

# CAST SE-126 Cargo Fire Protection

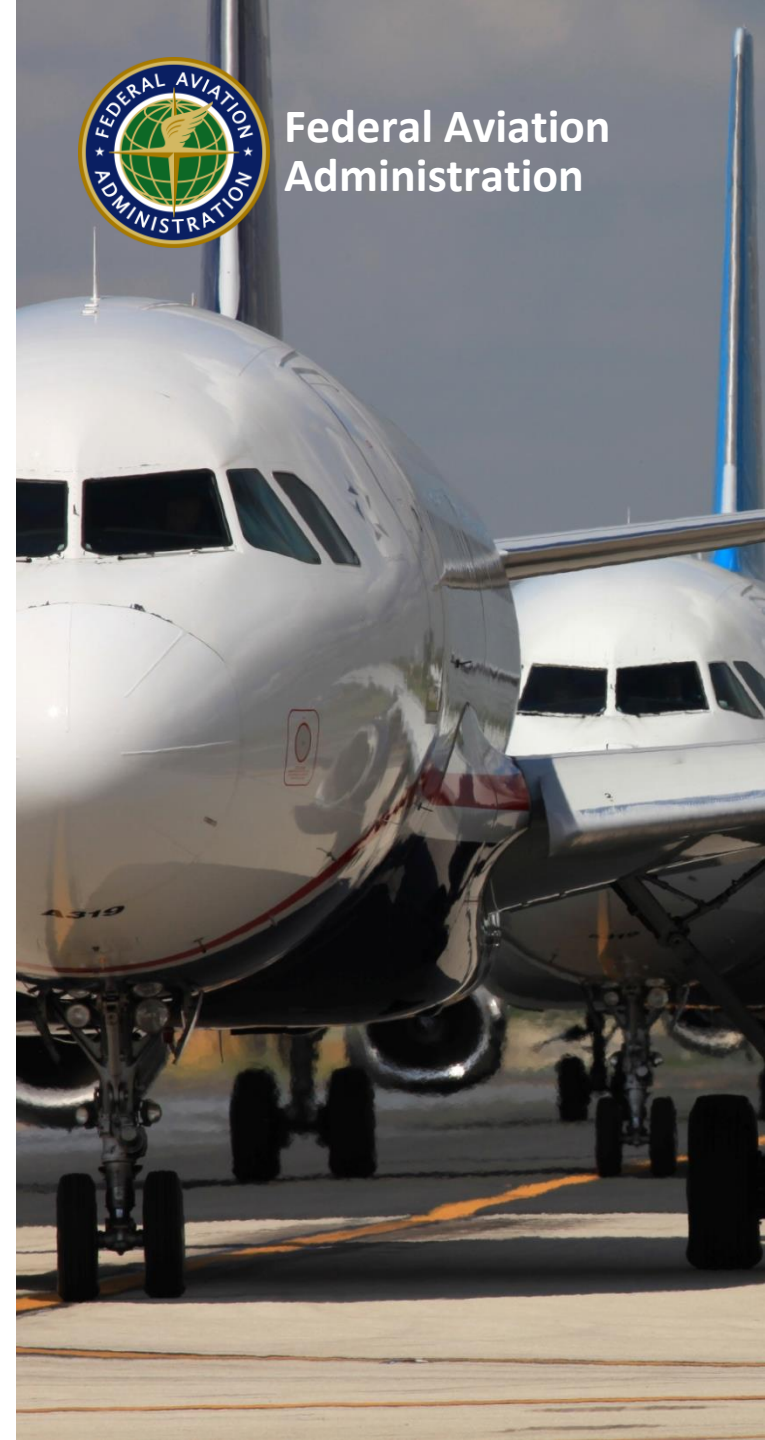
International Aircraft Systems Fire

Protection Working Group, Atlantic City, NJ

Date: October 21/22, 2015



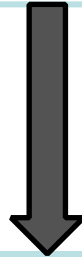
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## Structure

**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.**



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# 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.



