# Slide Evacuation Test Method TSO C69A



FAA Fire Safety Team
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International Aircraft Materials Fire Test Working Group Savannah, GA
March1 - 3, 2010



### Slide Evacuation Test Method

 The Task Group met in Atlantic City during the Triennial Conference and participants included representatives from Boeing, Airbus, Goodrich, Bombardier, and Zodiac Air Cruiser.

### Goals:

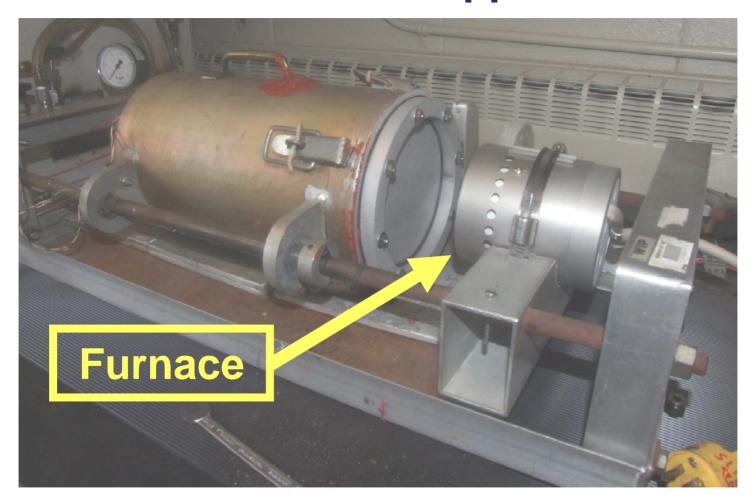
- Update, clarify, and revise the TSO as well as the Material Test Handbook. For example:
  - Under Requirement (9.9.1) the Handbook states that the average time to failure for test specimens will not be less than 90 seconds.
  - The TSO states that the average time to failure may not be less than 180 seconds with no value less than 90 seconds.
- Determine whether or not it would be better to evaluate each specimen individually rather than averaging the results of three specimens.

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- Goals: (continued)
  - Task Group Members have agreed to participate in a Round Robin.
    - The first objective will be to check the calorimeters of the participants at the FAA Technical Center (We have received two calorimeters to date).
    - Materials for this Round Robin will be provided by two manufactures.
    - The Technical Center will send samples to the participating labs.
    - Test duration, pass/fail criteria, proper equipment functionality, and achieving good reproducibility will be evaluated.
    - Equipment will be of key interest as the furnace used for this test has changed over the years.
      - Early versions used a wire coil.
      - Recent versions use either a "new" wire coil or solid coil.
    - We will be evaluating and differences in test data based on the type of furnace used.



# **Slide Evacuation Test Apparatus**



## **Slide Evacuation Test Furnace**

