

# Distribution Transformer Subcommittee

## Task force / Working Group Report

Document #: PC57.19.02

Document Title: Standard for Design and Performance Requirements for Bushings Applied to Liquid Immersed Distribution Transformers

Chair: Steve Shull Vice-Chair: Ed Smith  
 Secretary: Rhett Chrysler Percent Complete: 60

Current Draft Being Worked On: D2.0 Dated: April 2021

Meeting Date: November 16, 2021 Time: 10:50 am – 12:05 pm

**Attendance:**

NAME	Affiliation	M or G	Name	Affiliation	M or G	Name	Affiliation	M or G
Alan Traut	Howard Industries	M	Janusz Szczechowski	Maschinenfabrik Reinhausen	G	Pragnesh Vyas	Sunbelt-Solomon Solutions	M
Alan Wilks	Consultant	M	Jeff Benach	Megger	G	Rakesh Patel	Hitachi Energy	G
Albert Sanchez	Knoxville Utilities Board	G	Jeffrey Door	H-J Family of Companies	G	Ramadan Issack	American Electric Power	M
Ali Ghafourian	H-J Enterprises, Inc.	M	Jerry Murphy	Reedy Creek Energy Services	M	Rehan Ali	Siemens Energy	G
Andrew Larison	Hitachi Energy	G	Jorge Cruz	PTI Transformers	M	Reinaldo Valentin	Duke Energy	M
Angela Amador	EATON Corporation	G	Jose Gamboa	H-J Family of Companies	M	Rhett Chrysler	ERMCO	SEC
Barry Beaster	H-J Family of Companies	M	Joshua Verdell	ERMCO	M	Robert Reepe	Georgia Power Co.	G
Carlos Gaytan	Prolec GE	M	Juan Ramirez	CELECO	M	Ronald Hernandez	Doble Engineering Co.	G
Chris Pitts	Howard Industries	G	Katrina Swanson McLeod	Southern Nuclear	G	Said Hachichi	Hydro-Quebec	M
Christopher Whitten	Hitachi Energy	G	Kendrick Hamilton	Power Partners, Inc.	G	Shelby Walters	Howard Industries	M
Daniel Huenger	PCORE Electric	G	Lee Matthews	Howard Industries	G	Stefan Schindler	Maschinenfabrik Reinhausen	G
Darren Brown	Howard Industries	M	Malia Zaman	IEEE	G	Stephen Shull	BBC Electrical Services, Inc.	CHR
David Stockton	Stockton Consulting	M	Manoj Kumar Mishra	ASAsoft (Canada) Inc	G	Thomas Callsen	Weldy-Lamont Associates	M
Donnell Rackley	RESA Power	G	Marek Kornowski	Polycast International	M	Timothy Menter	Lincoln Electric System	G
Edward Smith	H-J Family of Companies	VCHR	Mario Locarno	Doble Engineering Co.	G	Timothy Tillery	Howard Industries	M
Eric Weatherbee	PCORE Electric	M	Martin Rave	ComEd	M	Troy Tanaka	Burns & McDonnell	G
Fabian Stacy	Hitachi Energy	M	Michael Dahlke	Central Moloney, Inc.	M	Vinay Patel	Consolidated Edison Co. of NY	G
Gary King	Howard Industries	G	Michael Morgan	Duke Energy	M	Kendrick Hamilton	Power Partners, Inc.	G
Huan Dinh	Hitachi Energy	M	Michael Thibault	Pacific Gas & Electric	G	Weijun Li	Braintree Electric Light Dept.	M
Hugo Flores	Hitachi Energy	M	Orlando Giraldo	H-J Family of Companies	G	William Solano	Instrument Transformer Equip Corp	M
Israel Barrientos	Prolec GE	M	Parminder Panesar	Virginia Transformer Corp.	G	Yves Vermette	Electro Composites ULC	M
Jacques Vanier	Electro Composites (2008) ULC	G	Peter Zhao	Hydro One	M	Zoran Goncin	PTI Transformers	G

**Meeting Minutes:**

The chair called the meeting to order at 10:50 am.

There 68 persons in attendance with 3 guests requesting membership. Attendance is shown in the table above. A quorum was established via a WebEx poll with 33/57 (58%) members participating.

The chair presented the IEEE SA slides for Essential Patent Claims. The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or patent

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claim(s)/patent application claim(s) of which the participant is personally aware, and that may be essential for the use of this standard. None were identified.

The chair presented the IEEE SA Copyright Policy. He commented that the IEEE-SA's copyright policy is described in Clause 7 of the *IEEE-SA Standards Board Bylaws* and Clause 6.1 of the *IEEE-SA Standards Board Operations Manual*. The Chair stated that any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE-SA Copyright Policy.

The Chair displayed the Agenda for this meeting. The Chair asked for any changes or additions to the displayed Agenda. Hearing none, the Chair declared the Agenda approved as shown.

The Chair stated that the Meeting Minutes of the last meeting were posted on the Transformer Committee website. The Chair asked for any additions or modifications to the Meeting Minutes. Hearing none, the Chair declared the minutes approved as posted.

### Old Business

Review of C57.19.02 – Draft 2.0.

The Chair noted in the spring meeting this document was posted for comment. The Chair received no comments or revision requests for this document draft. There was a question regarding document references to C57.19.00, after brief discussion no concerns were noted.

### New Business

The Chair asked the group if this document was ready for ballot? Jerry Murphy made a motion to "Move the current draft revision 2.0 of PC57.19.02 to Ballot". The motion was seconded by Hugo Flores. The Chair stated that a 2/3 majority vote of the present WG members would be required for this motion to pass. There was no discussion, and a WebEx poll was presented for the membership vote which resulted in the following results:

The motion passed.

Vote Overview	
FOR	30
AGAINST	1
ABSTAIN	3

No other new business was brought forward and the meeting was adjourned at 11:05 am.

The next meeting is scheduled for the Spring 2022 Transformer Committee meeting.

Submitted by: Rhett Chrysler

Date: 11/17/2021