

Subject 1703

August 24, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Flat-Plate Photovoltaic Modules and Panels, UL 1703, are being proposed:

1. Removal of Surface Tension Requirement in paragraph 27.2.

STP BALLOTS AND ALL COMMENTS DUE: September 24, 2018

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

1. Removal of Surface Tension Requirement in paragraph 27.2.

RATIONALE

Proposal submitted by: Kent Whitfield, UL LLC

MST 17, Wet leakage current test, in the Standard for Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing, UL 61730-2, refers to the Standard for Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test Procedures, IEC 61215-2, MQT 15, with the same test name. MST 17 no longer requires a surface tension requirement to the test solution, only conductivity and temperature. This proposal is to provide consistency between the two documents by removing surface tension requirements from UL 1703.

PROPOSAL

27.2 The laminate portion of the module or panel is to be immersed in a non-corrosive liquid agent (surfactant) solution. The liquid agent is to have 35 ohm-meter maximum resistance, ~~0-03 N/m maximum surface tension~~, and a temperature of $22 \pm 3^{\circ}\text{C}$ ($72 \pm 5^{\circ}\text{F}$). Terminal boxes and pigtail-leads or other connectors are to be maintained above the solution level and are to be thoroughly wetted by pouring the solution over these areas. Uninsulated terminations are not to be wetted.

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