

Subject 1340

October 24, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Safety for Hoists, UL 1340, are being proposed:

1. Wireless Controls

STP BALLOTS AND ALL COMMENTS DUE: November 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 1340, UL is looking for participants in the Supply Chain, Commercial/Industrial User, AHJ, Government, Testing & Standards, Consumer and 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 1340 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, griff.edwards@ul.com.

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

1. Wireless Controls

RATIONALE

Proposal submitted by: Chris James, UL LLC

The rationale for this proposal is to introduce requirements for wireless controls for electrically powered hoists. With the advancement in technologies, the need to evaluate a hoist that is designed to receive wireless communication is necessary.

The proposed requirements only evaluate the hoist receiver in response to a dedicated external communication. In addition to electrical shock and fire hazards, these requirements introduce specifications to address functional safety of the hoist. Such functions that shall be addressed are:

1. Result in unintentional movement of the hoist;
2. Result in unintended stoppage of movement of the hoist;
3. Render inoperative, override, supersede, or alter the response of any protective control or control functions; and

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4. Enable any functionality in the wireless hoist that is not available via the user-operated controls inherent to the wireless hoist. In addition to the aforementioned testing specifications, this proposal also requires that the system be designed so that the hoist requires “two” actions to start and “one” action to stop.

PROPOSAL

22A (New) XX Wireless Controls

22A.1 A hoist wireless receiver actuated in response to external communication signals or data shall not introduce a hazardous operating condition or state that results in an increased potential risk of electric shock, fire, or injury to persons.

22A.2 A wireless hoist system shall be designed so that two actions must be taken for the hoist to start and one action for the hoist to stop.

22A.3 When conducting a functional safety evaluation, the communication signals shall not:

- a) Result in unintentional movement of the hoist;
- b) Result in unintended stoppage of movement of the hoist;
- c) Render inoperative, override, supersede, or alter the response of any protective control or control functions; and
- d) Enable any functionality in the wireless hoist that is not available via the user-operated controls inherent to the wireless hoist.

22A.4 The functions in 22A.3 shall be determined when conducting the tests described in Sections 23 and 24.

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