

*Standards Subcommittee,
WG – C57.152 Revision
IEEE / PES Transformers Committee*

*April 26, 2021, 12:55PM – 2:10PM, CT
Virtual meeting*

UNAPPROVED MINUTES

Welcome

The chair, Marcos Ferreira, opened the meeting at 1:00PM.

1. Attendance and Attendance for Quorum

At the time of the meeting there are 57 Members, including Chair, Vice Chair and Secretary. The poll registered 79 participants, where 34 Members, 14 Guests requesting membership and 27 Guests. No answer from 4.

34 members present of 57 mean requirements for quorum was fulfilled. The list of attendees is shown below:

Name	Affiliation	Status
Ferreira, Marcos	Beale AFB	Chair
Werelius, Peter	Megger	Secretary
Binder, Wallace	WBBinder Consultant	Member
Denzer, Stephanie	Alliant Energy	Member
Dorris, Don	Nashville Electric Service	Member
Dutta Roy, Samraghi	Siemens Energy	Member
Foata, Marc	Maschinenfabrik Reinhausen	Member
Griesacker, Bill	Duquesne Light Co.	Member
Gustavsson, Niklas	Hitachi ABB Power Grids	Member
Hayes, Roger	General Electric	Member
Heiden, Kyle	EATON Corporation	Member
Herron, John	Raytech USA	Member
Lejay, Olivier	Huaming USA Corp.	Member
Locarno, Mario	Doble Engineering Co.	Member
McFadden, Matthew	Oncor Electric Delivery	Member
McNelly, Susan	Xcel Energy	Member
Milojevic, Goran	DV Power	Member
Murray, David	Tennessee Valley Authority	Member
Musgrove, Ryan	Oklahoma Gas & Electric	Member
Naderian, Ali	Metsco	Member
Patel, Poorvi	Electric Power Research Institute (EPRI)	Member
Plath, Cornelius	OMICRON Energy Solutions GmbH	Member
Raymond, Timothy	Electric Power Research Institute (EPRI)	Member
Reed, Scott	MVA	Member
Robalino, Diego	Megger	Member
Saad, Mickel	Hitachi ABB Power Grids	Member

Servaraj, Pugal	Virginia Transformer Corp.	Member
Shertukde, Hemchandra	University of Hartford	Member
Sweetser, Charles	OMICRON Electronics Corp USA	Member
Szczechowski, Janusz	Maschinenfabrik Reinhausen	Member
Tanaka, Troy	Burns & McDonnell	Member
teNyenhuis, Ed	Hitachi ABB Power Grids	Member
Verdolin, Rogerio	Verdolin Solutions Inc.	Member
Walia, Sukhdev	New Energy Power Co.	Member
Welton, Drew	Intellirent	Member
Amarasinghe, Dinu	Bruce Power	Guest
Ayers, Donald	Ayers Transformer Consulting	Guest
Benach, Jeff	Consultant	Guest
Benedict, Ramon	SPX Transformer Solutions, Inc.	Guest
Bishop, Ryan	Minnesota Power	Guest
Boettger, William	Boettger Transformer Consulting LLC	Guest
Bolar, Sanket	Megger	Guest
Boman, Paul	Hartford Steam Boiler	Guest
Buchgeher, Erich	Siemens Energy	Guest
Cheim, Luis	Hitachi ABB Power Grids	Guest
Davis, Eric	Burns & McDonnell	Guest
Doak, Eric	D4EnergySolutions LLC	Guest
Emakov, Evgenii	Hitachi ABB Power Grids	Guest
Fausch, Reto	RF Solutions	Guest
Garcia Wild, Eduardo	Siemens Energy	Guest
Gray, Taylor	Portland General Electric (PGE)	Guest
Guner, Ismail	Hydro-Quebec	Guest
Harley, John	FirstPower Group LLC	Guest
Hollrah, Derek	Burns & McDonnell	Guest
Kessler, Stacey	Basin Electric Power Cooperative	Guest
Klempner, Dmitriy	Southern California Edison	Guest
Knapek, William	OMICRON Electronics Corp USA	Guest
Lamontagne, Donald	Arizona Public Service Co.	Guest
Mangubat, Darrell	Siemens Power Operations Inc.	Guest
Mani, Kumar	Duke Energy	Guest
Mayer, Robert	Siemens Energy	Guest
McBride, James	JMX Services, Inc.	Guest
Melle, Thomas	HIGHVOLT	Guest
Millard, Zachary	Great River Energy	Guest
Nabi-Bidhendi, Hossein	ABB Inc.	Guest
Nesvold, Brady	Xcel Energy	Guest
Panesar, Parminder	Virginia Transformer Corp.	Guest
Patel, Vinay	Consolidated Edison Co. of NY	Guest
Reeder, Perry	SPX Transformer Solutions, Inc.	Guest
Reimer, Jonathan	FortisBC	Guest
Rock, Partick	American Transmission Co.	Guest
Rodriguez, Leopoldo	Transformer Testing Services LLC	Guest
Roizman, Oleg	IntelliPower Pty Ltd	Guest
Sarkar, Amitabh	Virginia Transformer Corp.	Guest
Sinclair, Jonathan	PPL Electric Utilities	Guest
Snyder, Steven	Hitachi ABB Power Grids	Guest

