U.S. Consumer Product Safety Commission

MEETING LOG

PRODUCT: Nanotechnology

SUBJECT: ISO/TC 229 Nanotechnologies Working Group and U.S. TAG General Virtual Meetings to Discuss Current Projects and Potential New Work Item Proposals (NWIPs)

LOCATION: Teleconference

DATE: October 13-14, 2021

ENTRY DATE: October 15, 2021

LOG ENTRY SOURCE: Joanna Matheson (HSTR)

COMMISSION ATTENDEES: Treye Thomas (EXHR), Priscilla Verdino (LSC), Joanna Matheson (HSTR)

NON-COMMISSION ATTENDEES: Contact ANSI for a complete list.

MEETING SUMMARY:

ISO Technical Committee 229 (ISO TC/229) focuses on standardization in the field of nanotechnologies, understanding and control of matter and processes at the nanoscale where the onset of size-dependent phenomena usually enables novel applications, as well as use of nanoscale materials to create improved materials, devices, and systems that exploit these new properties. Specific working groups address the development of standards and guides for terminology and nomenclature; metrology and instrumentation; test methodologies; modelling and simulations; and science-based health, safety, and environmental practices.

On Wednesday October 13, 2021 and Thursday October 14, 2021, working groups of the US Technical Advisory Group (US TAG) to ISO Technical Committee 229 (ISO TC/229, Nanotechnology) met for a half-day, via teleconference, to continue the development of ISO/TC 229 projects in advance of the November 2021 virtual international meetings. The general meeting of the US TAG was held in the afternoon of October 14, 2021, during which the lead for each US TAG ISO/TC 229 working group provided a summary of the Wednesday or Thursday session discussions.

ISO TC/229 encourages proposals for new projects. Several new proposals were discussed by the working groups. These proposals include new projects regarding medical applications, ecotoxicity and one relating to nanoparticle interactions with protein structures, a project that staff will monitor. Two additional new proposed projects of interest to staff are on characterizing and measuring nanocomposites used for insulation, and, characterizing photocurable polymer resins containing nanocomposites for use in additive manufacturing.

Staff are particularly interested in a project proposed during the November 2020 meetings for development of a test method for the detection of nano-objects released from respiratory masks/media. The presenters noted that due to the SARS-CoV2 pandemic, greater attention is on the

types of materials used in masks (including nanomaterials such as graphene, carbon nanotubes, and nano silver) and concern regarding the potential release of these materials and their impact on human health. However, no update has been provided on this proposal for the November 2021 meetings as well as for a project assessing performance of disinfectants containing nanomaterials. Staff will continue to monitor the development of these two projects.