

CAST SE-126 Cargo Fire Protection

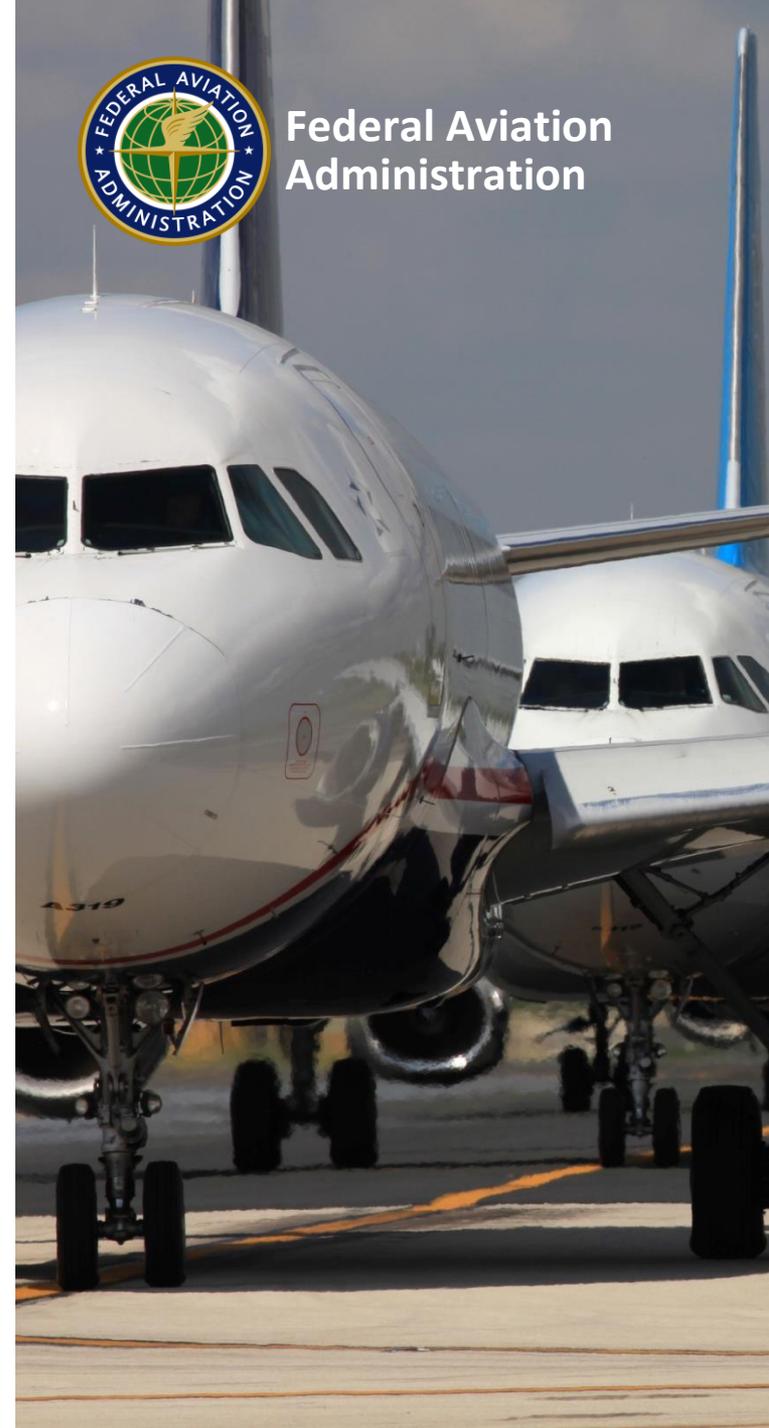
International Aircraft Systems Fire

Protection Working Group, Atlantic City, NJ

Date: October 21/22, 2015



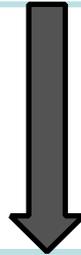
Federal Aviation
Administration



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.**



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.

