

IEEE/PES Transformers Committee Working Group on Requirements
For Three-Phase Submersible Transformers (C57.12.24)

Meeting Minutes

Hyatt Regency Columbus OH

Tuesday, October 29, 2019

Knox Room

Members present,

Thomas	Dauzat	General Electric
George	Payerle	Carte International Inc.
Benjamin	Garcia	Southern California Edison
David	Blew	PSE&G
John	Chisholm	IFD Corporation
Douglas	Craig	Richards Manufacturing Co.
Craig	DeRouen	ERMCO
Larry	Dix	Quality Switch, Inc.
William	Elliott	General Electric
Carlos	Gaytan	Prolec GE
Said	Hachichi	Hydro-Quebec
Kenneth	Hampton	Baltimore Gas & Electric
Michael	Hardin	H-J Enterprises, Inc.
John	Harley	FirstPower Group LLC
Robert	Kinner	FirstPower Group LLC
		Consolidated Edison Co. of
Brad	Kittrell	NY
Brian	Klaponski	Carte International Inc.
Kent	Miller	T&R Electric Supply Co.
Michael	Morgan	Duke Energy
Daniel	Mulkey	Mulkey Engineering Inc.
Jarrold	Prince	ERMCO
Juan	Ramirez	CELECO
James	Ratty	Electronic Technology Inc.
Pedro	Salgado	Electronic Technology Inc.
Igor	Simonov	Toronto Hydro
James	Spaulding	Fort Collins Utilities
Robert	Stinson	General Electric
Liz	Sullivan	Dominion Energy
Michael	Thibault	Pacific Gas & Electric
Alan	Traut	Howard Industries
Jeremy	Van Horn	IFD Corporation
John	Vartanian	National Grid

Guests present,

Scott	Abbott	PPG Industries
Nitin	Adishesadrirao	Power Partners, Inc.
Jerry	Allen	Metglas, Inc.
Glenn	Andersen	Fayetteville PWC
Poorva	Bedge	Fort Collins Utilities

Kevin	Biggie	Weidmann Electrical Technology
John	Eastman	ZTZ Services International
Pam	Edwards	Central Moloney, Inc.
Matthew	Enders	Oncor Electric Delivery
Sanford	Fong	Georgia Power Co.
Fredric	Friend	American Electric Power
Zoran	Goncin	Partner Technologies Inc.
Jeffery	Henry	Mapes & Sprowl
Ramadan	Issack	American Electric Power
Charles	Johnson	ABB Inc. Northeast Transformer Services
Gilbert	Kozer	PPG Industries
Maria	Lamorey	M&I Materials, Inc.
Jinesh	Malde	MarVen
Terence	Martin	Metglas, Inc.
Bene	Martinez	Lamination Specialties
Daniel	Martinez	Marx Associates, Inc.
Robert	Marx, Sr.	Cargill, Inc.
Brian	McBride	EATON Corporation
Justin	Minikel	Central Moloney, Inc.
Roger	Owens	Weidmann Electrical Technology
Barbara	Patoine	Howard Industries
Chris	Pitts	Georgia Power Co.
Robert	Reepe	Custom Materials, Inc.
Clemens	Reiss IV	Dynamic Ratings, Inc.
Christopher	Rutledge	Maschinenfabrik Reinhausen
Stefan	Schindler	Quality Switch, Inc.
Dan	Schwartz	Quality Switch, Inc.
Jeremy	Sewell	Pepco Holdings
Avijit	Shingari	BROCKHAUS MESSTECHNIK
Stefan	Siebert Siebert-	
Audrey	Timmer	IFD Corporation
Adrian	Silgardo	IFD Corporation
Edward	Smith	H-J Family of Companies
Christopher	Sullivan	Westmark Partners
Richard	Tellez	Siemens S.A.
Eric	Theisen	Metglas, Inc.
Joshua	Verdell	ERMCO
Shelby	Walters	Howard Industries
Chris	Wilford	Cam Tran Co.
Alan	Wilks	Consultant
Peter	Zhao	Hydro One

C57.12.24 Meeting Minutes March 26, 2019

The meeting was called to order at 9:30 am in the Knox Room of the Hyatt Regency Columbus OH Tuesday October 29, 2019. As of this meeting, Ben Garcia is the new chair, Tom Dauzat is vice-chair and George Payerle remains as secretary. There were 30 members and 45 guests in attendance. There was a quorum. Seven guests requested membership. Membership changes from the Anaheim meeting and the Columbus meeting will be announced at the Charlotte meeting. Kent Miller moved to approve the agenda and Said Hachichi seconded. The motion passed unanimously.

Brian Klaponski moved to accept the minutes of the Anaheim meeting and Jeremy Sewell seconded. The minutes were approved unanimously. Introductions were made. The chair showed the patent slides. There were no disclosures. The chair showed the copyright slides.

The Chair noted that work on the PAR was begun at the S19 Anaheim meeting. It will expire December 31, 2023. We have 5 working meetings including the current Columbus meeting to finalize the draft and get it to review and resolve comments.

Old business: - work will continue on table 6 Minimum Material Thicknesses from the standard.

Tom Dauzat presented his findings from salt spray testing samples for 1000 hours. Details of his presentation will be posted on the website. He will bring samples to the Charlotte meeting. Among his findings was the fact that some samples actually gained weight. The thinking was that the salt actually worked its way into the steel or that possibly the residual salt on the samples attracted moisture from the air after the test. Results of the testing may prompt a reevaluation of the numbers in Table 6.

The chair asked for utility volunteers to look over sections of the spec. He received 7 volunteers who will each look over one section. Volunteers were Jim Spaulding, Ken Hampton, Dan Mulkey, Brian (who will have his staff look over the entire document) Chris Rutledge, Ben Garcia, and Dave Blew. Otherwise each person will review one section. There are 7 sections.

Bud Stinson made a motion to complete the current testing then do an additional test lasting 3000 hours. Brian Klaponski seconded. That test will be done on 304SS, 409SS and copper bearing steel. The motion passed unanimously.

The meeting was adjourned at 10:52 AM. The next meeting will be in Columbus, OH on October 29, 2019.

Respectfully Submitted by: Ben Garcia, Chairman C57.12.24 Working Group