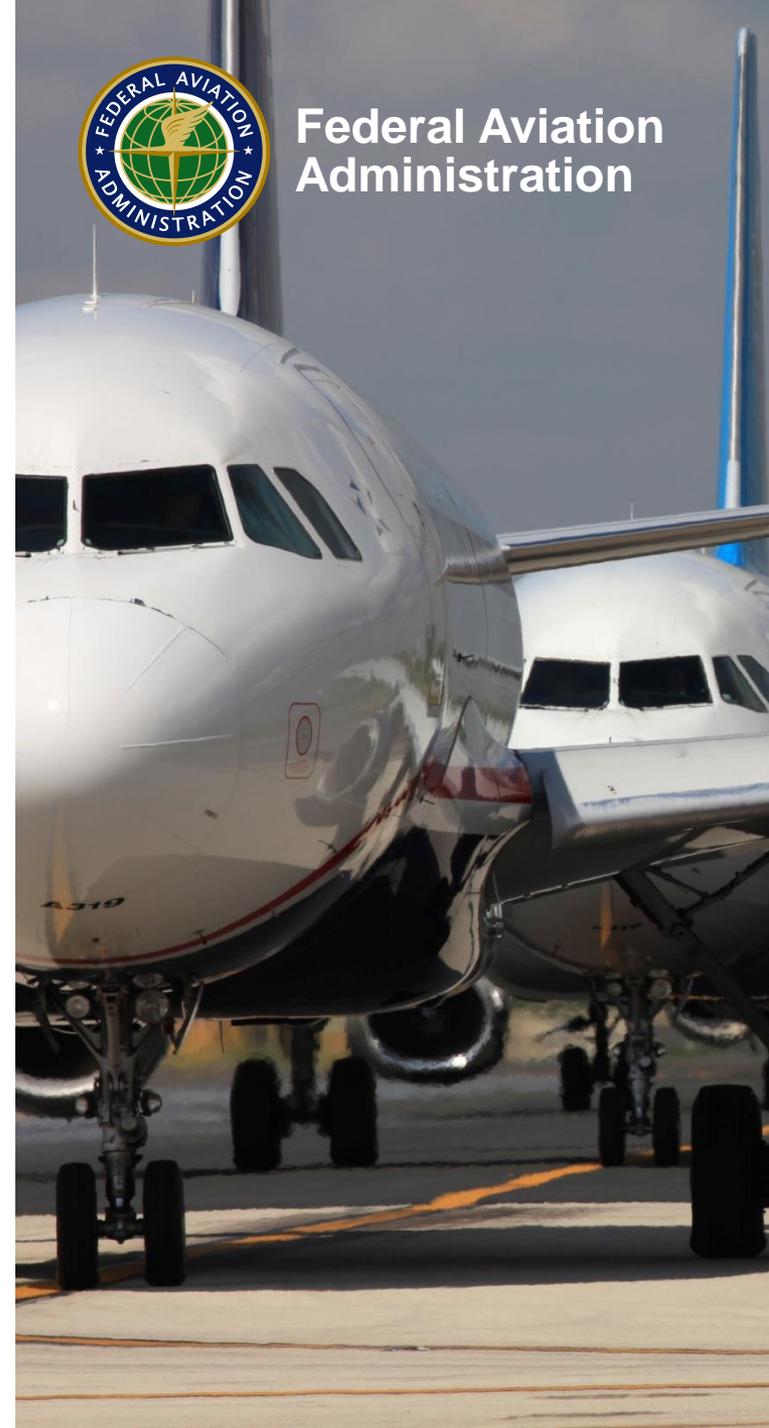


# Radiant Panel Update

Presented to: International Aircraft Materials Fire  
Test Working Group Meeting  
By: Steven Rehn  
Date: 10/27/2014



Federal Aviation  
Administration



# Agenda

- **Introduction**
  - Steven.rehn@faa.gov
- **Chapter RPI update**
- **Training Video**
- **Round Robin**



# Test Data Sheet

Customer:				Date/Time:     /     /     :			
Test Facility:				Test Conductor(s):			
Preconditioning: 24 hours minimum at 70 ± 5° F (21 ± 2° C) and 55 ± 10% Relative Humidity							
Begin Date/Time:     /     /     :				End Date/Time:     /     /     :			
Heat Flux Gauge Serial Number:				Heat Flux Gauge Calibration Slope:     W/cm <sup>2</sup> /mV			
Heat Flux Calibration at Zero Position:							
Initial:     (BTU/ft <sup>2</sup> *sec or W/cm <sup>2</sup> )		Set Point:     (°F or °C)					
Stabilization Time (30 to 90 minutes):     minutes		System Recheck:     (BTU/ft <sup>2</sup> *sec or W/cm <sup>2</sup> )					
Lab Ambient Temperature:     (°F or °C)				Lab Relative Humidity:     %			
Chamber Temperature at calibration (start-up):     (°F or °C)							
Material Description: Fully Identify and Describe the Test Specimen							
							Pass if: ≤ 3 Seconds and ≤ 2 Inches
Specimen	Sample Width (Inches)	Sample Length (Inches)	Sample Thickness (Inches)	Ignition Time (15 or 30 seconds)	After-Flame Time (≤ 3 Seconds)	Flame Propagation Length (≤ 2 Inches)	
1				15 or 30			Pass / Fail
2				15 or 30			Pass / Fail
3				15 or 30			Pass / Fail
4				15 or 30			Pass / Fail
5				15 or 30			Pass / Fail
Remarks: Shrinkage, melting, glowing, swelling, flashing, char, etc.							



# Training Video

- **First of videos produced for various fire test methods**
- **There was a radiant panel video produced about ten years ago that was never released**
- **Video will help clarify new Chapter RPI and provide better visualizations of definitions, setup, testing, etc.**



# Training Video

- **Script follows along with new Chapter RPI**
- **Video will be split into a different chapter for each section**
- **Script and filming are completed**
- **Narration and editing are in-progress**



# Radiant Panel Round Robin

- **Attempt in June never went through**
- **Request for Participants**
- **Set points and chamber temperature along with calibration and test data**
- **Present results at the next meeting**



# Questions?

