

OSU & NBS June Materials Meeting

Presented to: Materials Working Group

By: Michael Burns, FAA Tech Center

Date: June 27, 2007



Federal Aviation
Administration



2006 OSU / NBS Round Robin Participants

Participants:	Location:
AIM Aviation	Renton, WA
AIM Composites	United Kingdom
Airbus	Germany
Airbus/Lab 2	Germany
Avio Interiors	Italy
Bodycote	Canada
Boeing	Everett, WA
Boeing	Renton, WA
CD Zodiac	Huntington Beach, CA
CTA	Spain
Delsen Testing Labs	Glendale, CA
DGA	France
DLR	Germany
FAA Wm. J Hughes Tech Center	AC Airport, NJ
Heath Tecna Lab	Billingham, WA
Herb Curry Inc.	Mt. Vernon, IN
HexCel	United Kingdom
Isavolta AG	Austria
JAMCO America, Inc.	Everett, WA
Lantal Textiles	Switzerland
North West Composites	Marysville, WA
Schneller Inc.	Pinellas Park, FL
Schneller Inc.	Kent, OH
Show a Aircraft Co.	Japan
TestCorp	Mission Viejo, CA
The GovMark Organization Inc.	Farmington, NY
Yu Xinhua	China



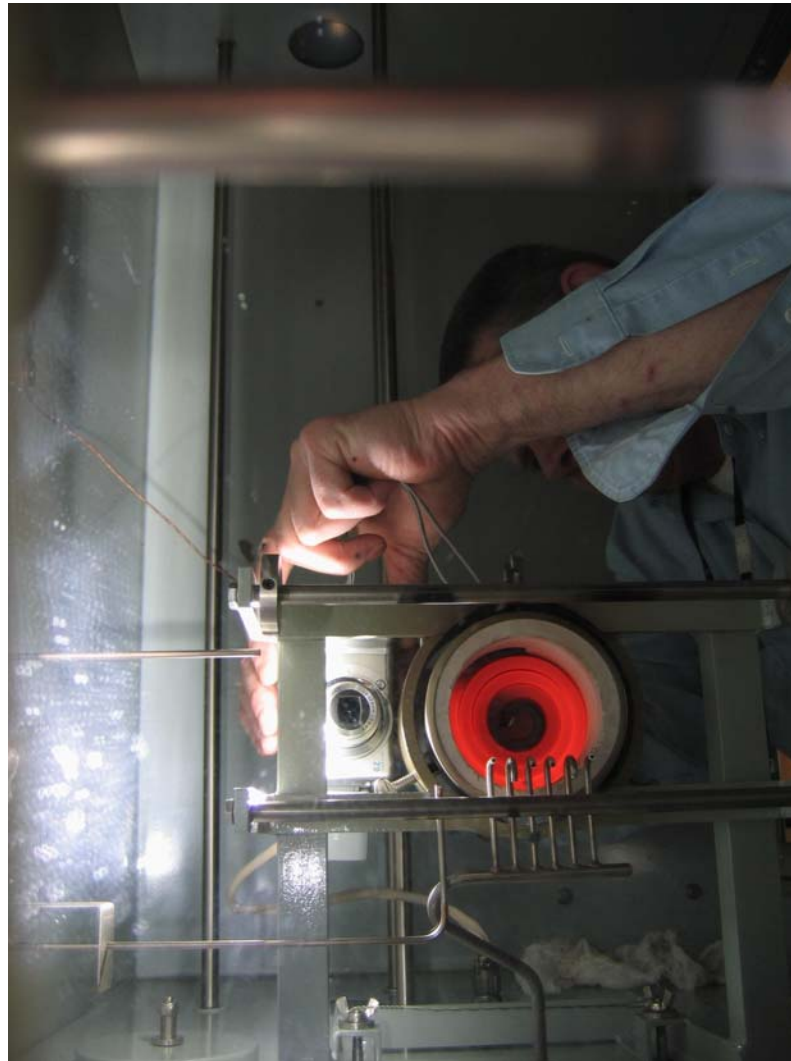
Overview

- **Results of the 2006 FAA Round Robin have been posted to the Fire Safety Web site**
- **27 Participating Labs in all**
- **Lab Codes can be obtained by contacting Michael Burns @ mike.burns@faa.gov or calling (609) 485-4985 (USA)**
- **Preparations are being made to conduct another series of Round Robin tests within the next few months**

