Subject 217 (268, 268A)

July 13, 2007

SUMMARY OF TOPICS

The following topics were discussed at the meeting:

1. Smoke Characterization Study

2. UL 217 Proposals – a) Use of Voice Message in Alarm Signal; b) Revised Descriptions of Smoke Box Air Circulation Fans; c) Additional Details of Jarring Test; and d) Packaging Marking Regarding Nuisance Alarms; e) Updated NFPA 72/11 Text References in Installation Instructions; f) Instructions on Nuisance Alarms; g) Revised Information Regarding Situations Where Smoke Alarms May Not Be Effective; h) Information Regarding Relative Performance of Ionization and Photoelectric Smoke Detectors, and i) Removal of Inaccurate Information in Section 65.2.1

3. UL 268 Proposals – a) Requirements Covering Aerosol Test Spray; b) Revised Descriptions of Smoke Box Air Circulation Fans; c) Removal of Inaccurate Information in Section 66.2; and d) Additional Installation Instruction Requirements for Projected Beam Type Smoke Detectors

4. Additional UL 217 Discussion Items

5. Update on Harmonization of ANSI/UL 268 & SCC/ULC-S529

6. Task Group Reports

7. Additional Agenda Item, UL 217 Proposal Requests – a) Silencing for Recreational RV's and Boats; b) Battery Operating Temperature Range - RV Smoke Alarms; c) Battery Operating Temperature Range - Marine Smoke Alarms

8. Additional Agenda Item, UL 268 Proposal Request – Extended Temperature Range Testing

A meeting of the Standards Technical Panel of UL for Smoke Detectors and Alarms, STP 217, was held on June 21, 2007 at the Northbrook Hilton in Northbrook, IL. The purpose of the meeting was to discuss proposals and issues concerning UL 217, UL 268 and UL 268A.

The purpose of the STP meeting report is to briefly summarize discussions held during the meeting, and to document any resulting outcomes, including planned future action.

CALL TO ORDER, ANNOUNCEMENTS, INTRODUCTION OF MEMBERS, GUESTS, AND OBSERVERS

Dan Ryan, the Chair of the STP, called the meeting to order at 8:30 am. The Chair introduced himself, welcomed all meeting attendees and requested that the attendees introduce themselves.

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The STP Chair reviewed the STP meeting process, agenda items, and requested additional agenda items that would be discussed during the meeting. The STP Chair also briefly discussed the STP process and ANSI's Essential Requirements, the handling of proposal requests, and expectations of an STP member: attendance at STP meetings (not required), and the STP member's responsibility to vote on all proposals set forth in UL's Collaborative Standards Development System (CSDS).

ANNOUNCEMENTS AND REPORTS FROM THE STP PROJECT MANAGER

Linda Phinney, substitute Project Manager for Paul Lloret, distributed UL's Patent Policy. The patent policy is available on the Standards STP Internet site at http://ulstandardsinfonet.ul.com/stp/patentpolicy.html. Comments or questions regarding the patent policy can be directed to Don Snyder at Donald.E.Snyder@us.ul.com.

The current balance of the STP was discussed at the meeting and is shown in the following table:

Interest Category	Number of Members	Interest Category	Number of Members
Producers	11	Government	1
Testing & Standards Organizations	5	Consumer	2
Supply Chain	0	General Interest	8
AHJs	8	Commercial/Industrial User	0

UL's goal is to have no interest category comprise more than one-third of the STP membership. As such, UL is currently looking for participants in the Supply Chain, Commercial/Industrial User, and Consumer interest categories for this STP. If you know of potential candidates in these interest categories, please contact the STP Project Manager. Definitions of the interest category classifications are available on the Standards STP Internet site, located at http://ulstandardsinfonet.ul.com/stp/index.html.

FUTURE MEETING SCHEDULE

A future meeting of STP 217 was not discussed. Under UL's standards development process, STP meetings are called by the STP Chair when the Chair determines that submitted proposals and/or discussion issues warrant a meeting of the panel. Stakeholders are encouraged to contact the chair if they have questions or suggestions regarding future STP meetings.

1. Smoke Characterization Study

DISCUSSION

The Smoke Characterization Project, a study by Tom Fabian, Ph.D, Pravinray Gandhi, P.E., Ph.D, Paul Patty, P.E. and Tom Chapin, Ph.D all of UL, was presented by Paul Patty. The project studied 27 synthetic and natural materials, and various combinations of materials now more commonly found in modern residences. The goal of the project was to characterize the different materials used in modern residential settings and their effect on fire behavior in homes.

