

09/25/2024



Cargo RPA Update



Federal Aviation
Administration

Agenda

- Cargo Compartment Halon MPS
- HFC Replacement Task Group
- Smoke Generator Task Group
- SAE AGE-2
 - FRC/FCC fire test standards
- Battery Fire Simulator



Cargo Halon MPS

- New test method (Multiple Fuel Fire Scenario) finalized and added to the MPS via discussions in the task group
 - Report to be published by FY2025.
- Task Group meeting on 9/26/2024 in the Atlantic Ballroom
 - 8:30 AM – 10:00 AM
- Chair: Dhaval Dadia

HFC Replacement Task Group

- Task Group meeting on 9/26/2024 in the Atlantic Ballroom
 - 10:30 AM – 12:00 PM
- Chair: Wade Stoelting



Smoke Generator Task Group

- Task Group meeting on 9/25/2024 in the Atlantic 2
 - 8:30 AM – 10:00 AM
- Chair: Dr. Andre Freiling



SAE AGE 2

- Battery Fire Working Group establishing a battery fire standard for Fire Resistant Containers (FRC)
- Currently, establishing a standard with 600 cells
- Discussions involve:
 - SOC, manufacturer of the cells
 - Configuration of the setup

Battery Fire Simulator

- Tech Center is conducting research to develop a simulator that will replace the physical testing of lithium-ion cells in standardized tests.
- Tech Center has conducted tests to determine the rate of vent gas generation from lithium-ion cells in thermal runaway.
- Tech Center has conducted tests to determine the rate of thermal runaway propagation from lithium-ion cells in thermal runaway.



Questions?

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