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

LOCATION: Virtual meeting
DATE: June 15 and 16, 2021

LOG ENTRY SOURCE: Huy Le, Division of Electrical Engineering and Fire Sciences (ESEF)

COMMISSION ATTENDEES:

Doug Lee, Office of Hazard Identification and Reduction (EXHR)
Huy Le, ESEF
Jay Kadiwala, ESEF

NON-COMMISSION ATTENDEES:

Steven Wicelinski, Duracell, ANSI C18-0, Chair
Khaled Masri, NEMA Program Manager, ANSI C18 Secretary
Carin Stuart, Energizer, ANSI C18-6 Chair
Laurie Florence, Sub-Group Chair, UL LLC
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
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.

The SC decided to wait to draft 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 publication of IEC 60086 Part 5: Safety of Batteries with Aqueous Electrolyte Final Draft International Standard (FDIS), which is in the final balloting stage.

Laurie Florence led a discussion on *C18.5 Part 1 Portable Lithium Rechargeable Cells and Batteries—General and Specifications*. She indicated that a Word copy of the current published C18.5M Pt.1 standard was sent to the Chair to initiate the revision. The SC will consider the following topics for inclusion in the revision:

- Organization of the document
- 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

The SC discussed the NEMA Lithium Ion Technical Report (TR), which was registered with ANSI as a Technical Report on April 3, 2020 and is being developed in accordance with the Procedures for the Registration of Technical Report with ANSI. The TR task group continues to meet every 6 weeks to develop the TR on lithium battery safety to address thermal events associated with LIBs. The TR is expected to take a couple of years to complete.

This meeting log includes the discussion topics of relevance to safety in which CPSC staff participated. Contact the NEMA Program Manager for ANSI C18 minutes which will include a summary of all topics discussed.