

**U.S. Consumer Product Safety Commission  
LOG OF MEETING**

**SUBJECT:** STP 217 Meeting

**DATE OF MEETING(S):** January 30, 2020

**LOG ENTRY SOURCE:** Arthur Lee, ESEF

**DATE OF LOG ENTRY:** February 4, 2020

**PHYSICAL LOCATION:** UL RTP Office, 12 Laboratory Drive, Research Triangle Park, NC 27709-3995

**CPSC ATTENDEE(S):** Arthur Lee, ESEF

**DATE OF PARTICIPATION:** January 30, 2020

**NON-CPSC ATTENDEE(S):**

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**SUMMARY OF MEETING:**

The following topics were discussed at the meeting of the Standards Technical Panel for Smoke Detectors and Alarms, STP 217:

*1. Discussion of Wireless Interconnect Proposals*

*1A – Tom Cleary (NIST) presentation:  
Assessment of Wireless Smoke Alarm Interconnect Signal Delay on Safe Egress*

*2. Accelerated Battery Testing*

*3. 10-Year Alarm End-of Life Requirement*

*A – Discussion of preliminary proposal January 3, 2020*

*B – Discussion: Source of 10-year limit; is it possible to extend the time limit?*

*4. Addition of Aspirating Smoke Detector Requirements to UL 268*

*5. FPM Ratings for Detector Air Velocities (40.3 in UL 268/ULC-S529)*

## *6. Plan for UL 268B, Video Image Smoke Detection*

## *7. New Evacuation Plan Requirements*

## *8 Miscellaneous Items (Time Permitting)*

The main discussions were on the first three topics.

### 1. Discussion of Wireless Interconnect Proposals

No consensus was reached. The discussion was to examine the possibility or the maximum delay time between the initiating alarm and the wireless receiving alarms. The delay times discussed were between 10 to 60 seconds. The concern was battery powered wireless alarms having sufficient battery life to maintain the alarm during its polling for signals.

### 2. Accelerated Battery Testing

No consensus was reached. The discussion was about UL's research on the possible causes for lithium primary (CR123) cells being depleted faster than expected. Regardless of fast or slow current drain, the shorter than expected life appears to be related to the lithium content drying out and sticking to the separator.

### 3. 10-Year Alarm End-of Life Requirement

No consensus was reached. The discussion was to examine the possibility of extending the 10 year requirement for smoke alarms. It was noted that the NFPA 72 (2019) has wording to allow smoke alarms to exceed 10 years of operation if demonstrated by the manufacturer. It was discussed that the 10 year limit may be a warranty or liability concern for manufacturers, such that they may make their alarms shut off after 10 years and 30 days of operation.

Next meeting – It was proposed that the UL 217 STP should meet at least on a yearly basis. The next meeting was proposed to be around November 2020.