The scope of the project was to develop smoke characterization analytical test protocol using flaming and non-flaming modes of combustion, and to develop smoke particle size distribution data and smoke profiles in the UL smoke detector room for materials commonly found in residential settings for both flaming and non-flaming modes of combustion.

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The objective of the project was to: A) Provide data and analysis to the alarm/detector/additive industries for several possible initiatives: To provide data for the development of new smoke sensing technology; B) Develop recommendations to the current residential smoke detector standard (ANSI/UL 217); and C) Provide data to facilitate new smoke suppression technologies and improved end products.

A copy of the Smoke Characterization Project presentation is included as supporting documentation in the meeting work area. From the meeting home page, click on ″View Supporting Documentation″ under ″Actions″ on the left side of the screen. Then click on the magnifying glass next to ″Smoke Characterization Project″ to view the presentation.

STP meeting attendees supported undertaking a task group to develop and advance proposals as advocated by the study conclusions and by the agenda discussion items submitted by Jay Fleming (See Topic 4, Items B and C). The Task Group on Smoke Test Profiles was formed at the meeting.

2. UL 217 Proposals – a) Use of Voice Message in Alarm Signal; b) Revised Descriptions of Smoke Box Air Circulation Fans; c) Additional Details of Jarring Test; and d) Packaging Marking Regarding Nuisance Alarms; e) Updated NFPA 72/11 Text References in Installation Instructions; f) Instructions on Nuisance Alarms; g) Revised Information Regarding Situations Where Smoke Alarms May Not Be Effective; h) Information Regarding Relative Performance of Ionization and Photoelectric Smoke Detectors, and i) Removal of Inaccurate Information in Section 65.2.1

DISCUSSION

a) Use of Voice Message in Alarm Signal, submitted by John Parssinen, UL – 34.3.2 and 34.3.2a) edited for clarity. 34.3.2b) returned to John for revision.

The STP members generally agreed with the proposals in this item. Upon revision of 34.3.2b), the proposals will be advanced to ballot in a CSDS work area in the near future.

b) Revised Descriptions of Smoke Box Air Circulation Fans, submitted by John Parssinen, UL – 37.3.3c) edited to remove the reference to the DC power supply.

The STP members generally agreed with the proposals in this item, therefore, the proposals will be advanced to ballot in a CSDS work area in the near future.

c) Additional Details of Jarring Test Alarms, submitted by John Parssinen, UL – The proposal has been returned to John Parssinen, who will re-work the proposal with Tom McNelis to include additional details regarding the mounting test of specimens. Once the proposal is re-submitted, it will be advanced to ballot in a CSDS work area.

d) Packaging Marking Regarding Nuisance, submitted by Jay Fleming, Boston Fire Department – This item has been assigned to the Task Group for Markings and Instructions Regarding Selection and Installation of Photo and Ion Detectors for review and further development.

e) Updated NFPA 72/11 Text References in Installation Instructions, submitted by John Parssinen, UL. The proposal was updated at the STP meeting to reflect the current edition of the National Fire Alarm Code. The revised proposal will be advanced to ballot in a CSDS work area in the near future.

f) Instructions on Nuisance Alarms, submitted by Jay Fleming, Boston Fire Department. This item has been assigned to the Task Group for Markings and Instructions Regarding Selection and Installation of Photo and Ion Detectors for review and further development.

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g) Revised Information Regarding Situations Where Smoke Alarms May Not Be Effective, submitted by Jay Fleming, Boston Fire Department. 94.1e) was revised to allow the manufacturer to determine the situations where the smoke alarm may not be effective and revise markings accordingly. The revised proposal will be advanced to ballot in a CSDS work area in the near future.

h) Information Regarding Relative Performance of Ionization and Photoelectric Smoke Detectors, submitted by Jay Fleming, Boston Fire Department. The language in 94.1g) should be obvious to the consumer, so this item has been assigned to the Task Group for Markings and Instructions Regarding Selection and Installation of Photo and Ion Detectors for review and further development. The task group was additionally charged with reviewing consistence of messaging between UL 217 and the National Fire Alarm Code prior to submitting proposed revisions.

i) An additional revision to 65.2.1 in UL 217 was proposed by Tom McNelis, ETL Semko, based on the proposed change to UL 268, 66.2.1 (in Item 3c, below). Tom noted that UL 217 and UL 268 should be consistent with the test methodology.

