

TC9.9 - Building Commissioning Research Subcommittee Report

2001 Summer Meeting
Saturday, 23 June, 2001, 1:00-3:00 p.m.
Cincinnati Convention Center Room 214
Kristin Heinemeier

1. Funded Projects

Priority	Title	Status	Contractor	Notes
	RP 1032 - Identification and Preservation of Building Design Information for Use in Commissioning and Operations	In-Progress	PECI	Reps on PMS: JR Anderson and Eli Howard. No update at this meeting.
	RP 1137 - Field Performance Assessment of VAV Control systems Before and After Commissioning	In-Progress	Patrick Fleming/ Stantech Consulting	Reps on PMS: None. Charlie will consider liaisoning with PMS.

2. Projects in the Pipeline (75 minutes)

Priority	Title	Status	Author	Notes
1	Impact of Commissioning HVAC Systems on Life Cycle Cost	Work Stmt	Kristin Heinemeier	Submitted to R&T for consideration at this meeting...rejected. Awaiting detailed comments, but quick input was that it is too difficult to estimate difference between costs with- and without-commissioning.
2	Field Performance Assessment of Package Equipment to Quantify the Need for Monitoring, FDD, and Continuous Commissioning	RTAR Work Stmt	Todd Rossi	Co-sponsored and championed by 4.11; RTAR was rejected previously, but comments were addressed in drafting WS. TC 9.9 Research members will review WS and make recommendation in e-mail ballot.
3	Quantifying Building Energy Performance Persistence of Savings	RTAR Draft	Ken Gillespie	Author working on Work Statement

	after Retro-Commissioning	Work Stmt		
4	The Impact of Commissioning on Comfort	RTAR	Dave Shipley	New item. Considerable interest. Coordinate with TC 2.1 and SSPC 55.
5	WS 1115 - Identification of Ideal Monitoring Data Points for Commissioning Support During HVAC Design	RTAR Draft Work Stmt	Dave Shipley	Submitted, accepted, and contractor selected before Tech Council turned it back. We believe some parts may be done by others, so we will reassess need for project, and rescope/redraft WS if necessary. Dave will follow up with Ken Gillespie (PG&E), PECL, and TC1.7 (GPC 4) and make recommendation at next meeting whether to resubmit or drop.

3. Old Ideas

Priority	Title	Status	Author	Notes
	Development and Implementation of Commissioning Strategies for Optimal Control Evaluation	One pager	Dave Shipley	Deferred unless 4.6 is interested in moving it forward. Potentially co-sponsored by 4.6.
	The Building Automation System's Role in Commissioning of HVAC Systems	One pager	Jim Gartner	Deferred unless 1.4 is interested in moving it forward. Could be related to WS 1115. Potentially co-sponsored by 1.4.
	Cost/Benefit Data Model for Commissioning of Commercial Buildings		Karl Stum	Delete.
	Field Performance Assessment of Chilled Water Systems Before and After Commissioning		Ken Gillespie	Delete.
	Automated Tools for Managing the Commissioning Process		Karl Stum	This is being looked at by PECL. Delete or recast to dovetail with PECL or ARTI-funded work.
	Automated Tools for Testplan Generation and Execution		Karl Stum	Delete or recast to dovetail with PECL or ARTI-funded

				work.
	Sensitivity Study of the Economic Value of Different Phases of the commissioning Process		Ken Gillespie	Recast as an element of Phase II of Life-Cycle Cost work statement.
	Evaluation of Existing Functional Test Procedures for HVAC Systems		Ken Gillespie	Delete. PG&E has done this in their protocol library. Look on their website.
	Evaluation of Standards 90.1 and 62 Requirements and development of Commissioning Techniques for Compliance		Elia Sterling	There was interest in increasing priority, but needs a champion.
	A Placeholder for Research Gaps Identified by GPC-1		GPC-1	
	Commissioning Protocol for Energy Management Systems		Ken Gillespie	Delete. Ken will do this as an update to PG&E protocol library.

4. New Ideas

Title/Description
<p>draft proposal from SSPC 62.1, from Eli:</p> <p>IAQ Benefits of Documentation, Commissioning and O&M: Most people agree that in addition to good design, achieving acceptable indoor air quality also requires effective design documentation, commissioning and operation & maintenance. Research on building performance also needs to address the whole lifetime of the building and the ventilation system, including maintainability. The objective of this research could be to establish the costs and benefits of these beyond-design efforts.</p> <p><i>There is considerable interest. Tell Eli that TC 9.9 would be interested in co-sponsoring.</i></p>