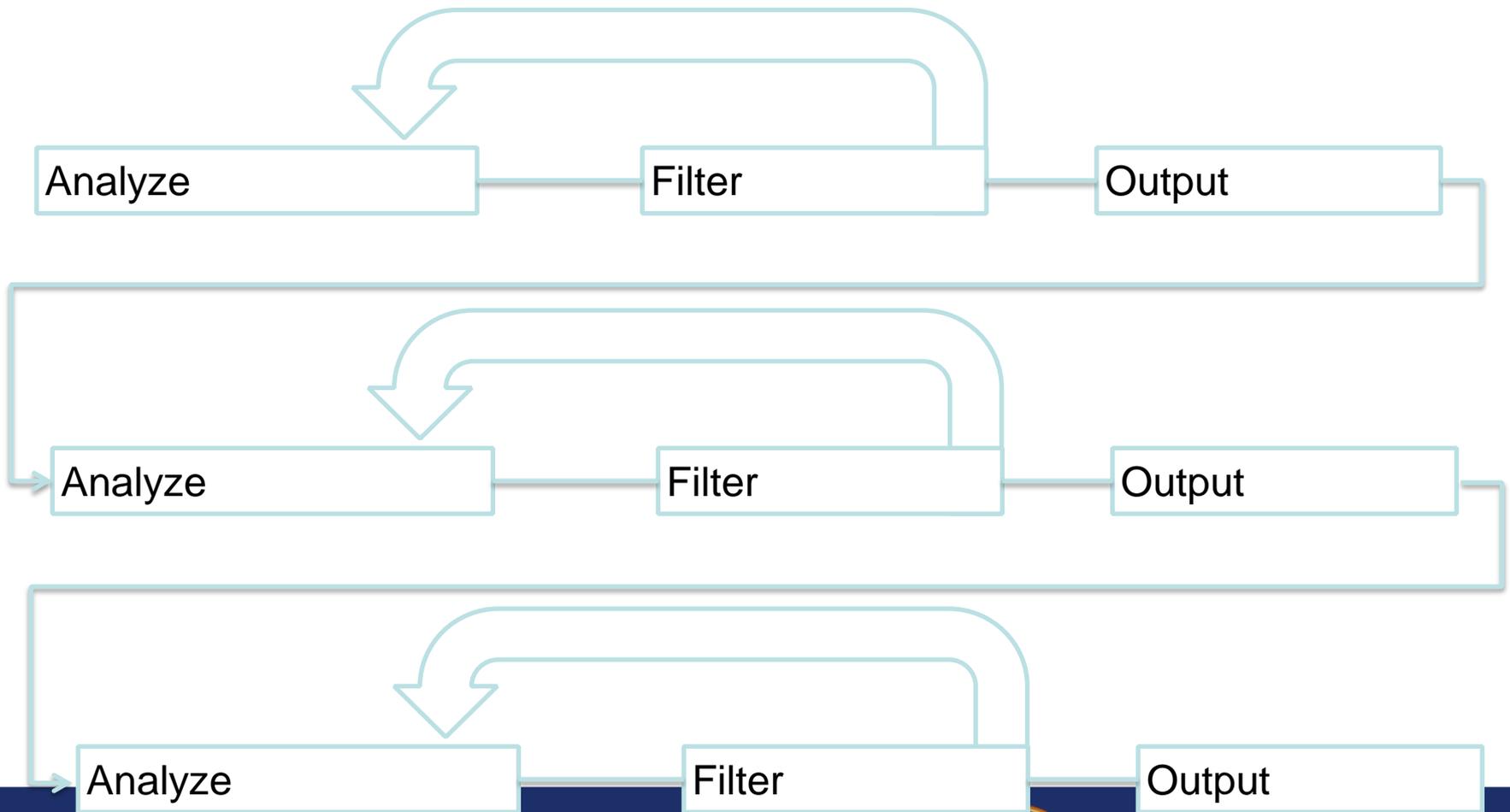


SE 126 Active Participants:

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



CAST Methodology



Basic Steps

- **Joint Safety Analysis Team**
 - Review data
 - Identify key issues
 - Prioritize potential interventions
- **Joint Safety Implementation Team**
 - Assess relative effectiveness of interventions
 - Looks at costs of implementation
 - Make recommendations



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 Nearing completion

- A ‘detailed 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 summary of the recommended interventions
- b. An estimate of the expected cost impact of the recommended interventions
- c. An agreement from CAST member manufacturers and operators to implement the identified technologies, as feasible
- d. A plan to perform research as necessary to support implementation

2. Affected organizations commit to carry out the implementation plan.



Output 3--Research

- **Research needs identified for technology development to close any gaps identified in output 1.**
- **Much of the research fits within FAA's current R&D plan**
- **Affected organizations agree to follow through, and report back to CAST**



Questions