

Round table discussion at the International Safety Equipment Association (ISEA) Shower and Eyewash Product Group meeting – December 2, 2016, Alexandria, VA

On December 2, 2016, the ISEA Shower and Eyewash Product Group met in a round table discussion seeking input from various stakeholders on the next revision of Z358.1 (anticipated for 2019). Sammye Sigmund and Mary Beth Kosa represented the Division of Chemical Health and Safety of the American Chemical Society (DCHAS ACS). Other invited participants were: Markus Schaufele representing the Campus Safety Health and Environmental Management Association (CSHEMA); Billie Zidek representing APPA: Leadership in Educational Facilities; and Matt Sigler of Plumbing Manufacturers International® (PMI).

At approximately 9:30 am, introductions were made and Imants Stiebris, the committee Chair, invited the guests to present their prepared surveys and reports. An open forum ensued where the following topics were discussed. Imants also stated this was the first of several input meetings.

- Testing: What is the difference between “testing”, “certification”, and “activation”? This is not clear in the current standard. Imants explained that “certification” is a word used only by the manufacturers to ensure that their products meet ANSI Z358.1. End users do not “certify” equipment.
- Regulatory bodies such as the Occupational Safety & Health Administration (OSHA) and the Joint Commission (formally the Joint Commission on Accreditation of Healthcare Organizations, JCAHO) requesting documentation of compliance which is an issue with the weekly testing requirement.
- Inspection: Requested clarification of the expectation. Provide options for best practices – possibly in a sister document to the code.
- Selection: When is it needed and what types of equipment are needed (is there an expectation that the standard would address since it does include installation / implementation requirements, that are end-user dependent?) The current Appendix dabbles in the aspect of where showers and eyewashes need to be included. Is there opportunity to expand?
- ADA compliance- very open to the edits provided by DCHAS.
- Extensive discussion on lab design and placement of showers. The current estimate (provided by Markus) was that each new safety shower in a new building has an estimated cost of \$29,000 (\$20,000 for the unit and \$9,000 for 900 sq ft of lab space at \$1000 per sq ft).
- Extensive discussion on building drainage language into the code or best practices document for new construction. Retrofitting for drainage is not practical or needed.
- Tepid water requirement and the quality of water: Standard requires connection to potable water. There is the potential for issues and fear Legionella and opportunistic pathogen growth in tepid water environments. Current data on activation reducing growth would be welcome.
- The current standard is not always clear on purpose between eyewash and eye/face wash. Perhaps opportunity to clarify application and expectation of the device. It was evident from the discussion that many end users might not even be able to visually recognize an eyewash vs. an eye/face wash.
- Sustainability and zero waste (environmental impact). How much water is needed to even test unit? Imants pointed out that the end user would not ever have to necessarily perform a “15

min” certification performance test. Again, this is only for the manufacturers. Activation is to maintain potable water, but for what time? Is it time to do a new study on weekly interval?

- The committee requested information on equipment failure. Some data (provided by Markus) suggests 5-10% annual repair rate.

The meeting adjourned shortly after noon.

Respectfully Submitted to the DCHAS EC,

Samuella Sigmann

Mary Beth Kosa

December 8, 2016

Anticipated Attendance List (11.29.16)

George	Watlington	Airgas
Billie	Zidek	APPA
Nathaniel	Kogler	Bradley Corporation
Ryan	Pfund	Bradley Corporation
Mary Beth	Koza	Division of Chemical Health and Safety -ACS
Samuella	Sigmann	Division of Chemical Health and Safety -ACS
Shannon	Harper	Encon Safety
Jim	Johnson	Encon Safety
Felipe	Macias	Encon Safety
Michael	Adkins	Guardian Equipment
Thomas	White	Haws Corporation
Cristine	Fargo	ISEA
Dan	Gray	Justrite Engineered Solutions - Hughes Safety Showers
Markus	Schaufele	Northwestern University
Thomas	Maloney	Oliver Landon
Matt	Sigler	PMI
Alan	Hall, M.D.	Prevor
Michael	Bolden	Radians
Steve	Batke	Sellstrom
James	Franklin	Sellstrom
Imants	Stiebris	Speakman Company