

# IEC TC108 USTAG FEB UPDATE

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# IEC TC108 USTAG FEB UPDATE

- IEC TC108 USTAG Meeting held at UL LLC facility in Research Triangle Park, NC on Feb 20-21
- The next USTAG meeting is planned for a last week of August as preparation for the TC108 meeting in Busan, Korea in October.
  - The August meeting will be primarily dedicated to new work items for the IEC62368 -1, -2, -3 along with any pre-work required for the upcoming Plenary meeting in Busan.
- The next TC108 HBSDT meeting is on March 26–30, 2018 in Brussels at the CEN/CENELEC office.
- WW adaption

# IEC TC108 USTAG FEB UPDATE

- TC 108 Interpretation Panel Questions (IPQ)
- IEC 62368-1 ED3 108/688/CDV, Results of Voting
- IEC62368-1 - 3rd Ed, Unofficial FDIS 108-62368-1-ED3-IS-FDIS
- New Work Items
  - TC 108 Interpretation Panel Battery Question
- IEC 62368-2, Proposal for revision of IEC TR 62368-2, ed 2
- IEC 62368-3: Safety aspects for DC power transfer through communication cables and ports
- TC124, Wearable electronic devices and technologies

# SINIEC TC108 USTAG FEB UPDATE

- TC 108 Interpretation Panel Questions (IPQ)
  - IPQ 05 –The panel agrees that IEC 62471-5 should be used for image projectors instead of IEC 62471 while projectors with lasers need to comply with IEC 60825-1.
  - IPQ 06 – Application guidance on the Clause 4.1.1. Component requirements when used in IEC62368-1 products.
- IEC 62368-1 ED3 108/688/CDV, Results of Voting
  - The US comments were accepted or accepted in principle.
- IEC62368-1 - 3rd Ed, Unofficial FDIS 108-62368-1-ED3-IS-FDIS.pdf
  - USTAG agreed on a positive vote for this document (when available).

# SINIEC TC108 USTAG FEB UPDATE

## New Work Items - TC 108 Interpretation Panel Battery Question

- There has been considerable industry debate on whether the forced internal short circuit test (FISC) is required on lithium ion and lithium polymer cells. While IEC 62133 exempts lithium polymer cells from the FISC test, the application of testing amongst the various battery vendors is inconsistent.
- SC21A noted that the test is extremely dangerous, unreliable and difficult to reproduce as this test requires unrolling the pack and placing a nickel obstruction to create a breach upon impact. Hence, why only a few countries (France, Japan, Korea and Switzerland) require this test.
- The current implementation forces the end system manufacturer to conduct the FISC test on those batteries not tested at the component level.
- An expert paper will be written by Raju Desai and submitted with a proposal to the HBSDT

# SINIEC TC108 USTAG FEB UPDATE

IEC 62368-2, Proposal for revision of IEC TR 62368-2, Ed 2.

- To align IEC TR 62368-2 with the third edition of IEC 62368-1.
- Comments were reviewed and supported at the TAG meeting

# SINIEC TC108 USTAG FEB UPDATE

IEC 62368-3: Safety aspects for DC power transfer through communication cables and ports

- IEC 62368-3 was published on December 6, 2017
- This document has the status of a group safety function and deals with safety aspects for DC power transfer through communication cables and ports. Next to the well-known telephone systems, this document now also includes safety aspects for technologies such as USB power and PoE (Power over Ethernet). It covers particular requirements for circuits that are designed to transfer DC power from a power sourcing equipment (PSE) to a powered device (PD)

# SINIEC TC108 USTAG FEB UPDATE

## TC124, Wearable electronic devices and technologies

- Published New Proposals (NPs) that included "Low temperature skin burn safety test methods for band type on-body wearable electronic devices". These will be voted on before next TC124 meeting in May.
  - TC124 is not recognized as a product safety and they seem to be working in a 'horizontal way' that they have no authorization to do.
  - TC124 scope includes wide coverage of wearable devices and technologies, but excluding standardization for specific items in the field of several TCs including TC108. There could be significant confusion due to scope.
- TC124 prepares an IS or technical specifications for the safety test method which seems very much based on limits from Guide 117 but the method is something that may be useful for us in the future if it develops. for low temperature burn issue during the use of certain kind of wearable devices, and TC108 makes reference to it.



# SINIEC TC108 USTAG FEB UPDATE

## IEC 62368-1 3<sup>rd</sup> Ed. Worldwide Adoption

- **EU [CE & CENELEC] STATUS: EN 62368-1** - Jan. 2018
- EN 62368-1:2014 (2<sup>nd</sup> Edition) Cited under LVD in EU OJ (August 2016) with “Date of Cessation (DofC) = June 2019” It includes clause 4.1.1 the legacy component provision *CHANGES UNDER DISCUSSION*: a) DofC under LVD may be changed to Dec. 2020 (EU Com confirmation still desired)
- Draft Amendment EN 62368-1:2014/prAB:2018 under voting that includes deletion of Clause 4.1.1 and change of DOW to 2020
- EN 62368-1 3<sup>rd</sup> Edition - CENELEC will start voting on EN 3<sup>rd</sup> Ed. after publication of IEC 62368-1 3<sup>rd</sup> Ed.
- *CURRENTLY UNDER DISCUSSION*:
- If EN 2<sup>nd</sup> Ed. does not allow legacy component provision (see above), EN 3<sup>rd</sup> Ed. will neither allow it. Clear info will be available after voting results be published.
- WW adoption is slow and not synchronized so double certification would be required

