

Subject 621

December 29, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Safety For Ice Cream Makers, UL 621, are being proposed:

1. Revisions To Control Requirements

STP BALLOTS AND ALL COMMENTS DUE: January 29, 2017

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 621, UL is looking for participants in the Supply Chain, Commercial/Industrial User, AHJ, General, Government, International Delegate and Consumer interest categories. 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 621 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, wilbert.fletcher@ul.com

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

1. Revisions To Control Requirements

RATIONALE

Proposal submitted by: Randall Haseman, UL LLC

After October 2018, UL 353 (Standard for Safety for Limit Controls) and UL 873 (Standard for Safety for Temperature-Indicating and -Regulating Equipment) will be withdrawn and replaced by the UL 60730 series of standards (Standard for Safety for Automatic Electrical Controls for Household and Similar Use).

Additionally, the UL appliance standards are moving away from legacy control standards, and towards a two-path approach to evaluating controls: (1) use the UL 60730 series of standards, or (2) use the UL 60335-1 based electronic circuit requirements as referenced in Supplement SA.

Also, for the proposed revisions to Table 17.4, for the field strength value for radiated EMI, the 3V/m was chosen because UL 60730-1, 3rd edition had this value and it was also the default value in UL 991. Over the years, enhanced technology used in communication circuits for common household appliances have pushed the need to look at higher levels. Therefore, safety standards such as UL 60730-1 and UL 60335-1 have revised their requirements to consider the 10 V/m that corresponds to test level 3 of IEC 61000-4-3. So, for protective controls a test level 3 is used. This proposal is intended to align with these standards and revise Table 17.4 accordingly.

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It should be noted that these proposed changes are not driven by the need to address hazards or CPSC recalls or the like. The STP needs to consider whether the UL 621 industry will still use UL 353 and UL 873 devices before withdrawing these references from UL 621. All the devices certified to UL 873 or UL 353 could be certified to UL 60730-1 and either UL 60730-2-6 (Automatic Electrical Controls - Part 2-6: Particular Requirements for Automatic Electrical Pressure Sensing Controls Including Mechanical Requirements), or UL 60730-2-9 (Automatic Electrical Controls - Part 2-9: Particular Requirements for Temperature Sensing Controls).

The proposal below reflects the deletion of the option to use controls certified to UL 873 and UL 353.

PROPOSAL

17.22 Controls shall comply with Supplement SA or one of the appropriate standards in Table 17.2 for its inherent safety under the specified parameters/conditions noted in Table 17.3.

Table 17.2
Controls – standards for inherent safety

Purpose of the control	Applicable standards
Temperature sensing control	~~UL 873~~ /UL 244A; or UL 60730-1 and UL 60730-2-9
Pressure controls	~~UL 873~~ /UL 244A; or UL 508; or UL 60730-1 and UL 60730-2-6
Motor and speed controls	~~UL 873~~ ; or UL 508; or UL 508C; or UL 244A; or UL 60730-1
Timers	UL 244A; or UL 60730-1 and UL 60730-2-7
Liquid level controls	UL 244A; or ~~UL 873~~ ; or UL 508; or UL 60730-1 and UL 60730-2-15
Limit controls	~~UL 353~~ 60730-1 and UL 60730-2-6 or UL 60730-2-9

17.23 Unless specified elsewhere in this standard protective (safety) controls where the control functions are being relied upon to reduce the risk of fire, electric shock or personal injury during abnormal operation of the equipment shall additionally comply with Supplement SA or one of the appropriate standards in Table 17.4 using the specified functional safety test parameters/conditions.