
Jean-Noel Berube	Ryan Musgrove
Ricardo Castro-Lopez	Jason Varnell
Hakim Dulac	Pedro Pedro

IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher

WG Chair: Gregory Anderson

WG Vice Chair: Ewald Schweiger

WG Secretary: Marnie Roussell

Certificates of Appreciation

Hamid Abdelkamel	Eduardo Garcia	Kraig Nunn	Roger Verdolin
Mario Alonso	Jerzy Kazmierczak	Rakesh Rathi	Krishnamurthy Vijayan
Wallace Binder	Peter Kleine	Amitabh Sarkar	David Wallach
W Boettger	Andrew Lawless	Alfons Schrammel	Joe Watson
Jeremiah Bradshaw	Mario Locarno	Cihangir Sen	Bruce Webb
Paul Dolloff	Ryan Musgrove	Stephen Shull	Daniel Weyer
Marcos Ferreira	Shankar Nambi	Alwyn Van Der Walt	Kris Zibert

Closing Statements

**This concludes the Fall 2024
Awards Ceremony!**

Thank You for Attending!

Meetings resume at 1:45 PM