

Subject 1795

October 20, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Hydromassage Bathtubs, UL 1795, are being proposed:

1. Revisions to the control requirements

STP COMMENTS DUE: November 20, 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 1795, UL is looking for participants in the AHJ, Commercial/Industrial Users, Consumer, General Interest, Government, Supply Chain 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 1795 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Grace Roh@ul.com.

The following topic is for STP member comment. Subscribers and public review participants are invited to comment.

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

1. Revisions to the control requirements

RATIONALE

Proposal submitted by: Gary Siggins, 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for Limit Controls) and UL 873 (Standard for Safety for Temperature-Indicating and -Regulating Equipment) will be withdrawn and replaced by the UL 60730 series of standards (Standard for Safety for Automatic Electrical Controls for Household and Similar Use).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 the legacy control standards, and towards a two-path approach to evaluating controls: (1) The UL 60730 series of standards (Supplement SB of UL 1795 - Standard for Hydromassage Bathtubs), or (2) The UL 60335-1 (Standard for Safety for Household and Similar Appliances, Part 1: General Requirements) based electronic circuit requirements as referenced in Supplement SA.

It should be noted that these proposed changes are not driven by the need to field reports, CPSC recalls, or the like. The changes are being proposed to facilitate better alignment of UL 1795 with the UL 60335 and UL 60730 family of standards. The STP needs to consider whether the hydromassage

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bathtub industry will still use devices certified to UL 353 and UL 873 before withdrawing these references from UL 1795. All the devices certified to UL 873 or UL 353 could be certified to UL 60730-1 (Standard for Safety for Automatic Electrical Controls – Part 1: General Requirements) 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).

A separate related topic is the use of controls certified to UL 244A (Standard for Safety for Solid-State Controls for Appliances) and UL 917 (Clock-Operated Switches). Neither of these standards is scheduled to be withdrawn. Although controls evaluated to these requirements have had a good field history, the requirements reflect a North America centric set of requirements different from that in the UL 60335 appliance standards or the UL 60730 set of controls standards. Any control under the scope of UL 917 could be addressed by the requirements of UL 60730-1 and UL 60730-2-7 (Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Timers and Time Switches). Any control certified to UL 244A could be investigated to UL 60730-1. The STP needs to consider whether the UL hydromassage bathtub industry will continue to use controls certified to UL 244A and UL 917.

The proposal below reflects the deletion of the option to use controls certified to UL 873, UL 353, UL 244A, and UL 917. It also removes the references to UL 991 (Standard for Safety for Tests for Safety-Related Controls Employing Solid-State Devices) and UL 1998 (Standard for Safety for Software in Programmable Components), since UL 60730 and the UL 60335-1 based circuit requirements in Supplements SB and SA include the relevant requirements for electronic circuits and software.

PROPOSAL

29.1 An electric motor shall comply with the Standard for Rotating Electrical Machines – General Requirements, UL 1004-1, except as noted below:

- a) The Current and Horsepower Relation, Cord-Connected Motors, Factory Wiring Terminals and Leads and Non-Metallic Functional Parts sections of UL 1004-1 are not applicable.
- ~~b) A solid-state control that complies with the Standard for Solid-State Controls for Appliances, UL 244A, is considered to fulfill the Motors Provided With Controls requirements of UL 1004-1. Compliance with the Standard for Automatic Electrical Controls – Part 1: General Requirements, UL 60730-1, and/or the applicable Part 2 standard from the UL 60730 series fulfills the requirements in UL 244A.~~
- ~~eb)~~ See 8.1 of UL 1795 for the applicability of the Frame and Enclosure (nonmetallic) requirements of UL 1004-1.
- ~~dc)~~ Metal enclosure requirements of UL 1004-1 are superseded by the requirements of Section 8 of UL 1795.
- ~~ed)~~ Grounding requirements of UL 1004-1 are superseded by the requirements of Section 17 of UL 1795.
- ~~fe)~~ The Ventilation Opening requirements of UL 1004-1 are only applicable where the openings are on surfaces considered to be the appliance enclosure (see Section 8 of UL 1795).
- ~~gf)~~ The Accessibility of Uninsulated Live Parts, Film-Coated Wire, and Moving Parts requirements of UL 1004-1 is superseded by Section 10 of UL 1795.

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