

New Calibration Standard for Heat Flux Measurement

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The U.S. Federal Aviation Administration (FAA) is revising the test methods in Appendix F to Part 25 of Title 14 of the Code of Federal Regulations governing flammability of aircraft cabin materials. Several flammability test methods require a precise radiant heat flux condition when testing these materials. In this presentation a standardized approach for transferring National Institute of Standards and Technology (NIST) Primary heat flux calibrations to total heat flux gauges used in FAA flammability testing is discussed. A description of calibration equipment, procedures and required reporting criteria is presented.