

US Consumer Product Safety Commission Log of Meeting

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

Date: March 26, 2020

Location: Teleconference

Prepared By: Scott Ayers (sayers@cpsc.gov, 301-987-2030), March 26, 2020

CPSC Participants:

Scott Ayers (task group chair), Jonathan Kent, Chen Su, Matt Roemer, Sandy Inkster, Jacqueline Campbell, and Kristen Talcott

Non-CPSC Participants:

Contact ASTM for a list of participants

Summary of Meeting:

Introductions. Those in attendance announced their presence.

Discussion on metal mesh FMDs. John Fillmon of Atom Labs led a discussion on metal mesh FMDs. His product in particular has been tested to NFPA 69 Chapter 14. The group discussed whether a third test, based on NFPA 69 was needed for containers with metal mesh as an FMD. Most members thought that the current test could be modified to include provisions for metal mesh FMDs, they felt that the test was indicative of the container usage and that specimen preparation may be the only section that needed modification. Scott Ayers and John Fillmon will work together on drafting a test procedure for consideration by the task group.

Working Session on the Current Draft. The task group reviewed the current status of the working draft. The task group approved Scott Ayers to accept changes within the draft document and clean up the document. Scott Ayers will continue to edit the document language to improve the clarity, readability, and logic but will not add or delete major points without discussing with the task group.

Open items to be resolved in the current draft. Scott Ayers reviewed his list of open items that needed resolution:

- Clarity on tube inflation in section 5.2.5 – Josh Dinaburg and Michael Stern will work on this section
- Simplify how to determine ignition in 5.3 – Scott will work on this section, the noted information in this section will move to the main body
- Organization of the document – because of the comments on new sections, such as Section 6 and some other new subsections have been written. Towards the end of the process, the organization of these sections will be revisited.
- Scope of the document – it was pointed out that paint with a flash point below 140 F would not be within scope of the document. The group debated how to exclude paint but include paint thinners and other flammable liquids in narrow necked containers. The

group decided to leave the scope alone and update the definition of “fuel”. Scott will attempt to update the definition accordingly.

- Function flow out test – the group agrees to progress without requirements for a flow out test so long as the group is prepared to revise the standard to include requirements in the future. JF Lalande will draft appendix material.
- Permanency test – the group agrees to progress without requirements for a permanency test so long as the group is prepared to revise the standard to include requirements in the future. Scott Ayers will draft appendix material.
- The frame rate for video – the group agreed to a frame rate of not less than 200 fps for visible cameras and not less than 30 fps for infrared cameras. The group also agreed that more information is needed to verify the camera operation. Scott Ayers will update the section accordingly.
- Minimum container size – the group agreed that 100 mL or 3.4 oz is a sufficient minimum size. This is the limit allowed on airplanes. JF Lalande will confirm that Health Canada accepts this size limit.
- Adapting the test methods for other technologies – see metal mesh section of this meeting log for more information on this issue.

The next meeting. The group scheduled a working session for April 9 from 1pm to 3pm ET to work on editing the draft document. Any further technical issues will be addressed on the next main task group meeting on April 23 from 10am to 12pm ET.