Subject 1240

January 26, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Electric Commercial Clothes-Drying Equipment, UL 1240, are being proposed:

1. Clarification of endurance cycles for control devices

STP BALLOTS AND ALL COMMENTS DUE: FEBRUARY 26, 2018

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 2157, UL is looking for participants in all interest categories other than Producer. Definitions for these interest categories are available on the Standards STP Internet site:

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

If you are interested in applying for STP 2157 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, ross.wilson@ul.com.

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

1. Clarification of endurance cycles for control devices

RATIONALE

Proposal submitted by: Darrin Conlon, UL LLC

This proposal is intended to clarify the endurance cycles for operating and protective control devices, and documents present practice in the application of these requirements.

PROPOSAL

20A.3.4 Controls that manage a SCF and that does not rely on software, shall comply with the standards specified in 20A.3.2 except for Controls Using Software, H.11.12, in the Standard for Automatic Electrical Controls – Part 1: General Requirements, UL 60730-1. If software is relied upon to perform the protective control function, it shall be considered Software Class B as indicated in Table 20A.2.

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Table 20A.2
Protective control correlation table

(See 20A.3)

Information	Protective control requirement
FMEA	Conduct a failure-mode and effect analysis (FMEA) identifying component failures which may result in a risk of fire, electric shock or injury and confirming the protective function continues to operate as intended.
Operating ambient	Determined in accordance with Section 36, Temperature Test, of the appliance.
Endurance testing for electromechanical devices	a) 6, 000 cycles for controls as indicated in 20A.5, 20A.6, 20A.7, and for manual, non-self-resetting temperature-limiting devices (see 38.6), and other manual, non-self-resetting protective controls. b) 100,000 cycles, for automatic, self-resetting temperature-limiting controls, combination temperature-limiting and regulating controls, and other automatic, self-resetting protective controls (see 38.6)
Overvoltage category	Overvoltage Category II
Pollution degree	See 24A.4
Radio-frequency electromagnetic field immunity to conducted disturbances	Test Level 3
Radio-frequency electromagnetic field immunity to radiated electromagnetic fields	Field strength of 3 V/m
Fast transient bursts	Test Level 3 applied for 1 minute in each polarity
Surge immunity	Installation Class 3
Electrostatic discharge	Severity Level 3
Thermal cycling for electronic devices	14 days, Assumed temperature range: 10.0 +2 °C to the operating ambient
Software class	Software Class B (See 20A.3.4)

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