

US Consumer Product Safety Commission
Log of Meeting

Subject: ASTM F15.72 Flame Mitigation Devices (FMDs) on Disposable Fuel Containers

Date: March 12, 2019

Location: Teleconference

Prepared By: Scott Ayers (sayers@cpsc.gov, 301-987-2030), March 12, 2019

CPSC Participants:

Scott Ayers, Jacqueline Campbell, Jonathan Kent, Kristen Talcott, Matt Roemer, and Sandy Inkster

Non-CPSC Participants:

Josh Dinaburg of Jensen Hughes

Andy Minister (Fire Protection Engineer)

Cheryl Atkinson of the Portable Fuel Container Manufacturers Association

Bo Manalo of Eco Smart

Jason Ellis of University of Kentucky

Melissa Bartlett of Chamberhill Strategies

Jennifer Bell of Chamberhill Strategies

Kim Hoarle of the American Burn Association

Jim McGorman (Physician)

Ken Nemire of HFE Consulting

Margrett Lewis of Your Turn Not to Burn

Mike Stern of Exponent

Eric Adair of HPBA

Rachel Feinstein of HPBA

Bob Moss of SEA Ltd

Don Huber of Consumer Reports

Glen Carter of Just Rite Manufacturing

Jarrold Kuhn of Stern Products

JF Lalonde of Health Canada

Shaan Rashid of Health Canada

Roland Riegel of Underwriters Laboratories

Summary of Meeting:

Update on Proposed Legislation, HR 806. This meeting began with a discussion of the proposed legislation requiring FMDs on consumer products. Jennifer Bell gave an overview of the bill. Participants discussed the specific definition of a consumer portable fuel container and what products should be included. There was a short discussion on whether the bill should include products that may not fall under jurisdiction of CPSC. Participants commented on whether the bill should only focus on FMDs or if it should include other safety measures, such as those in ASTM F852, which covers portable gasoline container design, and ASTM F2517, which covers

child resistance of portable gasoline containers. There was a brief discussion on participant's impressions regarding support of the bill.

Discussion on proposed scope of this standard and definitions. Prior to the meeting, Scott Ayers emailed the task group draft language to initiate a discussion on the scope. Participants raised concerns regarding the products in scope (flammable liquids like rubbing alcohol, nail polish remover, and solvents are not included). Scott Ayers pointed out that it may be difficult to develop requirements for products that are under the jurisdiction of other federal agencies and products without representation on the task group. While participants felt that these products should have FMDs, some participants stated that the development of a separate standard may be needed for those products. The group also discussed what is and is not "disposable"; Scott voiced his opinion that "single use" is not the correct term because many products are not intended to be fully emptied in one use and that "disposable" should include the possibility of refilling the container a limited number of times. Jared Kuhn noted that some industries preferred the descriptor "disposable and non-refillable." It was pointed out that the draft language required FMDs to be "permanently installed", a position CPSC has held for many years. The flammable threshold of 140°F, which is used by the US Department of Transportation, was discussed.

Update on the CPSC contract to research container squeezing and possibly develop requirements. Josh Dinaburg provided an update to the task group. He has characterized squeezing velocities for two scenarios: containers intended to be squeezed (slower speeds), and containers that must be manually "popped" back (faster speeds). He replicated the slower speeds using an evacuated 1 liter cylinder. He is now testing using a robust simulated container to determine if simulated squeezing makes a difference to FMD performance.

Margrett Lewis was curious to know how 0.6 mm diameter mesh behaves in the particular setup Josh found the critical hole diameter to be around 1.7 to 1.6 mm.

Upcoming Meetings. The next meeting has not been scheduled but is expected to take place in May.