

Subject 1018

January 27, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Standard For Safety For Electric Aquarium Equipment, UL 1018, are being proposed:

1. Construction Requirement Revision for Aquarium Appliances With Detachable Low Voltage Connections

STP BALLOTS AND ALL COMMENTS DUE: February 27, 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 1018, UL is looking for participants in the AHJ, Commercial/Industrial User, Government, International Delegate 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 1018 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. Construction Requirement Revision for Aquarium Appliances With Detachable Low Voltage Connections

RATIONALE

Proposal submitted by: KAM CHEONG TSOI, UL LLC

A household aquarium is located in indoor environments, such as a living room, which is not considered a wet location. Since the detachable non-immersible low voltage electrical connection of aquarium appliance is accessible and located close to the aquarium tank, there is a possibility of wet contact. The detachable wiring connection will need to meet Class 2 wet contact limit to reduce the risk of electric shock if dropped into the aquarium tank.

Based on similar consideration of ballast for reflector mounted on top of an aquarium tank in 10.1.11, a minimum of 5 feet is considered between power supply with output connections, meeting Class 2 voltage limits, and the point where the cord enters the non-submersible aquarium appliance located outside of the aquarium tank to reduce wetting of electrical connection to increase the risk of electric shock. The appliance shall be marked to identify the power supply unit and accessories intended to be connected. In addition, a submersible appliance is located at the bottom of the aquarium tank and needs a longer cord to reduce the wetting of the electrical connection.

These requirements represent present practice.

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This proposal impacts a construction requirement revision or clarification.

PROPOSAL

19.2 An interconnecting cable or flexible cord as described in 14.3.1 shall be permanently connected at the accessory or additional appliance end at the factory, and shall not be constructed, intended, or readily adaptable for field disconnection at that end.

Exception: For household indoor aquarium equipment, detachable low voltage non-immersed output connections of isolated power supply are allowed when the voltage does not exceed Class 2 wet limits in Table 71.1. When the voltage of these connections exceeds limits in Table 71.1 but within Class 2 limits, the detachable connection of power unit shall have:

a) minimum of 5 feet (1.52 m) from the point where the cord enters the non submersible aquarium appliance; and

b) minimum of 6 feet (1.83 m) from the point where the cord enters the submersible aquarium appliances.

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