

10/29/2024



Fire Safety Branch Overview

Dhaval Dadia



Federal Aviation
Administration

Fire Safety Branch Mission

To prevent fatal accidents caused by in-flight fire and to improve survivability during a post-crash fire.



Forum Meeting Objective



Fire Safety Overview

Cargo Fire Safety

Hazardous Materials

Propulsion

Materials Flammability

Advanced Materials

Cargo Fire Safety



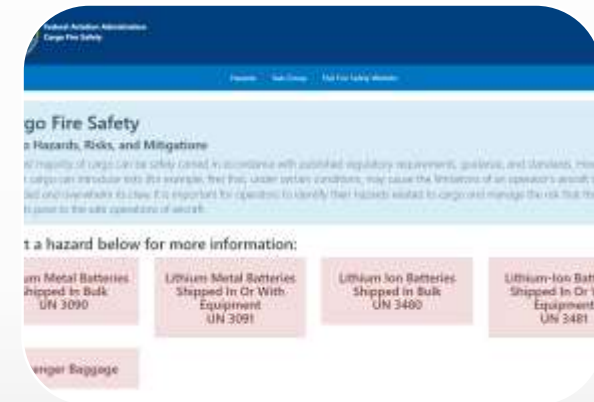
Cargo Compartment
Halon Replacement



Fire Resistant
Containers / Fire
Containment Covers



Class-E Cargo Fire
Suppression



Cargo Hazard
Website

Hazardous Materials Research



UN Battery
Classification



SAE G-27 Battery
Packaging Standard



Fire Containment
Bags



Batteries Packed in
Equipment



Handheld
Comparison for
Lithium Battery Fires

Propulsion



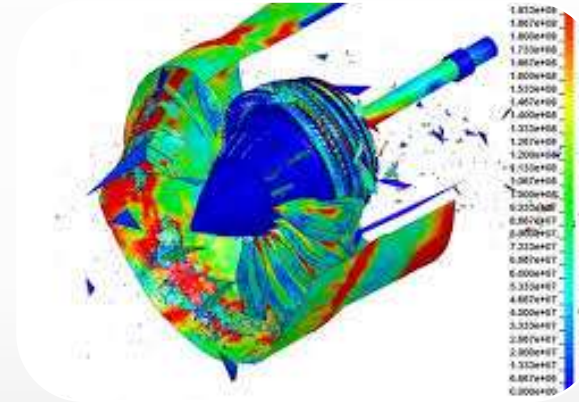
Propulsion Halon
Replacement



Powerplant
Materials Test
Method



Hydrogen



CFD Modeling

Materials Flammability



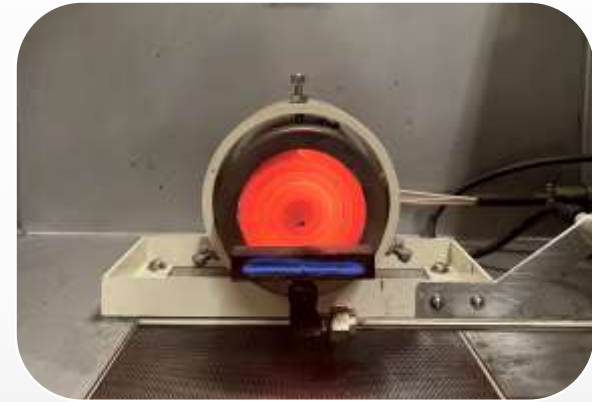
RTCA Test
Method



Additive
Manufacturing



Heat Release
Testing



Vertical Flame
Propagation

Advanced Materials



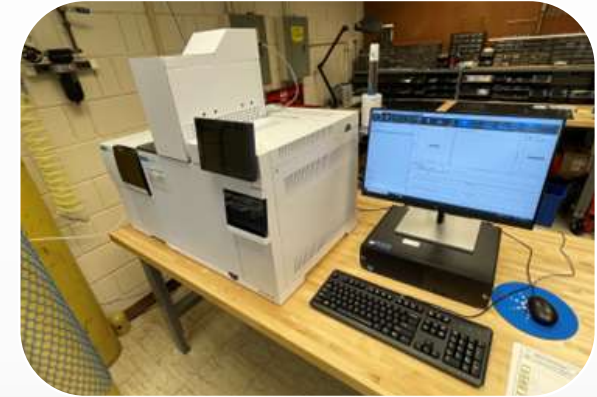
Detonation/Bomb
Calorimetry



ML / Fire
Modeling



MCC Inter-
Laboratory Study



Combustion Gas
Analysis

Presentations & Task Group Schedules

Tuesday

Materials Flammability

Advanced Materials

Materials Task Groups

Wednesday

Materials & Systems Task Groups

Hazardous Materials

Cargo Fire Safety

Propulsion Fire Safety

Thursday

Systems Task Groups