PROPOSAL

65.2.1 The sound power output of the alarm shall be measured in a reverberation room using procedures outlined in ANSI Standards S12.31 (Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms) or S12.32 (Precision Methods for the Determination of Sound Power Levels of Discrete Frequency and Narrow Band Noise Sources in Reverberation Rooms). The sound power in each 1/3 octave band shall be determined using the comparison method. The A-weighing factor shall be added to each 1/3 octave band. The total power is to be determined on the basis of actual power. The total power is then to be converted to an equivalent sound pressure level for a radius or 10 feet (3.05 m). ~~An additional 6db is to be added to allow for two reflecting planes.~~

The STP members generally agreed with the proposal and it will be advanced to ballot in a CSDS work area in the near future.

3. UL 268 Proposals – a) Requirements Covering Aerosol Test Spray; b) Revised Descriptions of Smoke Box Air Circulation Fans; c) Removal of Inaccurate Information in Section 66.2; and d) Additional Installation Instruction Requirements for Projected Beam Type Smoke Detectors

DISCUSSION

a) Requirements Covering Aerosol Test Spray, submitted by John Parssinen, UL – Proposed new Section 28.7 will be forwarded to the Task Group for Aerosol Test Sprays for further development.

b) Revised Descriptions of Smoke Box Air Circulation Fans, submitted by John Parssinen, UL – The STP members generally agreed with the proposed changes to 31.4.3, with a minor change to the laminar air flow. The revised proposal will be advanced in the standards process following conclusion of the current round of activity involving the publication of a new binational standard (ANSI/UL 268, SCC/ULC S529).

c) Removal of Inaccurate Information in Section 66.2, submitted by John Parssinen, UL – The STP members generally agreed with the proposed change to 66.2.1. The proposal will be advanced in the standards process following conclusion of the current round of activity involving the publication of a new binational standard (ANSI/UL 268, SCC/ULC S529).

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d) Additional Installation Instruction Requirements for Projected Beam Type Smoke Detectors, submitted by John Parssinen, UL – The STP members generally agreed with the proposed change to 76.1.8, with a change from ″blockage″ to ″obstruction″ for clarity. The proposal will be advanced in the standards process following conclusion of the current round of activity involving the publication of a new binational standard (ANSI/UL 268, SCC/ULC S529).

4. Additional UL 217 Discussion Items

DISCUSSION

4A) Concerns With Smoke Test Aerosols, discussion item submitted by Vic Humm, Vic Humm & Associates. This item was discussed in conjunction with the proposal on Smoke Test Aerosols, and the issues raised in this discussion item have been assigned to the new Task Group on Aerosol Test Sprays.

4B) Addition of Smoldering Test to UL 217, discussion item submitted by Jay Fleming, Boston Fire Department. This item was discussed in conjunction with the Smoke Characterization Study presentation, and the issues raised in this discussion item have been assigned to the new Task Group on Smoke Test Profiles.

4C) Addition of Smoldering Test (White Pine) to UL 217, discussion item submitted by Jay Fleming, Boston Fire Department. This item was discussed in conjunction with the Smoke Characterization Study presentation, and the issues raised in this discussion item have been assigned to the new Task Group on Smoke Test Profiles.

4D) Concerns With Use of Ionization Detectors Near Kitchens and Bathrooms, discussion item submitted by Jay Fleming, Boston Fire Department. This item has been assigned to the Task Group for Nuisance Alarm Related Markings and Instructions for discussion and development.

5. Update on Harmonization of ANSI/UL 268 & SCC/ULC-S529

DISCUSSION

The STP Chair summarized the formal harmonization process for UL and Canada, and provided an update on the current harmonization project for UL 268 and ULC S529, the Binational Standard for Smoke Detectors. A preliminary review of the standard has been completed and the comments have been forwarded to the Technical Harmonization Committee (THC) for comment resolution and the development of a revised draft.

It is anticipated that a revised document will be advanced in CSDS for review, comment, and ballot by the STP members and review/comment by subscribers to the standard. The proposed standard will concurrently advance through the ULC standards development process. Once the ballot and comment periods are over, if there are comments, the document would be sent back to the THC, or a joint meeting of the UL STP and ULC committee would be conducted for comment resolution.

A re-circulation may occur if comments suggest a revision of the standard document.

Otherwise, upon determination of consensus and a majority vote, the standard would be published as ANSI/UL 268 & SCC/ULC-S529, the Binational Standard for Smoke Detectors.

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