CAST SE-126 Cargo Fire Protection

International Aircraft Systems Fire Protection Working Group, Atlantic City, NJ

By: Aviation Safety and Security & Hazardous Materials
Date: October, 2014

Date: October 29/30, 2014
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:

- 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
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