

Programs for the Philadelphia Meeting (January, 1997):

Seminar 10

Sunday, January 26, 1997, 12:30-2:20 PM

HVAC Functional Test Criteria

Sponsor: 09.09, Building Commissioning

Chair: Wayne Dunn, P.E., Member, Sun Belt Engineering, Jacksonville, Florida

APC Liaison: Chad Dorgan

Functional testing is the most important test relating to the HVAC system in the facility. Functional testing is the process in commissioning that determines if the systems meet the design criteria and the operation of the systems are feasible and workable. Functional testing also allows the commissioning authority to determine the complete functionality of the systems and will guarantee that the systems have been installed and are operating as designed. This seminar will address the functional testing of the air distribution, hydronic systems and thermal storage systems.

1. Thermal Energy Storage Functional Test Criteria

Chad Dorgan, P.E., Member, Dorgan & Associates, Madison, Wisconsin

2. Air Side Testing in the Real World

Gerald Kettler, P.E., Member, Air Engineering & Testing Inc., Dallas, Texas

3. Functional Test Criteria of Hydronic Systems

Carl N. Lawson, Member, Wren Janus Engineering, Chantilly, Virginia

Forum 18

Monday, January 27, 1997, 10:15-11:05 AM

Should A Guideline on Total Building Commissioning Be Developed?

Sponsor: 09.09, Building Commissioning

APC Liaison: Charles McDowell

Moderator: Carl Lawson, Member, Wren Janus Engineering Inc., Chantilly, Virginia

With guidelines on commissioning HVAC Systems and Fire and Smoke Control System already published, it seems we may have left out the most important item of the building - the Total Building itself. The total building can and does affect the HVAC systems in the building: the windows, the walls, the roof, the electrical systems, etc., and it seem we are not currently addressing these items and owners are asking why. In order to have a total and complete functional building it appears that the total building should be commissioned. This forum will address the many reasons why a guideline on Total Building Commissioning should be developed.

Seminar 39

Wednesday, January 29, 1997, 8-10 AM

The Commissioning of HVAC Systems for Laboratories that Handle Bio-Hazardous or Chemical-Hazardous Materials

Sponsor: 09.09, Building Commissioning; 9.10, Laboratory Systems

Chair: Kathleen Radke, Member, Honeywell Technology Center, Plymouth, Minnesota

APC Liaison: James Buckley

This seminar addresses the special needs and considerations for the commissioning of HVAC systems laboratories that involve the handling of biological or chemical hazardous materials. Several case study results for new construction and retrofit installations are described. The seminar also reinforces the importance of using applicable guidelines and standards for performing commissioning of laboratory systems.

1. Commissioning of a BL-2 Vaccine Production Facility

Peter B. Gardner, P.E., Member, Torcon, Westfield, New Jersey

2. Commissioning a HVAC System for a Pharmaceutical Potent Compound Suite

Henry J. Vance, P.E., Member, Vance Professional Services, Wilmington, Delaware

3. Commissioning Laboratory Fume Hoods Using the ASHRAE 110 Method

Dale Hitchings, P.E., Member, Hitchings Associates, P.C., Indianapolis, Indiana

4. Lessons Learned from a Commissioning Biomedical Research Laboratory

Rodney H. Lewis, P.E., Member, Rodney H. Lewis Associates, Houston, Texas

5. Using Average Face Velocity as a Criteria for the Commissioning of Fume Hoods - Part I

Thomas C. Smith, Member, Exposure Control Technology Inc., Cary, North Carolina

6. Using Average Face Velocity as a Criteria for the Commissioning of Fume Hoods - Part II

Ed Burt, Member, Honeywell, Inc., Westfield, New Jersey