

MEETING LOG
PEER REVIEW WORKSHOP
HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SYSTEMS

WHEN: May 4, 1995
WHERE: National Institute of Standards and Technology (NIST)
ATTENDEES: see attached list

A peer review workshop on CPSC's IAQ modeling project with NIST was held on May 4, 1995. The purpose of the workshop was to discuss the status of the CPSC sponsored project that began in 1993. The workshop was the second one held by NIST and CPSC as part of their multiphase project to assess the impact of conventional HVAC systems and state-of-the-art IAQ control technology design modifications on the quality of air in residential settings.

NIST employed whole-building airflow and contaminant dispersal computer simulations with the CONTAM 93 program to simulate IAQ problems in two housing designs (ranch and 2-story) in Minneapolis and Miami under two conditions of airtightness. Through computer simulations, NIST assessed the effectiveness of three IAQ control technologies: electrostatic particulate filtration, heat recovery ventilation and an outdoor intake damper.

Participants discussed various modeling issues, inputs to the model, and issues related to model validation and sensitivity analysis. Some participants indicated that a computer model that could predict the impact of HVAC systems on IAQ under various conditions would be useful to manufacturers of HVAC systems and provide a "level playing field" for the industry.

CPSC funds for the model validation phase of the study were deleted during the FY 95 OMB passback. NIST is seeking funds to continue their modeling efforts for the residential environment. The final report for the study is expected this summer.

CPSA 6 (b)(1) Cleared

No Mfrs/Privateers or
Products Identified

Exempted by _____

5-17-95
XCB

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Residential Ventilation and IAQ Modeling Workshop 4 May 1995
Invitees as of 10 April 1995

Eric Adams
United Technologies Research Center

Jim Axley
Yale University

Terry Brennan
Camroden Associates

Jay Crandall
NAHB Research Center

Roy Deppa
Consumer Product Safety Commission

Tim Dyess
U.S. EPA
Office of Research and Development

Steve Emmerich
NIST

Bill Freeborne
U.S. Department of Housing and
Urban Development

John Girman
U.S. EPA
Indoor Air Division

Dave Godwin
Air-Conditioning and Refrigeration
Institute

David Grimsrud
University Of Minnesota

Roger Hedrick
Electrocom GARD

Mark Jackson
Bonneville Power Administration

Pat Kennedy
U.S. EPA
Office of Pollution Prevention and
Toxics

John Kesselring
Electric Power Research Institute

Mike Koontz
GEOMET Technologies

Brian Krafthefer
Honeywell Inc.

Bryan Ligman
U.S. EPA
Radon Division

Niren Nagda
Energen Consulting

Andy Persily
NIST

Tom Phillips
California Air Resources Board

Lori Saltzman
Consumer Product Safety Commission

John Talbott
U.S. Department of Energy

Kevin Teichman
U.S. EPA
Office of Research and Development

Dilip Vyavaharkar
Carrier Corporation

George Walton
NIST

Charlie Weschler
Bellcore

Gren Yuill
Pennsylvania State University