

# U.S. Consumer Product Safety Commission

## LOG OF MEETING

**SUBJECT:** STP UL 507 annual meeting

**DATE OF MEETING(S):** February 25, 2020

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

**DATE OF LOG ENTRY:** March 9, 2020

**PHYSICAL LOCATION:** Marriott Suites, Clearwater, Florida

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

**DATE OF PARTICIPATION:** February 25, 2020

**NON-CPSC ATTENDEE(S):** Refer to the UL Project Manager for STP 507 and 1042 for a list of attendees

### **SUMMARY OF MEETING:**

The following topics were discussed at the meeting of the Standards Technical Panel for Electric Fans and Power Ventilators:

#### 1. Status Reports from STP 507 Task Groups

*There was only one active task group, which was on topic 2 of the agenda, Fans for Use in Unattended Areas*

#### 2. UL 507 – Fans for Use in Unattended Areas

*The task group chair presented the changes that the working group has made to the proposal since it was submitted for Preliminary Review.*

*Summary of the presentation from the working group:*

##### Background

- February 2018 UL 507 STP meeting, CPSC staff presented the research documented in a CPSC report for exhaust fans.
  - Working group formed to develop a proposal over the next year
- February 2019 UL 507 STP meeting, the working group's draft proposal was presented to the STP.
- After the 2019 STP meeting, the working group incorporated comments and submitted a proposal for Preliminary Review for comments. It was issued in June 2019.
- After the comment period closed, the working group reviewed and addressed comments to the proposal
- Revised proposal for ballot issued in January 13, 2020. Ballot and Comments due February 27, 2020

##### Non-Technical Comments

- Corrected section numbering or the incorrect translation from the original submission to the published for Preliminary Review
- Modified Exception to address domestic (residential) and commercial fans
  - “Exception No. 1: These requirements do not apply to range hoods with integral blowers, downdraft fans with integral blowers, ceiling suspended fans, component fans, **polyphase commercial and industrial fans that are marked for commercial or industrial use**, and recreational vehicle fans rated 24 V or less.”
- Changed Exception to a Note
  - “Note: It is suggested that these modifications should be performed by the motor manufacturer at the time of assembly to reduce the possibility of invasive after-market alterations compromising ...”

#### Minor Technical Comments

- Address definition for supplemental overcurrent protection
  - For clarity and consistency, “over-current” was changed to “supplemental-fuse overcurrent protection”
  - UL 248-1 Low-Voltage Fuses - Part 1: General Requirements-14 defines overcurrent fuses.
    - UL 248 defines overcurrent protection as Supplemental-Fuse.
    - “2.2.7.5 **Supplemental fuse**  
**A fuse intended only for supplementary overcurrent protection where branch-circuit protection is not required.**
    - 2.2.7.7 Branch circuit fuse  
A fuse which is suitable for protection of distribution systems, wiring, or equipment. Examples of branch circuit fuses are Classes R, J, L, T, and CC.  
**A supplemental fuse, intended to protect equipment only, is not a branch circuit fuse.**

#### Major Technical Comments

- Incorporate alternate path for Failure Analysis Testing when all safety protections are bypassed
  - Primary and secondary (third, fourth,...) safety devices (thermal, overcurrent, others...) are bypassed
  - Impedance protection stays in the circuit (not bypassed)
  - Proceed directly to 179A.2 Fan motor failure analysis
  - 15 samples needed for the alternative path (same number as non-alternative path for use in 179A.2 Fan motor failure analysis)
- Fans using Secondary Protection that is overcurrent protection should be exempted from Heat Age testing
  - Working group discussed, but change was not made to current proposal
  - Alternative version of the proposal developed
  - Need more data - CPSC to conduct heat aging testing of over-current fuses
  - STP consideration and open for discussion

#### Flow Charts and Table

- Add Locked Rotor Testing box for Section 179A Motor Failure Analysis
- Simplify ignition of cotton validation in the flow chart
- Incorporate Section 179A.2.1 Exception No. 1 the Fan motor failure analysis alternate path into the flow chart
- Simplify Table 179A.2 and update to reflect alternate path

### 3. UL 507 – Status Update for the December 20, 2019 Ballot

*All December 20, 2019 ballots have reached consensus.*

### 4. UL 507 – Battery System Alternative, UL 2595

*Withdrawn*

5. UL 507/705 – Remote Software Downloads, UL 5500

*Withdrawn*

6. UL 507 – Pull Test for Detachable Cords

*No action*

7. UL 507 – Winding treatment for Fans Intended to be Exposed to the Weather

*No action*

8. Discussion of Industry Input of Possible Future Adoption of/Harmonization with UL 60335-1 and UL 60335-2-31, -2-65, and -2-80

*Harmonization was discussed, but no current action*