Stacy, Fabian	Hitachi ABB Power Grids	Guest
Steeves, Gregory	Baron USA, LLC	Guest
Thompson, James	T&R Service Company	Guest
Trifunoski, Risto	Trench Limited	Guest
Walder, Nicholas	EATON Corporation	Guest
Zanwar, Anand	Siemens Energy	Guest

2. Approval of Agenda

After a motion by Wallace Binder, and seconded by Rogerio Verdolin, the group unanimously approved the Agenda.

3. Approval of Minutes of Meeting from Fall 2020

After a motion by Shertukde Hemchandra, and seconded by Wallace Binder, the group unanimously approved Meeting from Fall 2020.

4. Call for Patents

The chair presented slide 1-4, dated January 2, 2018 informing the IEEE patent policy and participants duty to inform. There were no issues related to patent assurance brought up by attendees in the meeting.

5. IEEE Copyright Policy

The chair presented IEEE-SA Copyright Policy slides 1-2 informing the audience of the policy.

6. Chair's Remarks

“Welcome to the STD. WG C57.152 to work on revision. This is second meeting virtually and we are going to try to provide the latest on working progress of each task force.”

“Raka Levi will be announcing his decision to step down as vice chair of this WG. This meeting will be his last one. As a chair I would like to take this opportunity to thank Raka, as my good friend, and I have the privilege to work with him for the last 23 years. Raka is one of most knowledgeable and kind that I have known. Let us give a hand to Raka for all his contribution to this WG as well as IEEE as whole. Thank you Raka”.

“We would like to introduce our new Secretary Goran Milojevic. Peter Werelius will take over the role as Vice Chair.”

7. Task Forces Working Progress Report

TF-1: Section 7.2 – Main Tank Volunteers

Charles Sweetser (team leader)

Charles referred to the decision on F20 meeting.

The text from the F20 MoM:

“**Motion** by Chuck Sweetser “Send the list of comments to the WG (Guests and Members) for Members to Vote if the group should proceed with draft changes. Wallace Binder seconded the motion. The members unanimously approved the motion.”

The WG officers will re-send the list of comments to the WG (Guests and Members) for Members to Vote if the group should proceed with draft changes. Response time 30 days.

TF2: Section 7.3 – Bushings Volunteers

Mario Locarno (team leader)

Mario briefly described the work on the section. It is time to send out the draft to the WG for comments.

The WG officers will re-send or post the TF2 draft WG (Guests and Members) to get comments and suggestion to improve the section. Response time 30 days.

TF3: Section 7.4 – Tap Changers Volunteers

Marcos Ferreira (team leader)

Marcos briefly described the work on the section. It is time to send out the draft to the WG for comments.

The WG officers will re-send or post the TF3 draft documents WG (Guests and Members) to get comments and suggestion to improve the section. Response time 30 days.

TF4: New Annexes: Dynamic Resistance and Vibroacoustic Measurements

Goran Milojevic

Goran briefly described the work on the two Annexes. The Annexes were sent out and posted prior the meeting. The WG officers will re-send or post the two Annexes to the WG to get comments and suggestion to improve the section. Response time 30 days.

8. New Businesses (Secretary did recorded any decisions)

New team leaders and task force volunteers are needed for the following sections:

- Section 3 - Definitions
- Section 5 - Maintenance test and information (table 5.1 excluded)
- Section 5 - Maintenance test and information (table 5.1)
- Section 6 - Safety
- Section 7 - Test and Test Techniques
- Section 7.1 - Periodic General Inspections
- Section 7.5 - Auxiliary Equipment
- Section 8 - Diagnostic Chart (Table 20)
- Annexes C and G

Diego Robalino volunteered lead Annex G, DFR Annex. Cornelius, Evgenii, Maria and Poorvi volunteered contribute the DFR section at the meeting. The Secretary has an earlier record Ronald Hernandez has also volunteered to the DFR section.

Also, it was presented as new business to create new annex (L) for, “Diagnostic Test Procedure for LTC Reactors and Series Transformer Devices”.

The Chair asked WG members volunteers are interested in working on any above sections and annexes:

Chair: Marcos Ferreira: mdferreira@comcast.net

Vice-Chair: Peter Werelius: peter.werelius@megger.com

Secretary: Goran Milojevic: goran@dv-power.com

9. Meeting Adjournment

A motion to adjourn the meeting was raised by Diego Robalino and seconded by Poorvi Patel.
The meeting adjourned at 2:05PM

Respectfully submitted,

Marcos Ferreira – Chair

Peter Werelius – Secretary