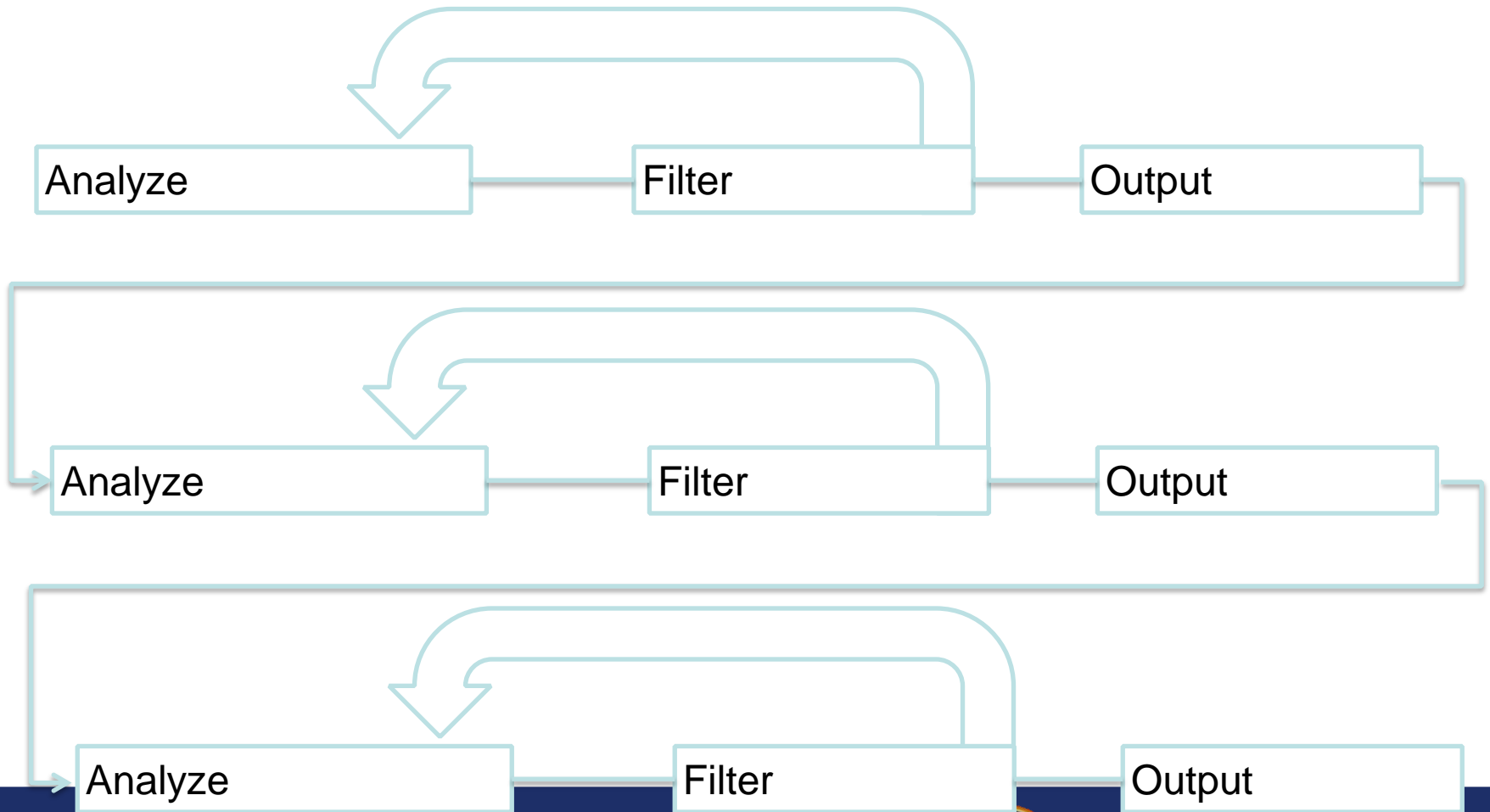
# SE 126 Active Participants:

- **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**



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# 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