

LOG OF MEETING
OFFICE OF HAZARD IDENTIFICATION AND REDUCTION

SUBJECT: ANSI C18 Subcommittee on Portable Cells and Batteries (Includes General and Specifications and Safety Standards)

LOCATION: National Electrical Manufacturers Association, Rosslyn, Virginia

DATE: October 12 and 13, 2021

LOG ENTRY SOURCE: Doug Lee, Office of Hazard Identification and Reduction (EXHR)

COMMISSION ATTENDEES: CPSC staff attended virtually

Doug Lee, EXHR

Jill Hurley, Division of Human Factors (ESHF)

Jay Kadiwala, Division of Electrical Engineering and Fire Sciences (ESEF)

NON-COMMISSION ATTENDEES: (Some attended virtually)

Steven Wicelinski, Duracell, ANSI C18-0, Chair

Khaled Masri, NEMA Program Manager, ANSI C18 Secretary

Carin Stuart, Energizer, ANSI C18-6 Chair

Laurie Florence, UL LLC, C18-5 Chair

Christopher Brown, Duracell, Inc

John Hadley, Energizer Brands, LLC

Jody Leber, CSA Group

Doug Golde, Fisher-Price

Rodney Grimes, SGS North America

Ravi Vasudevan, Lansdowne Labs

Kawakami, Kazuyuki, Panasonic Corporation

Akinrori Awano, Battery Association of Japan

And others

MEETING SUMMARY:

During the two days of meetings, the subcommittee (SC) discussed general, specifications, environmental, and safety requirements for ANSI C18 standards for portable primary, secondary, and lithium batteries. The National Electrical Manufacturers Association (NEMA) is the standards developing organization for the ANSI C18 standards.

At the previous meeting, it was discussed that changes to Annex E (Packaging, warning labels, and pictograms for non-lithium button cells) in ANSI C18.1 Part 2 *Portable Primary Cells and Batteries with Aqueous Electrolyte - Safety Standard* are pending since the IEC 60086 Part 5: Safety of Batteries with Aqueous Electrolyte Final Draft International Standard (FDIS) is in the final balloting stage. The SC recommended to

wait until the IEC draft becomes official before drafting and balloting the ANSI C18.1 Part 2 Annex E.

The ANSI C18-6 Chair discussed that IEC 60086, Part 5 was published in September and the ANSI committee will begin drafting Annex E at the next meeting. CPSC staff continued to support the use of the signal word “WARNING” versus using “CAUTION” since “WARNING” is recommended by ANSI Z535.4 for Product Safety Signs and Labels. The C18-6 Chair took action to review a previous presentation on the signal words used on similar products in the market at the next meeting.

CPSC staff discussed Reese’s Law and provided a link to the press release and text of H.R. 5313.

Press Release Summary:

On Sep 21, 2021 Congresswoman Robin L. Kelly (D-IL), Congressman Jodey Arrington (R-TX) and Congressman Ted Lieu (D-CA) introduced Reese’s Law. The Bipartisan Legislation will direct the Consumer Product Safety Commission to Create Stronger Safety Standards for Products with Button Cell and Coin Batteries.

<https://robinkelly.house.gov/media-center/press-releases/reps-kelly-arrington-lieu-introduce-reeses-law-prevent-button-battery>

<https://www.govtrack.us/congress/bills/117/hr5313/text>

CPSC staff stated that a Notice of Proposed Rulemaking (NPR) recommending requirements for button/coin cell batteries and devices using these batteries is in their FY22 operating plan and staff are reviewing incident data and existing standards requirements.

The C18-6 Chair discussed an ad-hoc working group drafting a Technical Report (TR) to acquaint equipment and system application engineers with the possible hazards associated with lithium-ion batteries. This work was initiated by CPSC staff requesting to add recommended practices to the ANSI C18.5 standard to address recent field incidents with lithium-ion batteries. Additional information is provided in a separate meeting log.

The C18-5 Chair continued the discussion on *C18.5 Part 1 Portable Lithium Rechargeable Cells and Batteries-General and Specifications*. Topics for the revision include:

- Solid state rechargeable lithium performance
- New chemistries
- Wearables (i.e., virtual, mixed, augmented reality)
- Medical usage (i.e., remote sensing of heart, diabetic, etc.)
- New Form factors for cells
- Any IEC 61960 updates

This meeting log includes topics of specific interest to CPSC staff. Contact the NEMA Program Manager for ANSI C18 minutes which will include a summary of all topics discussed and a full list of attendees.