

Programs for the Seattle Meeting (June, 1999):

Forum 5

Sunday, June 20, 1999, 10:15-11:05 AM

Commissioning Documentation: What Is Needed and Why!

Sponsor: TC 09.09 Building Commissioning

APC Liaison: Sally A. McInerney, P.E., The University of Alabama

Moderator: Gerald J. Kettler, P.E., Member, Air Engineering and Testing, Dallas, TX

One of the important products of commissioning is the documentation on the facility from design through operations. ASHRAE Guideline 1, Chapter 12 lists some of the information that should be included but does not detail formats, arrangements, or storage methods. As ASHRAE progresses to the next level of commissioning, a discussion is needed with providers and users of the information to facilitate and standardize the assembly, presentation, storage, and use of the information. This forum discusses what is needed and how it will be used.

Seminar 36

Wednesday, June 23, 8-10 AM

Existing Building Commissioning II: Diagnostic Methods

Sponsor: TC 09.09 Building Commissioning

Chair: Karl Stum, P.E., Member, PECEI, Portland, OR

APC Liaison: Ira G. Poston, Duke Power Co.

Commissioning is a systematic process applied to existing buildings for identifying and implementing operational and maintenance improvements, to optimize system performance and to ensure continued performance over time. There are a number of methods of identifying operational improvements and for ensuring their continued correct operation. Presentations about diagnostic methods range from more manual methods to the fully automated. The seminar provides engineers with technical information on methods they can apply to their general troubleshooting work and can assist them in developing their own existing building commissioning program.

1. Data Visualization Methods for the HVAC Diagnostics

Kris Kinney, Associate Member, Supersymmetry U.S.A., Oakland, CA

2. Using Dataloggers for Improving HVAC System Operation

W. Mark Arney, P.E., Architectural Energy Corp., Boulder, CO

3. Automated Diagnostic for Continuous Commissioning of Outside-Air Control

Michael R. Brambley, Ph.D., Member, Pacific Northwest National Laboratory, Richland, WA

4. Automated Diagnostic Using Energy Management and Control System Data

Lon Brightbill, P.E., Member, Facility Dynamics, Columbia, MD Jeffrey P. Rutt, Member

Seminar 42

Wednesday, June 23, 10:15 AM - 12:15 PM

Does Commissioning Actually Reduce Overall Cost of Projects?

Sponsor: TC 09.09 Building Commissioning

Chair: Gerald J. Kettler, P.E., Member, Air Engineering and Testing, Inc., Dallas, TX

APC Liaison: Ismena V. Deacon, C.Eng., Ove Arup & Partners

Commissioning has proven to be very effective in delivering a properly functioning facility. There are costs associated with providing the commissioning services and savings in both construction and operational functions. This seminar addresses both ends of this cost-benefits equation with examples of how commissioning results in a net benefit to building owners.

1. Commissioning Is Cost Effective and Beneficial to Owners

Carl N. Lawson, Member, EMR, Inc., Arlington, VA

2. A Sustainable Commissioning Process Will Lower Total Cost

Charles Dorgan, Ph.D., P.E., Fellow, University of Wisconsin-Madison, Madison, WI

3. Project Costs with Commissioning: Some Examples

Cedric S. Trueman, P.E., Member, Trueman Engineering Services, Victoria, BC, Canada

4. Costs and Benefits of Building Commissioning for Public Sector Owners:

Experience Case Review

Paul Tseng, P.E., Member, Montgomery County Govt., Rockville, MD