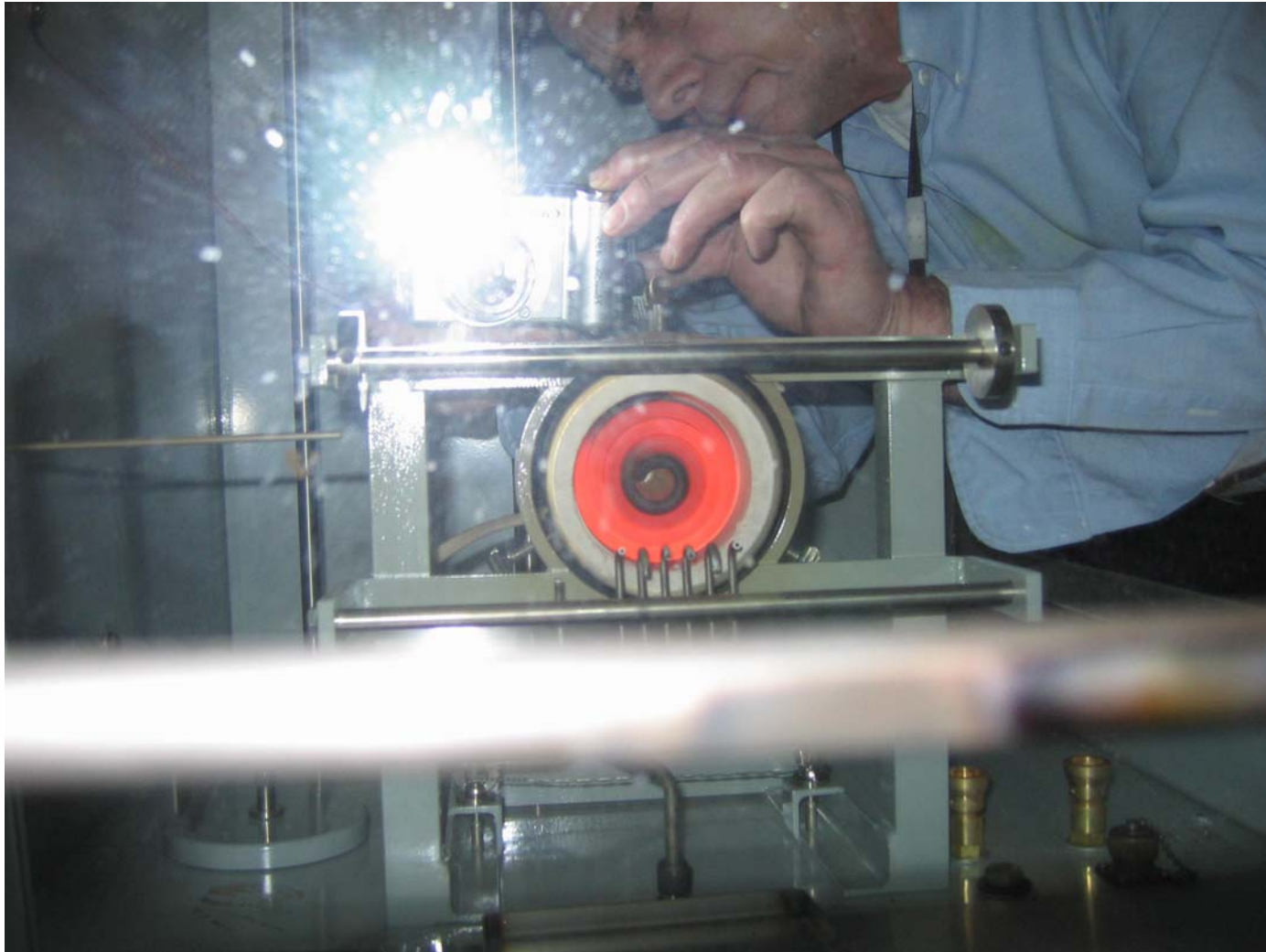
NBS Smoke Chamber

- **A problem with replacement furnaces of the NBS Smoke chamber has recently been observed**
- **A dark “eye” in the center of the furnace has been observed on some coils after being calibrated to the 2.5 W/cm² value**
- **The following two photo’s illustrate the lack of heating in the center of the furnace coil**

