

CAST SE-126 Cargo Fire Protection

International Aircraft Systems Fire

Protection Working Group, Atlantic City, NJ

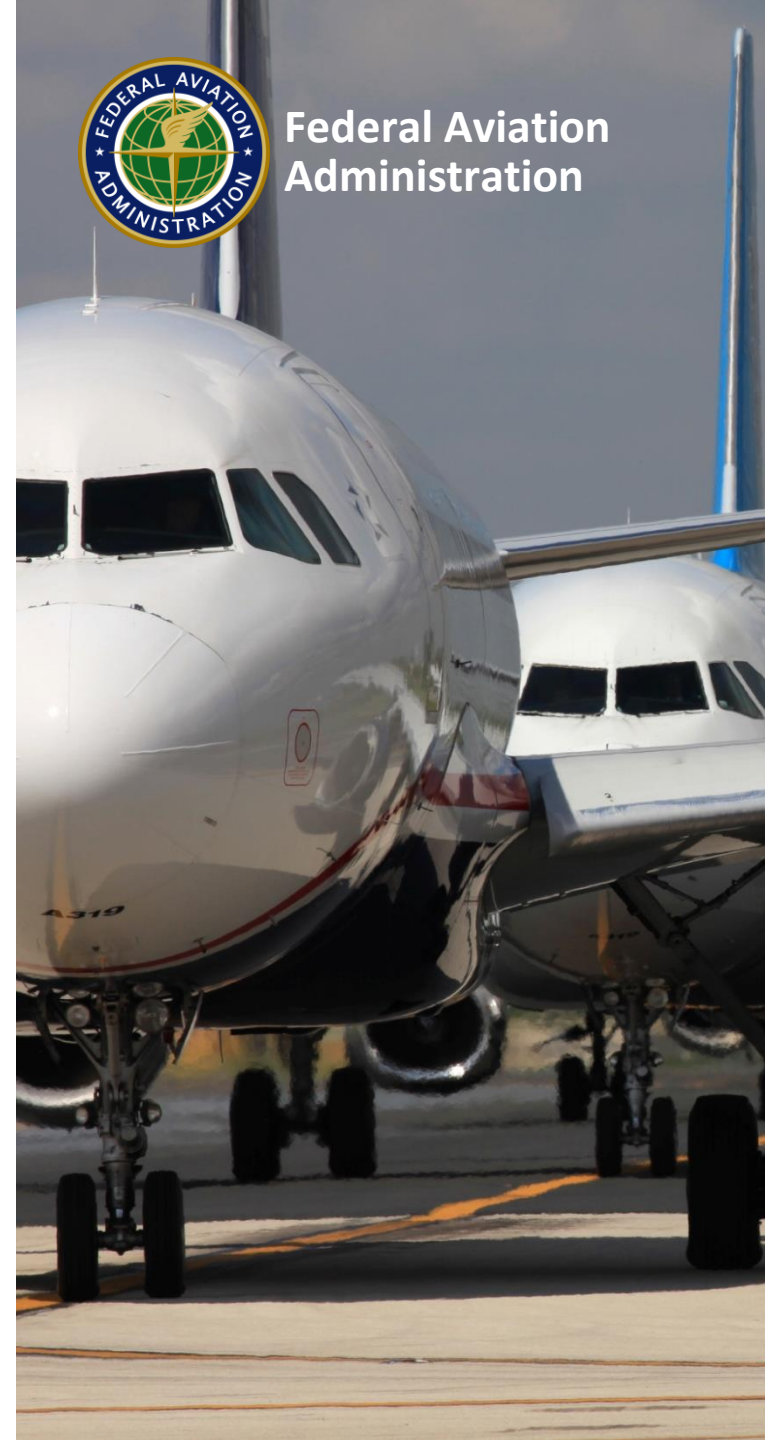
By: Aviation Safety and Security & Hazardous Materials

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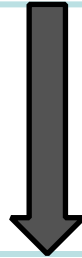
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Structure

CAST Member Meetings (High Level)

Establishes Tasks and Outcomes



**JIMDAT- Joint Implementation Measurement Data
Analysis Team (Working Level)**

**Conducts activities to accomplish identified tasks
and outcomes.**



SE 126 Active Participants:

- **Co-Chairs: FAA Office of Hazardous Materials/UPS**
- **•FAA (Transport Airplane Directorate, Office of Hazardous Materials, Aircraft Certification Service, Flight Standards Service, Tech Center Fire Safety)**
- **Boeing**
- **Airbus**
- **UPS**
- **FedEx**
- **ALPA**
- **IPA**
- **NACA**
- **CAPA**



Safety Enhancement 126

Cargo – Mitigations for Hazardous Material Fires

- **Safety Enhancement Action** To reduce the occurrence of accidents and incidents from fires involving high-consequence hazardous materials, develop systems to contain or suppress such fires as a final line of defense for personnel, equipment and cargo. The system should be usable for both ground (e.g., cargo loading/unloading, and ramp movement) and flight operations.



Output 1--Completed

- **Results of an analysis defining and characterizing any gaps between:**
 - **the causes and contributing factors of recent cargo fires that involved hazardous materials, and**
 - **existing technologies to contain or extinguish such fires.**
- **Report submitted to CAST and second phase begun**



Output 2-Just started

- **An implementation plan based on the results of output 1, to encourage deployment and incorporation of currently feasible technology mitigations that reduce the risk of cargo fires involving hazardous materials.**
- 1.The plan will include:**
 - **a. A risk assessment methodology to be used by operators to assess their specific operational risk**
 - **b. A review of current and potential future regulations governing the design for and transportation of HazMat**
 - **c. An agreement from manufacturers and operators to implement the identified technologies, as feasible**
 - **d. A plan to assess and revise FAA guidance material and policy as necessary to support implementation**
 - **e. ASIAS metrics to assess progress and performance of implementations**
 - 2. Affected organizations commit to carry out the implementation plan.**
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Next meeting in November



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Output 3--TBD

- **Research plans for technology development to close any gaps identified in output 1.**
- **Plans should include who will do the research, what the expected outcomes are- including regulatory actions and how close the technologies are to commercialize**
- **Affected organizations agree to follow through, and report back to CAST**



Related Activity

- **Safety Enhancement 127 Cargo- Fire Containment**
- **This SE reduces cargo fires through new or revised standards for the construction of standardized and improved cargo containers that include fire-suppression or fire-containment systems.**
- **Performance standards being developed in SAE**
- **Potentially one means to address SE-126**



Questions