# WASTE COMPARTMENT FIRE CONTAINMENT UPDATE

Scott Campbell
Safran Group Technical Fellow
Safran Cabin Inc

June 13, 2023 IAMFTF, Cologne

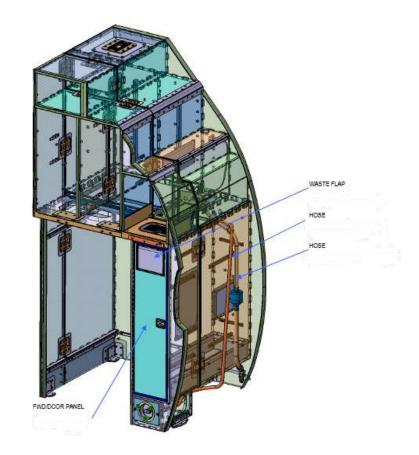


#### **Waste Compartment Fire Containment**

14 CFR 25.853(h)

All Waste Compartments, Meal Trolleys & Waste Trolleys must be substantiated by Test or Analysis.

Industry/Regulators lack harmonized published methods of compliance (MOCs) to substantiate by analysis.





#### **Waste Compartment Fire Containment**

Our task group is assessing 20 proposed MOCs & design guidelines and 8 test standardization guidelines.

Only a few of these are specifically mentioned in FAA ACs

The others are straight forward often using aspects of the flammability Policy Statement.





# **Harmonizing Test Aspects**

#### Update:

The task group submitted our proposed Chapter 10 (FAA Fire Test Handbook) improvements at the end of 2022.

The FAA had a few comments that were incorporated earlier this year.

Updated chapter is currently undergoing a final FAA review and expect the RED LINE updated chapter to be published onto the Fire Test Handbook website in the next month or two.

All Task Group members have the proposed chapter updates should your organization like to request a copy.





### **Methods of Compliance (MOC)- Similarity**

Fire Containment Test is costly!

The Task Group set out to identify current MOCs for similarity and propose additional MOCs based on existing MOCs used for Bunsen burner & Heat Release. This work is still in progress with several task group agreed upon MOCs- See our task group Triennial presentation for all the details.

The task group is engaging the regulators for a path forward to use the proposed MOCs and others as they are fleshed out.

We hope to discuss this and more tomorrow during our task group meeting.



## **Task Group Meeting**

Come Join us tomorrow @ 15:45 to work on these topics.





# Conclusion

You know you're one of us if you do this in an aircraft lavatory!!





## Oh no, not another Bunsen Burner topic

FAA Fire Test Handbook - Chapter 4, Wires

What to do if a wire that requires testing is not readily available in 30 inch lengths? (test actual part, etc)

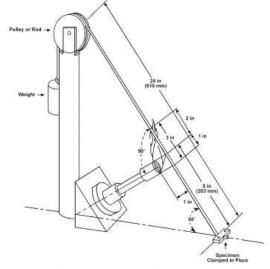


Figure 4-1. 60-Degree Electrical Wire Bunsen Burner Test Setup



#### Oh no, not another Bunsen Burner topic

FAA Fire Test Handbook - Chapter 4, Wires (proposal)

- Wire Length: Minimum of 8 inches
- Position: Ensure there is a minimum of 5 inches above the flame impingement point and 3 inches below the flame impingement point.
- All burn lengths must terminate before reaching the end of the wire.
- Fix ends with extensions (wire/cord)
   and alligator clips attaching over wire
   insulation to prevent being a heat sync.



