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**LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: ANSI C18 Subcommittees on Portable Cells and Batteries

DATE OF MEETING: October 19-20, 2010

PLACE OF MEETING: NEMA HQ, Rosslyn, Virginia

LOG ENTRY SOURCE: Doug Lee, ESEE

DATE OF LOG ENTRY: May 25, 2011

COMMISSION ATTENDEES: Doug Lee, ESEE

NON-COMMISSION ATTENDEES:

Ben Biroschak NEMA - Secretary
Michael Babiak, Energizer
Marcus Boolish, Energizer
Denis Carpenter, Rayovac
John Hadley, Rayovac
Charles Monahan, Panasonic
Ramesh Shah, Portable Power Consultants, LLC
Doug Golde, Fisher-Price
Akio Furukawa, Sanyo
Koji Sekai, Sony

SUMMARY OF MEETING:

The ANSI C18 1-5 subcommittees and C18-0 main committee met and discussed various items related to the revision of ANSI C18 standards, American National Standard(s) for Portable Rechargeable Cells and Batteries. Agenda items of significant CPSC interest are summarized below.

Lithium ion and polymer cells used in toys

Lithium polymer (LiPo) technology is often considered as lithium-ion. Members discussed proposing requirements for the inclusion of LiPo cells within ANSI C18.2M, Part 2 based on a previous meeting determination that these types of batteries should be included. The standard presently has requirements for lithium-ion cells but would need revising to add LiPo cells. Mr. Furukawa stated that the LiPo cells presently being manufactured are basically the lithium-ion cells manufactured using a flexible pouch as the external case in place of the rigid can.

Mr. Lee reported on the ASTM F963, Standard Consumer Safety Specification for Toy Safety, effort to add requirements to address hazardous battery incidents with toys. These requirements are nearing completion. The proposed ASTM F963 requirements developed by the ASTM task group refer to the ANSI C18 standards as well as IEC and UL equivalent standards for

certification requirements of lithium-ion and LiPo cells and batteries. The new requirements also added additional requirements for batteries used in sealed enclosures and additional safety labeling for toys using lithium coin cells.

Lithium Coin Cell Safety

Mr. Lee added lithium coin cell safety to the agenda for discussion based on incident reports during the previous year. Mr. Babiak and Mr. Boolish discussed some of the committees work to reduce hazards with coin cells. Previously, the ANSI C18 committee members revised ANSI C18.3M, Part 2 adding additional verbiage to the safety information section in order to heighten awareness of the dangers of battery ingestion. It was discussed that NEMA members and ANSI C18 have been active in various ways to reduce the hazard including a letter to manufacturers of electronic devices.

Temperature Limits

At the previous meeting Mr. Boolish discussed draft Annexes for C18.1 Part 2 and C18.2 Part 2 that provided maximum temperatures for cells during usage. The temperature requirements were similar to other standards including ASTM F963. Members agreed to review and prepare for comment at the next meeting.