

IEEE Transformers Committee  
**C57.12.40**  
**Secondary Network Transformer Working Group**

**Spring 2021 Virtual Meeting Minutes**

**WebEx**

10:50 AM CST April 27, 2021

**Members Present**

Dave Blew (Chair)  
Dan Schwartz (Secretary)  
Douglas Craig  
Tom Dausat  
Larry Dix  
William Elliott  
Mark Faulkner  
Brad Kittrell  
Brian Klaponski  
Alejandro Macias  
Dan Mulkey  
George Payerle  
James Ratty  
Pedro Salgado  
Avijit Shingari  
Igor Simonov  
Adam Sewell  
Jeremy Sewell  
Travis Spooone  
John Vartanian

**Company**

PSE&G  
Quality Switch  
Richards Manufacturing Co.  
Prolec GE  
Quality Switch  
Prolec GE  
Eaton Corporation  
Consolidated Edison Co. of NY  
Carte International Inc  
CenterPoint Energy  
Mulkey Engineering Inc.  
Carte International Inc.  
Richards Manufacturing Co.  
Electronic Technology Inc.  
Pepco  
Toronto Hydro  
Quality Switch  
Quality Switch  
Eaton Corporation  
National Grid

**Guests Present**

Scott Abbott  
Gregory Ante  
Kevin Biggie  
Didier Hamoir  
Ken Hampton  
Jack Harley  
Robert Kinner  
Kent Miller  
Vinay Patel  
Eric Theisen  
Bruce Webb  
Bill Whitehead  
Mike Zarnowski

**Company**

PPG  
Southern California Edison  
Weidmann Electrical Technology  
Transformer Protector Corp.  
Baltimore Gas & Electric  
First Power Group LLC  
First Power Group LLC  
T&R Electric Supply  
Consolidated Edison Co. of NY  
Metglas, Inc.  
Knoxville Utilities Board  
Siemens Energy  
Carte International Inc.

**\*Requested Membership**

- 1) The group met on Tuesday, April 27, 2021 at 10:50 AM CST with 20 members and 13 guests. Zero (0) guests requested membership. Quorum was achieved with 20/29 (69%) of members present.
- 2) A call for patents was made; none were mentioned.

- 3) Copyright requirements were reviewed by the Chair.
- 4) An agenda was presented for approval. Motion to approve was made by Mark Faulkner and seconded by Brian Klaponski. The agenda was approved unanimously.
- 5) The minutes of the October 20, 2020, meeting on WebEx were reviewed. A motion to approve was made by George Payerle and seconded by Jeremy Sewell. The minutes were approved unanimously.
- 6) The Chair reviewed that the PAR was approved and became active May 21, 2019 and expires December 31, 2023.
- 7) Old Business - The Chair reviewed the previous meetings list of topics to be addressed in the next revision of C57.12.40 and the following items were discussed:
  - a. John Vartanian (National Grid) and Brad Kittrell (Consolidated Edison) presented on Cathodic Protection initiatives at each respective company to provide some background on CP methods used at each company. Both presenters fielded multiple questions.
  - b. John Vartanian and Brad Kittrell presented on their respective company's primary switch location methodology regarding safety and operational requirements. Both presenters fielded questions on their respective methodologies.
  - c. Cory Morgan (Eversource) was to present on primary switch testing requirements; however, he was unable to make this meeting. He will present at the next meeting in the fall.
  - d. Will Elliott (Prolec GE) presented on the difference in measurements of the two liquid types in Tables 8 & 9. Mike Zarnowski (Carte) presented a recommendation to update wording in Tables 8 & 9 based on fluid type. It was agreed to make the updates in the draft and have discussion and vote on the changes at a later meeting.
  - e. Dave Blew agreed to conduct research to determine if there are any end users that still require fluids other than mineral oil or FR3 in transformer manufacture; other fluids would include silicone and BETA among others. He will also check with manufacturers to determine if there is any requirement for those fluids in orders.
  - f. A proposal was provided by Brian Klaponski for removal of Table 7 and updating Section 5.6 wording to accommodate the removal. It was agreed to make the changes in the draft and move any discussion and approval to a later meeting date.
  - g. There was discussion on developing wording and scoping on improved bushing standardization in the standard for the group to review, but there was some confusion on what the actual request was at the previous meetings. Dave Blew suggested that we should discuss standardizing primary bushing sizing and capacity. Mike Zarnowski agreed to provide wording for the next meeting.
  - h. Dan Schwartz reviewed C57.12.24 compared to C57.12.40 and identified discrepancies between the two standards. Dave Blew, Mike Zarnowski, and Brad Kittrell agreed to review the list and provide suggestions for trying to keep consistency between the two standards.
  - i. Type testing for arc withstand was tabled until future meetings due to intellectual property concerns of each manufacturer and if that type of test can be developed.
- 8) New Business – The Chair opened the discussion on any new items the group felt needed to be addressed in the next revision. No new items were brought forward.
- 9) The Chair discussed that we have a few meetings to hash out the proposed modifications to the current revision, but that we must be diligent about doing so in order to finish the next revision in a timely manner.
- 10) The meeting was adjourned at 12:05 PM CST with the next meeting set for Milwaukee, WI on October 20<sup>th</sup>, 2021.

Respectfully submitted,

D. Schwartz, Secretary