

**U.S. Consumer Product Safety Commission
LOG OF MEETING**

**SUBJECT: ASTM F15.10 Gasoline Container, Flame Mitigation Device (FMD)
meeting**

DATE OF MEETING: 2/26/2015

LOG ENTRY SOURCE: Scott Ayers

DATE OF LOG ENTRY: 3/6/2015

**LOCATION:
Telecon**

CPSC ATTENDEE(S): Scott Ayers and Jonathan Kent

**NON-CPSC ATTENDEE(S): Contact Len Morrissey of ASTM (610-832-9719 or
lmorriss@astm.org) of Phil Monckton (PMonckton@scepter.ca, 416-883-0627) for
a list of attendees.**

SUMMARY OF MEETING:

**The ASTM F15.10 task group on Flame Mitigation Devices (FMD) asked for CPSC
staff's opinion on the flame front speed approaching the FMD.**

Background:

**WPI has developed a draft test protocol for FMD in portable gasoline containers.
Research on this draft protocol by BEAR and WPI suggest that the flame front**

speed is on the order of 4 - 8 m/s (BEAR) or 2 - 5 m/s (WPI), rather than 0.4 m/s, which would be the speed in open space. ASTM asked CPSC staff what an "appropriate safety factor" for this would be for this. CPSC staff asked ASTM F15.10 for a meeting with the task group to discuss the issues.

After listening to the task group members and WPI debate the issues CPSC believes that the worst case, real world flame front speed at the FMD has not been identified. Without an identified worst case, real world flame front speed at the FMD, CPSC staff believes that the current WPI protocol is the best best procedure (as opposed to redesigning the test to slow down the flame front speed to closer to 0.4 m/s). More information, particularly on the worst case, real world flame front speed could change CPSC staff's conclusion.