



AGENDA

MEETING NAME USNC TAG on IEC TC 14

MEETING PLACE

DATE & TIME Wednesday, October 18, 2023, 8:00 AM - Wednesday, October 25, 2023, 7:00 AM EDT

PRESIDING OFFICERS Tom Prevost

<u>MEMBERS</u>	ABB Inc.	teNyenhuis, Ed
	ABB Incorporated	Geibel, David
	Boettger Transformer Consulting LLC	Boettger, William
	Burns & McDonnell	Davis, Eric
	Burns & McDonnell	Tanaka, Troy
	Cargill	McShane, Charles
	Patrick	
	Cargill	Rapp, Kevin
	COGENT Power Inc	Johnstone, Ted
	Doble Engineering Company	Kennedy, Matthew
	Doble Engineering Company	Locarno, Mario
	DuPont Protection Solutions	Ballard, Robert
	Eaton	Colopy, Craig
	Eaton	Narawane, Aniruddha
	EATON Corporation	Tendulkar, Vijay
	Eaton's Cooper Power Systems	Parkinson, Dwight
	Eaton's Cooper Power Systems	Sauer, Daniel
	EMS International Consulting, Inc.	Sampat, Mahesh
	Ergon	Acosta, Juan
	Ergon	Casserly, Edward
	FISO Technologies, Inc	Bargone, Gilles
	Foldi & Associates, Inc.	Foldi, Joseph
	Hitachi Energy USA Inc.	Arteaga, Javier
	Hitachi Energy USA Inc.	Girgis, Ramsis

Hitachi Energy USA Inc.	Johnson, Charles
Hitachi Energy USA Inc.	Tedesco, Joseph
Hitachi Energy USA Inc.	Tillery, John
Hitachi, Japan	Shirasaka, Yukiyasu
Hubbell Acme	Schram, Bruce
Hubbell Inc	Pagenkopf, Ken
Hubbell Industrial Controls, Inc.	Kielgas, Bruce
HVOLT Inc.	Hopkinson, Philip
IEEE	Marek, Richard
JMX Services, Inc.	Fulmer, Mark
LADWP	Ferreira, Marcos
LAL International	Lowdermilk, Larry
Midel, M&I Materials, UK	Gyore, Attila
MVA Diagnostics	Reed, Scott
Niagara Power Transformer	Kennedy, Sheldon
Pdicorp	Tendulkar, Vijay
Phenix Technologies	Britton, Jeff
Powerohm Resistors a division of Hubbell Industrial Controls, Inc.	Yingling, Thomas
PowerWright Technologies	Sharifnia, Hamid
Qualitrol LLC	Morales Cruz, Emilio
Quality Switch, Inc.	Dix, Larry
Quality Switch, Inc.	Schwartz, Dan
Reinhausen, Germany	Kraemer, Axel
SMIT Transformers	Patel, Sanjay
SPX Corporation	Vir, Dharam
Surplec, Inc Canada	Hochanh, Thang
Virginia Transformer Corporation	John, John
Virginia Transformer Corporation	Rathi, Rakesh
Virginia Transformer Corporation	Sarkar, Amitabh
Weidmann Electrical Technology Inc.	Biggie, Kevin
Weidmann Electrical Technology Inc.	Prevost, Thomas
	Ahuja, Raj

OTHERS

NEMA

Orr, Paul

MEMBERS

[Click here to enter text.](#)

ABSENT

NEMA STAFF

Paul Orr

1 CALL TO ORDER AND REVIEW OF NEMA MEETING GUIDELINES

The meeting will be called to order. The [Guidelines for Conducting NEMA Meetings](#) govern this meeting.

2 ROLL CALL/QUORUM

A roll call will be conducted and a quorum confirmed or noted as not present.

3 MINUTES

The minutes of the previous meeting will be reviewed.



TAG%20MINUTES%20Spring%202023.doc

4 REVIEW AND APPROVE AGENDA

The agenda will be reviewed.

5 US TAG on IEC TC 14 MEMBERSHIP UPDATE



USNC%20TAG%20IEC%20TC%2014%20R

All US residents are invited to join the TAG. There is a fee of \$300. Please contact Paul Orr or Tom Prevost if interested.

6 REVIEW of IEC TC 14 ACTIVITIES

Business items to be discussed:

IEC TC14 Chair, Christoph Ploetner, and USTAG TC 14 Chair, Tom Prevost, will review the activities of IEC TC14.



There are 40 active documents with 9 revisions in progress, including:

- 60076-1: General (equivalent to C57.12.00 and .01). Major revision, specifically of thermal requirements. Include insulation system with thermally upgraded paper. More than 1000 comments received on CD recently.
- 60076-2: Temperature Rise New title will be “*Thermal performance measurements and test procedures for liquid-immersed transformers*”. CD circulated in parallel with IEC 60076-1. More than 700 comments received on CD.
- 60076-4: Guide to LI and SI testing
- 60076-5: Ability to Withstand Short Circuit. This is a major revision. First CD received 550 comments. Resolution and CD2 preparation ongoing. CD2 expected mid 2024.
- 60076-6: Reactors
- 60076-9: Terminal and Tapping Markings
- 60076-18: Measurement of Frequency Response. Revision work has started. Intention is to harmonize with IEEE C57.149
- 60076-19: Uncertainties in Loss Measurements.
- WG C57.135 Guide for Phase Shifting Transformers IEEE C57.135 will be merged with IEC 62032 into IEC/IEEE 60076-57-135 New title will be, “*Technical guideline for the Application, Specification, and Testing of Phase-Shifting Transformers*”
- IEC/IEEE 60076-57-129 HVDC Converter Transformers New revision just started
- IEC 60076-26 Functional Requirements of Insulating Liquids for use in Power Transformers

IEC/IEEE Dual Logo Documents

- Four Documents have been published:

a) IEC/IEEE 60076-16:2018 ED2, Power transformers - Part 16: Transformers for wind turbine applications

MT 60076-16 Convenor Tom Breckinridge
Stability Date 2025

b) IEC/IEEE 60076-57-1202:2017 ED1, Power transformers - Part 57-1202: Liquid immersed phase-shifting transformers

c) **IEC/IEEE 60076-57-129:2017 ED1**, Power transformers - Part 57-129:
Transformers for HVDC applications
MT 60076-57-129 Convenor Mats Berglund
Stability Date 2025

d) **IEC/IEEE 60214-2:2019 ED2**, Tap-changers - Part 2: Application guidelines
MT 60214 Convenor Axel Kraemer
Stability Date 2026

- 1 document in development , IEC/IEEE 60076-57-135, Guide for Phase Shifting Transformers
- 1 Document in revisión, IEC/IEEE 60076-57-129 Transformers for HVDC Applications
- 1 document in consideration Standard Requirements for Load Tap Changers

7 OTHER BUSINESS

8 DATE AND TIME OF NEXT MEETINGS

The next TC 14TAG meeting is scheduled for: Spring 2024 (location) in conjunction with IEEE Transformers Committee meeting.

Date:

Time:

NEMALINK CODE

IEC-TC-14-TAG

SUBMITTED BY

Orr, Paul

SUBMITTED ON

Enter submission date.

LEGAL APPROVAL

Enter approval date.

UPLOAD LOCATION

Enter upload location.