

ASTM Committee D27 Electrical Insulating and Gases Liaison Report

Thomas Prevost

IEEE/PES Transformers Committee

October 16, 2018

Jacksonville, Florida

AGENDA

Introduction to ASTM D27

Current Hot Topics

Future Meetings

Committee D27 on Electrical Insulating Liquids and Gases

ASTM Committee D27 on Electrical Insulating Liquids and Gases was formed in 1959. D27 meets twice each year, in November and May, with about 30 members participating in 12 meetings over two days. The Committee, with a membership of approximately 90 members, currently has jurisdiction of over 60 approved standards that are published in the Annual Book of ASTM Standards, Volume 10.03

D27 Committee Scope

The promotion of knowledge pertaining to electrical insulating liquids and gases, whether of synthetic or natural origin, and the recommendation of standards pertinent to these materials.

The principal materials included in this scope are oils of petroleum origin, synthetic liquids, halogenated and other gases, when used, singularly or as combinations, as electrical insulation or as an environment for electrical insulation.

Standards peculiar to solid insulating materials and varnishes and the development of standards pertaining to the nonelectrical uses of liquid and gaseous materials are excluded from the scope of Committee D27. Development in these fields incidental to the normal work of Committee D27 will be coordinated with the appropriate technical committees of the Society.

Committee Officers

Chairman: Janet V. Lloyd

Vice-chairman: Lance R. Lewand

Secretary: Edward W. Casserly

Staff manager: Kelly Paul

Admin assistant: Marianne McKeever

Editor: Christine Leinweber

Subcommittees

D27.01 Mineral

D27.02 Gases and Non-Mineral Oil Liquids

D27.03 Analytical Tests

D27.05 Electrical Test

D27.06 Chemical Test

D27.07 Physical Test

D27.15 Planning Resource and Development

D27.90 Executive

D27.91 I.E.C. TC 10 and Advisory

D27.95 Awards, Special Events, and Bylaws.

ASTM D27 Hot Topics

Subcommittee Reports

D27.01 - Mineral Oils, Jimmy Rasco:

- The new standard specification for rerefined mineral insulating oil (WK31231) received six (6) negative votes and three (3) comments.
- The revision of D117 “Standard Guide for Sampling, Test Methods, and Specifications for Electrical Insulating Oils of Petroleum Origin” (WK51721) received two (2) negative and six (6) comments.

D27.02 - Gases and Non-Mineral Oil Liquids, Denis Lafrance:

- The new standard specification for synthetic esters (WK46195) received one (1) negative and eleven (11) comments.

ASTM D27 Hot Topics

D27.03 - Analytical Tests, Claude Beauchemin:

- The new standard method for the determination of methanol and ethanol (WK30948) received three (3) negatives and five (5) comments.

D27.05 - Electrical Tests, Sandra Smith:

There were no closed ballot actions since the last meeting.

D27.06 - Chemical Tests, Lance Lewand:

There were no closed ballot actions since the last meeting.

D27.07 - Physical Tests, William Hand:

There were no closed ballot actions since the last meeting.

D27.95 - Awards, Special Events, Bylaws, Clair Claiborne:

- There was a reception Monday evening for the presentation of the Award of Merit to Kevin Rapp.

ASTM D27 Hot Topics

D27.15 - Planning, Resources and Development, Kevin Rapp:

- On Monday, Professor Massimo Pompili of the University of Rome conducted a symposium on “Partial Discharge Measurements in Dielectric Liquids”.
- The term Unused will be balloted in a revision of D2864. IEEE currently uses New since there is not an official definition of Unused.
- There will be a special meeting on partial discharge at the Nov, 2018 meeting in Washington, DC. It will be held the afternoon of Sunday, Nov 4.
- There will be a symposium at the Nov, 2018 meeting in Washington, DC on water measurements by Karl Fischer (D1533) and Evaporative Stripping by Tom Prevost.

D27.91 - IEC TC 10 Advisory, Kevin Rapp:

Kevin Rapp presented the IEC TC 10 Advisory report.

Future Meetings

Nov 4 – 6, 2018; Washington Hilton; Washington, DC

May 12 – 14, 2019; Sheraton Denver Downtown Hotel; Denver, CO

Nov 3 – 5, 2019; Marriott Marquis; Houston, TX