



MEETING LOG

SUBJECT: UL 8400 Biocompatibility Task Group Meeting on Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) Technology Equipment

OP PLAN ENTRY: Wearable Technology

DATE OF MEETING: 1/29/2025

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Stephen Harsanyi (ESHF)

FILING DATE: 1/30/2025

CPSC ATTENDEE(S): Brad Gordon (ESMC), John Gordon (HSTR), Stephen Harsanyi (ESHF), and Suad Wanna-Nakamura (HSPP)

NON-CPSC ATTENDEE(S): Contact ULSE for the full attendee list.

Summary of Meeting:

The Biocompatibility Task Group for ULSE Technical Committee (TC) 8400 on Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) Technology Equipment convened to improve the biocompatibility requirements specified in the standard. The task group discussed the following topics, among others:

- Methods for emitting odors during use of immersive technology, such as devices that use scented oils and paraffin wax.
- Off-gassing from base materials of HMDs and accessories.
- Instructions for cleaning, disinfecting, and sanitizing the products and related testing.
- Mechanical testing for the strength of the materials as it relates to exposure to toxic chemicals.

CPSC staff made several recommendations to the task group, such as follows:

- Consider potential material degradation from reasonably foreseeable use of cleaners that are not prescribed in the instructions. Another member responded by recommending the task group consider the EPA and CDC guidelines on disinfection.
- Evaluate the related efforts by the ASTM subcommittees on Amusement Rides and Devices regarding disinfection and sanitization.
- Consider exposure to product chemicals in the context of reasonably foreseeable durations of use, sweating, and friction between the device and the user.
- Develop minimum normative requirements rather than relying almost exclusively on informative recommendations for testing and evaluation.

Additionally, staff recommended the full TC discuss how to address third-party accessories, such as odor cartridges, haptic body suits, and controllers.

Next Steps:

The Biocompatibility Task Group plans to reconvene on February 26, 2025, at 1 PM, ET, to continue developing the skin and inhalation compatibility requirements. In particular, the task group plans to determine which requirements are reasonable to include normatively and informatively at this time, and how best to organize the information in the standard. CPSC staff was asked to collect more information about related ASTM efforts and update the task group. The TC plans to meet on February 11, 2025, from 10 AM to 11 AM, ET. If there is time, the TC may discuss how to address third-party accessories.