

Standards Committee 04 (SC04)

Evanne Wang for Dr. Nancy Frost

IEEE/PES Transformers Committee

March 24, 2025

Denver, CO

Scope

- *Standards Committee 04 oversees development of standards for Electrical Insulation that span the scope of multiple Technical Committees and Societies (e.g., Dielectric and Electrical Insulation, and Power Engineering) within IEEE. Reporting to IEEE PES Transformers Committee as well as IEEE SESCom.*
- **Scope:**
 - To formulate guiding principles for the evaluation of insulation materials and systems for electrical and electronic applications.
 - To formulate principles for the identification of insulation materials and systems based on functional tests and/or experience.
 - To coordinate the preparation of standards for functional test programs and diagnostic methods for the evaluation of insulation materials and systems.

Standards

- **IEEE 1-2000 (R2011)** Recommended Practice – General Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation
- **IEEE 98-2016** Standard for the Preparation of Test Procedures for the Thermal Evaluation of Solid Electrical Insulating Materials
- **IEEE 99-2019** Recommended Practice for the Preparation of Test Procedures for the Thermal Evaluation of Insulation Systems for Electrical Equipment

Current Activities

- **IEEE 1** - Standard expired 12/31/2021. Current PAR was extended to 12/31/2026, as the standard is in the ballot process. The ballot closed 02/20/2025, with 119 votes. The leadership is scheduling comment resolution meetings to start mid-March.

Join us: IEEE 1 Chair – Brad Greaves (brad.greaves@weidmann-group.com)

- **IEEE 98** - This standard is the next in the series to be revised. Interest from other standards that utilized IEEE 98 is being gathered from IEEE PES as well a IEEE NPE, in an effort to be more seamless and proactive in potential updates to the standard. It is anticipated to initiate work on this standard in 2025.

Join us: SC04 Chair - Nancy Frost (DrNancyFrost@gmail.com)

- **IEEE 99** - Revisions to this standard are on hold until IEEE 98 is completed.
- **SC04 membership** - SC04 roster has had several expert retirements. If you have interest and are knowledgeable in this area, please contact the SC04 chair.

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Participate

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