

Subject 1446

August 10, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Systems of Insulating Materials - General, UL 1446, are being proposed:

1. Elimination of requiring a varnish in a varnish required system

STP BALLOTS AND ALL COMMENTS DUE: September 10, 2018

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<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 1446 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Megan.Monsen@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Elimination of requiring a varnish in a varnish required system

RATIONALE

Proposal submitted by: Michael McKeiver, Dupont Advanced Fibers Systems

The present text is restrictive and the proposed text is inclusive. There is a need to be able to evaluate an established EIS in situations where:

- 1) there is a need to determine whether one of the original thicknesses or materials is not required, or
- 2) a material in the established EIS is no longer available

Both 1) and 2) above are for the evaluation of the established EIS at a different voltage stress level.

PROPOSAL

SA7 Insulation Systems - One Temperature Thermal Aging

SA7.1 General

SA7.1.1 A one temperature thermal aging program is able to be used instead of full thermal aging in order to evaluate certain system modifications, such as the following:

- a) As an alternative to a chemical compatibility test when adding NIM components.
- b) ~~Reduction of thickness for a ground, interwinding, or encapsulating insulation material.~~
Reduction of thickness of any EIM in the EIS, including reduction down to a zero level.
- c) Qualification of an alternate varnish/magnet wire combination whose thermal indices are no more than one temperature class lower than those of the varnish used in the originally evaluated system, and whose twisted pair thermal indices are less than that of the unvarnished magnet wire. See Section SA5.
- d) Evaluation of a lead wire which is rated more than 5°C (9°F) below the system temperature class rating whereby one or both of the following conditions are met:
 - 1) The lead wire is in direct contact with the windings or enters the outer wrap.
 - 2) The rated temperature of the lead wire is below that referenced in Table 5.1.

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