

OSU & NBS Updates

2010 June Materials Meeting

Koeln, Germany

Materials Working Group

Michael Burns, FAA Tech Center

June 23rd & 24th, 2010



Federal Aviation
Administration



Agenda

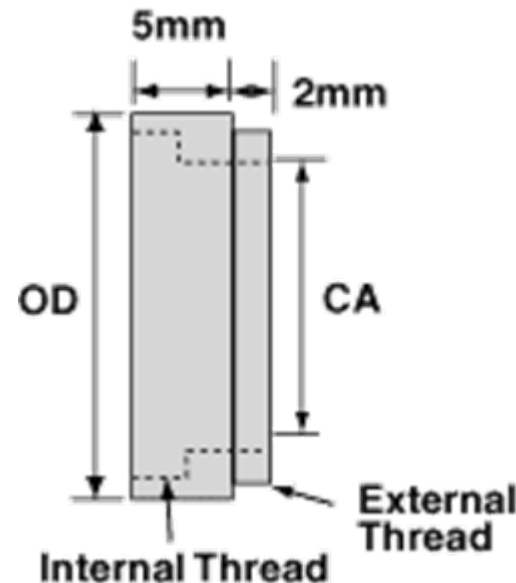
1. NBS - Photometric System Round Robin
2. OSU – Questionnaire
3. OSU Checklist Task Group Update
4. Maintenance Tips & Reminders
5. Next Steps



NBS Photometric System Round Robin

Initial Phase Of Photometric System Round Robin Has Been Completed

- Goal Was To Look At The Scatter The Photometric System / Software May Have On Fleet Test Data
- Test Included A Linearity Check Of Five Data Points Using Neutral Density Filters.



NBS Photometric System Round Robin

- 20 Labs (24 NBS Smoke Chambers) Were Able To Participate
- No Furnace Heat Or Pilot Burner Flame Used
- Zero Then Span System
 - Gradually Slid Filter Over Lower Glass Window
- Results Showed Very Good Comparison With % STDEV of Approximately 1% Between The Range Of 160 To 200 Ds

NBS Photometric System Round Robin

- Phase II Underway
- Testing Materials In The Flaming And Non-Flaming Mode
- A June 1st 2010 Deadline Has Been Requested
- Results Continue To Trickle In



OSU Questionnaire

- A List Of General Questions Has Been Distributed To Each Lab
- Responses Will Address Standard Operating Procedures Of OSU Testing.
- A Deadline of **JULY 15th, 2010** Has Been Requested
- Responses / Comments Will Be Summarized And Reported Anonymously
- This Work Will Be Able To Assist The Checklist Task Group In Their Effort

OSU Checklist Task Group Update

- A New Effort Was Introduced To Develop OSU/NBS Training Tools That Can Be Found On The FAA Web Site
- Consist Of Two Parts:
 - Part I - Chapter Style Training Videos
 - Part II - Conformity Checklist To Accompany Videos
- Checklist To Include:
 1. Detailed Drawings / Dimensions
 2. Cold Inspection Checklist
 3. Hot Inspection Checklist
 4. Checkout And Maintenance Procedures
 5. Calibration
 6. Sample Preparation
 7. Testing Procedures



OSU Checklist Task Group Update

- FAA Sharepoint Site Continues To Be Developed
- OSU Dimensional Drawings Are In The Process Of Being Put Together
- Some Questionnaire Responses Have Been Received And Are Being Consolidated



Maintenance Tips & Reminders

- **OSU**

- Recommendation: Pressure Check Line From Inlet Fitting Of Wet Test Meter To Calibration “T” Burner Tube Prior to Calibrating
- When Recording Wet Test Meter Gas Temperature For Calibration, Ensure Reading Is Accurate And Stable When Gas Is Flowing

- **NBS**

- Verify Sample Face Is Aligned With Furnace Left/Right, Vertically And Horizontally
- Clean The Six (6) Burner Triplet Openings On A Regular Basis Ensuring There Are No Blockages

Next Steps

- Complete Phase II Of The NBS Photometric System Round Robin
 - Flaming / Non-Flaming
- Continue Checklist Task Group Development
- Assist The Flammability Standardization Task Group As Needed
- FAA Contact Information:
Michael Burns At mike.burns@faa.gov
+1 (609) 485-4985