NBS Smoke Chamber

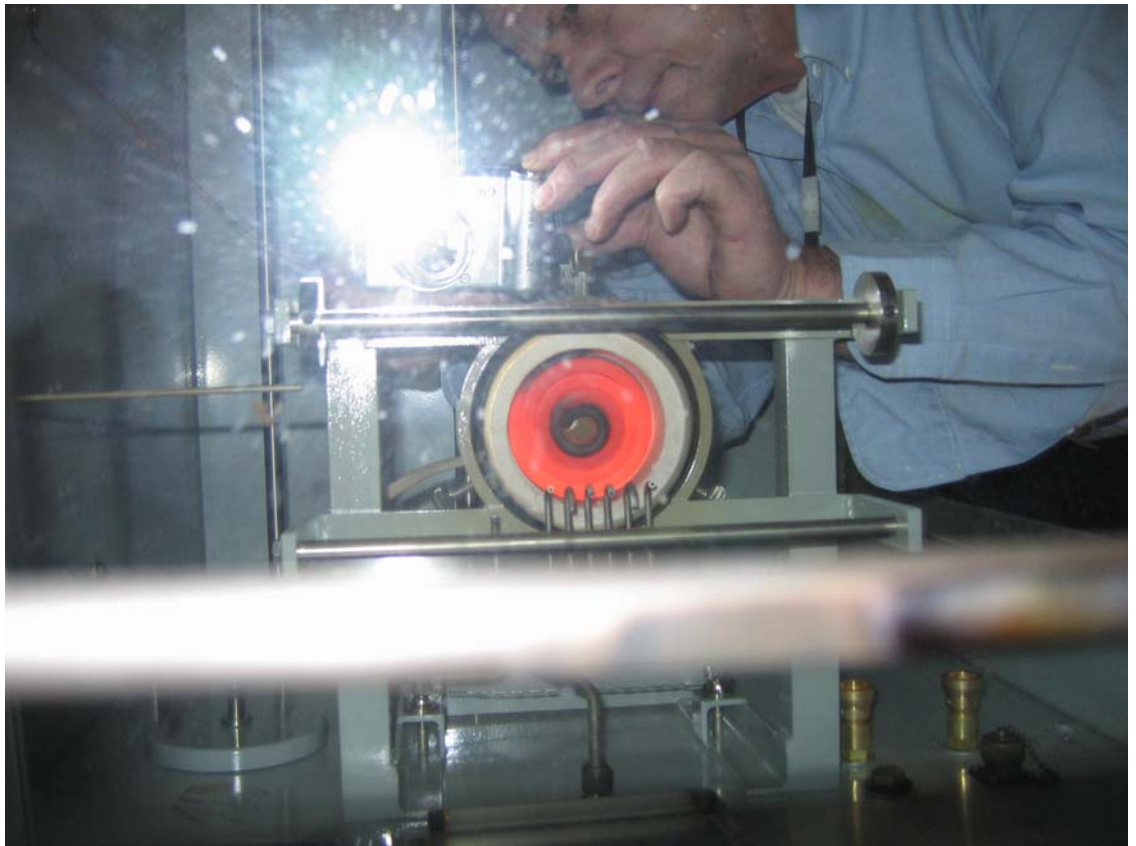
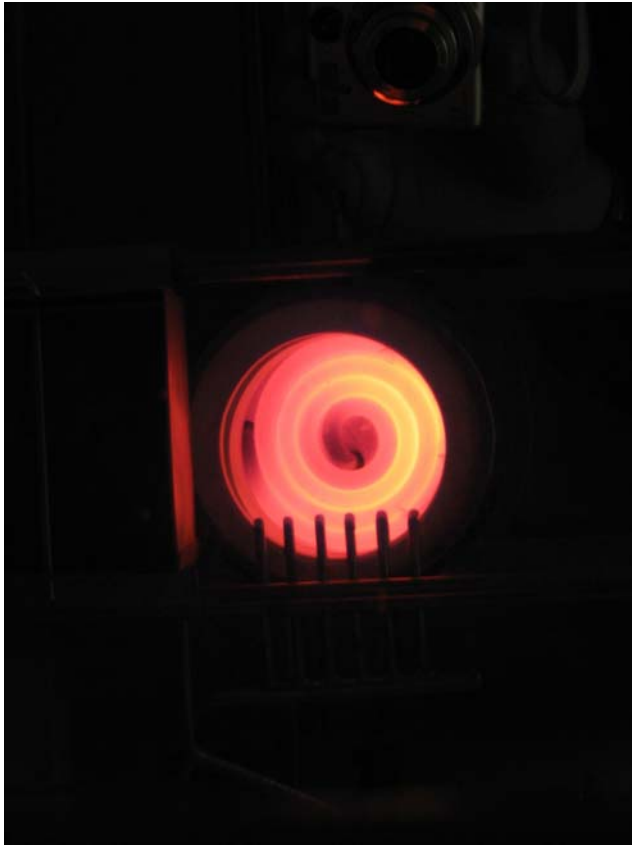


NBS Smoke Chamber



NBS Smoke Chamber

- **Comparison of properly functioning furnace (left) with replacement furnace**



NBS Smoke Chamber

- **Use of alternate equipment by manufactures in some NBS Smoke Chambers.**
- **Such changes include:**
 - IL 1700 Research Radiometer from International Light (USA)
 - SED033 / WBS465 or SED038 / WBS465 system (Photo multiplier tube replacement)
- **FAA will be addressing these issues to assure compliance with the rule**

Closing Remarks

- **FAA currently in the process of procuring material to be used in the next Round Robin**
- **Lab codes are available for anyone who has not received one**
- **FAA will continue to evaluate how to proceed due to the results of the most recent Round Robin**

