

Subject 749

August 17, 2018

SUMMARY OF TOPICS

The following topics for the Standard for Household Dishwashers, UL 749, are being recirculated:

1. Proposed Eleventh Edition of UL 749

COMMENTS DUE: OCTOBER 1, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated 2018-03-09 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposed Eleventh Edition of UL 749

RATIONALES

c) ~~Revision to the switch requirements~~

~~Proposal submitted by: Darrin Conlon, UL LLC~~

~~The requirements for switches in Clause 22.10 allow for the use of switches complying with The Standard for Special Use Switches, UL 1054, or the Standard for Switches for Appliances – Part 1: General Requirements, UL 61058-1; as well as the corresponding CSA switch standards.~~

~~The Standard for Special Use Switches, UL 1054, was withdrawn in June 2015, and was replaced by the Standard for Switches for Appliances – Part 1: General Requirements, UL 61058-1.~~

~~UL 61058-1 is a parameters-based (or declarative-type) standard, in the same way as UL 60730-1. These parameters, or the declared end-use ratings, must be specified in the end-product appliance standard, to give technical guidance to both end-use appliance manufacturers, as well as to switch manufacturers.~~

~~This proposal is intended to update UL 749 to specify the parameters necessary for the use of switches evaluated to UL 61058-1 and G22.2 No. 61058-1, and to delete the references to UL 1054.~~

~~The use of UL 61058-1 to certify appliance switches and the withdrawal of UL 1054 was implemented using UL's Continuing Certification Program, so there are still UL 1054 certified switches in the market. The STP needs to consider whether the UL 749 is still using UL 1054 switches before withdrawing references to UL 1054.~~

d) ~~Revisions to the control requirements~~

~~Proposal submitted by: Darrin Conlon, UL LLC~~

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After October 2018, UL 244A (Standard for Safety for Solid State Controls) and UL 873 (Standard for Safety for Temperature-Indicating and -Regulating Equipment) will be withdrawn and replaced by the UL 60730-series of standards (Standard for Safety for Automatic Electrical Controls for Household and Similar Use):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 electronic circuit requirements in Supplement SD.

With this in mind, this proposal 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 Supplement SD include the relevant requirements for electronic circuits and software:

Also, for the proposed revisions to Table 5, for the field strength value for radiated EMI, the 3V/m was chosen because IEC/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 IEC 60730-1 and IEC 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 5 accordingly.

The use of the UL 60730-series of standards to certify controls and the withdrawal of UL 244A and UL 817 will be implemented using UL's Continuing Certification Program, so there still will be UL 244A and UL 873 certified devices in the market. The STP needs to consider whether the UL 749 industry will still use UL 244A and UL 873 devices before withdrawing these references from UL 749:

e) Cycle selection controls — removal of UL 917 reference

Proposal submitted by: Darrin Conlon, UL LLG

After October 19, 2018, the fifth edition of UL 917 (Standard for Safety for Clock-Operated Switches) will be withdrawn and replaced by UL 60730-2-7 (Standard for Safety for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Timers and Time Switches):

Additionally, the UL appliance standards are moving away from legacy control standards, and towards using the UL 60730-series of standards or the electronic circuit requirements in Supplement SD.

The use of UL 60730-2-7 to certify timers and time switches and the withdrawal of UL 917 will be implemented using UL's Continuing Certification Program, so there will still be UL 917 certified clock operated switches in the market. The STP needs to consider whether the UL 749 industry will still use UL 917 devices before withdrawing references to UL 917:

PROPOSAL

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2 Reference Publications

Where reference is made to any Standards, such reference shall be considered to refer to the latest editions and revisions thereto available at the time of printing, unless otherwise specified.

UL Standards

UL 244A

Solid-State Controls for Appliances

UL 510A

Component Tapes

UL 873

Temperature-Indicating and -Regulating Equipment

UL 917

Clock-Operated Switches

UL 943

Ground Fault Circuit Interrupters

UL 991

Tests for Safety-Related Controls Employing Solid-State Devices

UL 1054

Special-Use Switches

UL 1998

Software in Programmable Components

15.11.1.1 An appliance shall be tested as specified in Clauses 15.11.1.2 – 15.11.2.6 to determine if cleaning the area of a dishwasher door that encloses line-voltage circuits, results in an increased risk of electric shock. This requirement is also applicable for unique exposure conditions on portable or free-standing models that could result in an increased risk of electric shock. As a result of the test, an appliance shall comply with Clauses ~~15.11.2.5~~ 15.11.2.4 and 15.11.2.6.

15.11.1.3 The appliance shall be isolated from the ground circuit by disconnecting with the normal grounding means ~~disconnected~~. The appliance shall be connected so that the component to be tested is on the ungrounded side of the supply. ~~Control~~ control knobs, guards, panels, and similar components that are located in the area to be cleaned, and ~~components that~~ are removable without the use of tools, shall be removed during the testing. Lamps shall be left in place.

Note: The term "grounding" as used in this clause relates to "bonding" in Canada.

15.11.2.2 For each of the following modes in Clauses 15.11.2.3 and 15.11.2.5, the saturated sponge shall be wiped six times using a pressure of approximately 8.9 to 13.4 N (2 to 3 lbf) applied to the metal-backed side, over all the areas described in Clauses 15.11.1.1 and 15.11.1.2. The sponge shall be wiped directly over low-profile switches (such as rocker switches). The sponge shall be re-saturated in the test cleaning solution after the third wipe as specified in Clause 15.11.1.6. Each wipe shall consist of a motion in one direction with sufficient coverage of the area under test, at a rate not to exceed 0.38 m/sec (15 in/sec).