

Meeting Notes

ASHRAE TC9.9 Building Commissioning Research Subcommittee

June 1999, Sheraton Seattle Hotel & Towers

Meeting Attendees: David Shipley (Acting Chair), Kenneth Peet, David Branson, J.R. Anderson, Kathie Radke, Jim Gartner, Richard Rose, Walter Grondzik, Peter Simmonds, Harvey Brickman,

1115-TRP

Identification of ideal monitoring data points for commissioning support during HVAC design (concurrent engineering)

The members of the 1115-TRP Project Evaluation Subcommittee (PES) met in executive session at the beginning of the TC 9.9 Research Subcommittee meeting. The members of the PES who were present were: David Shipley (Chair), Kenneth Peet, Kathie Radke, Walter Grondzik, and Richard Rose. Discussions were confidential and are not included in these notes. Contact David Shipley for further information.

The executive session was then completed and the normal meeting of the TC 9.9 Research Subcommittee began.

Priority 1:

Identification and preservation of building design and commissioning information

Lead on Work Statement is Dave Branson, of TC1.5. Dave reported on the comments he had received on Work Statement 1032. The comments and his responses are summarized below:

- *Comment: the information to be generated from this research is not needed, and if developed would not be used.* Dave did not concur with this comment.
- *Comment: field validation should be included.* Dave concurred with this comment, though he had concern that 10 person-months would not be enough to include comprehensive field validation. He changed item 5 in the scope to include validation of three examples of each of the two system types described in item 2.
- *Comment: qualifications of bidders should include experience on HVAC&R Commissioning.* Dave concurred with this comment and added that qualification as a bullet point under "Other Information for Bidders."
- *Comment: a computer tool is not the right approach; a written tool would be more appropriate.* Dave did not concur with this comment.

Walter Grondzik moved, Richard Rose seconded, that the Research Subcommittee recommend to TC 9.9 that we accept the changes made to the Work Statement and reiterate our support for the modified Work Statement 1032 as our #1 Priority. Motion passed unanimously.

Priority 2:

Already covered above under 1115-TRP.

Priority 3:

The impact of commissioning HVAC systems on life cycle costs

Lead on the Research Plan is Kenneth Peet, along with Dave Shipley. They have not yet modified the one-pager, but intend to do that in the next six months. They will post the revised version on the TC 9.9 website and seek comments from the group before proceeding with a full work statement.

Priority 4:

The building automation system's role in commissioning of HVAC systems (sharing data and simulation results)

Dave Shipley passed on the information that Kristin Heinemeier has indicated she is unlikely to have time to work on this work statement. Jim Gartner was primarily identified to serve as a liaison with TC 1.4 on this. He will seek a primary author on TC 1.4 to work on this.

Priority 5:

Development and implementation of commissioning strategies for optimal control evaluation

Leads on the Research Plan are Rich Hackner, of 4.6, and Dave Shipley. This is Priority 5 of 4.6 as well. Rich and Dave have not started writing a work statement for it yet.

Priority 6:

Diagnostic tools for maintenance and operating cost optimization.

The lead on this Research Plan is currently Tom Tamblyn of TC1.8. Kathie Radke reported that Tom Tamblyn may be too busy to write a work statement in the near future, and we may want to consider reassigning this one.

Priority 7:

Evaluation of standards 90.1 and 62 requirements and development of commissioning techniques for compliance

Lead is Elia Sterling. No Research Plan has been written.

Brainstorming:

The Subcommittee did some brainstorming and came up with the following additional titles (with potential one-pager authors in parentheses):

- The Role of Building Performance Prediction in Commissioning (J R Anderson)
- The Role of Commissioning in Due Diligence in Financial Evaluations of Buildings (J R Anderson)
- A Placeholder for Research Gaps Identified by GPC-1 (Dave Shipley will contact Chuck Dorgan to request their input)
- The Impact of Commissioning on Comfort (Dave Shipley)

Prioritization

WS 1032 was already identified as the Subcommittee's recommended top priority. 1115 also drops out of the list, assuming the recommended contractor is confirmed through the rest of ASHRAE's normal contracting process. Jim Gartner then proposed switching priorities 4 and 5 on the old list. The rest of the Subcommittee concurred. The proposed list then becomes:

- WS 1032 stays as Priority 1
- *The impact of commissioning HVAC systems on life cycle costs* moves from Priority 3 to Priority 2
- *Development and implementation of commissioning strategies for optimal control evaluation* moves from Priority 5 to Priority 3
- *The building automation system's role in commissioning of HVAC systems (sharing data and simulation results)* is now Priority 4
- The remaining items are not prioritized, but the one with a one-pager already written is:
 - *Diagnostic tools for maintenance and operating cost optimization.*
- and those without one-pagers are:
 - *Evaluation of standards 90.1 and 62 requirements and development of commissioning techniques for compliance*
 - *The Role of Building Performance Prediction in Commissioning*
 - *The Role of Commissioning in Due Diligence in Financial Evaluations of Buildings*
 - *A Placeholder for Research Gaps Identified by GPC-1*
 - *The Impact of Commissioning on Comfort*

Jim Gartner moved, Richard Rose seconded, that the Subcommittee recommend the above prioritization to TC 9.9. The motion passed unanimously.

The meeting then adjourned.