



# California Commissioning Collaborative Advisory Council Meeting Minutes

**August 20, 2009**

SMUD Customer Service Center

9 a.m. – 3 p.m.

## **Attendees**

### **Advisory Council**

James Bryan, Arden Realty  
Greg Cunningham, Enovity Inc.  
Keith Forsman, Pacific Gas & Electric Co.  
Don Frey, Architectural Energy Corporation  
Randall Higa, Southern California Edison  
Jim Rosier, Equal Air Balance  
Chris Scruton, PIER  
Mark Walter, Keithly Barber Associates

### **Board of Directors**

Dan Burgoyne, State of California DGS  
Tav Commins, California Energy Commission  
John Cullum, Southern California Gas  
Greydon Hicks, PG&E  
Jim Parks, SMUD

### **CCC Staff and Consultants**

Misti Bruceri, Misti Bruceri Associates  
Jim Flanagan, Jim Flanagan & Associates  
Kirstin Pinit, California Commissioning Collaborative  
Phil Welker, California Commissioning Collaborative

### **Guests**

Mike Anderson, Newcomb Anderson McCormick  
John Beck, EMC Engineers  
James Becker, WCS CA  
Lynn Benningfield, Benningfield Group  
Beth Chambers, California Energy Commission – PIER  
Richard Conrad, Division of the State Architect  
Eliot Crowe, Portland Energy Conservation, Inc.  
Meghan Dewey, EMCOR Energy Services  
Erik Dyrr, KEMA Services, Inc.  
Katie Elliott, PG&E  
Roger Fuller, County of Sacramento  
Mark Hamilton, Sacramento City College  
Tia Hansen, Newcomb Anderson McCormick  
Craig Hoellwarth, California Energy Commission  
Jim Holland, California Energy Commission  
Greg Holzer, Keithly Barber Associates  
Brenda Hopewell, Portland Energy Conservation, Inc.  
Mark Kamrath, Bell Products Mechanical  
Irma Kemp, ACCO Engineered Systems  
Jon McHugh, McHugh Energy Consultants  
Waqar Mustafa, Nexant, Inc.  
Mike Renovich, RSAnalysis, Inc. / AABC  
Howard Sacks, State of California DGS  
Tony Salvador, ACCO Engineered Systems  
James Sarkany, California's Temperature Controls

Coleman Snaith, EMCOR Energy Services  
Alex Teplitsky, Total Facility Optimization  
Asim Tahir, Architectural Energy Corporation

## **Welcome, Introductions, and Announcements**

Don Frey called the meeting to order at 9:30 a.m. Attendees introduced themselves.

## **CCC Announcements**

Phil Welker gave an update on training development and deployment funding opportunities that CCC staff have been monitoring over the past quarter. Two opportunities have been reviewed:

- CA Employment Training Panel (ETP) – funds delivery of training, pay for performance basis
- DOE Funding Opportunity with CEC cost-share – curriculum development for Energy Cx Agents/Auditors

CCC currently does not have budget to pursue these programs as a prime contractor, but will consider ways to support proposals being submitted to the DOE solicitation by Sacramento City College and PEI (with CEC, BCA, NEEA, NYSERDA)

Kirstin Pinit announced:

- The final report of the CCC's 2006-08 PIER Research was submitted in July. The 2009-12 contract involves follow-on from much of this work, and other recent CCC projects.
- ASHRAE will reference the CCC's sample documents and templates in Guidelines 0.2 and 1.2.
- Three CCC documents were recently cataloged in CEC Library and Library of Congress database
  - California Commissioning Guides: New and Existing Buildings
  - 2007 CA RCx Market Characterization

Misti Bruceri and Jim Flanagan gave updates on recent policy activities and projects.

## **Acceptance Testing Enforcement – Findings from the Field**

*Tav Commins, CEC*

*Roger Fuller, Sacramento County*

Tav Commins presented an overview of Acceptance Requirements in Title 24 Non-Residential Efficiency Standards with an overview of the tests required and the CCC's history of development, revision and training on the standards.

Roger Fuller provided insights from the perspective of the building departments who enforce the code, and answered questions from the group.

## **SMACNA Acceptance Testing White Paper**

*Jim Rosier, Equal Air Balance*

*Mark Kamrath, Bell Products Mechanical*

Jim Rosier and Mark Kamrath represented the Joint Committee on Energy and Environmental Policy and presented a white paper entitled, *Applicability of Home Energy Rating System (HERS) Programs to Reduce Air Leakage and Energy Consumption in Nonresidential HVAC Systems*.

The paper is available online at <http://www.jceep.net/downloads.html>.

## **Acceptance Testing Assistant – Software Demonstration**

*Lynn Benningfield, Benningfield Group*

Ms. Benningfield demonstrated the Acceptance Testing Assistant software that was designed to assist contractors in performing acceptance tests required by Title 24. The project was developed as part of the Southern California Edison pilot, Automatic Energy Review for Schools (AERS).

More information is available from:

Lynn Benningfield, Principal  
Benningfield Group  
400 Plaza Drive, Suite 120  
Folsom, CA 95630  
916.221.3110 x 12

## **PIER Research Program Kick-Off**

*Eliot Crowe, CCC Research Program Manager*

The CCC's 2009-12 PIER Research Program: Building Commissioning: Strategies & Technologies for Energy Efficiency kicked off in July. Eliot Crowe reviewed the five projects that make up the program, and discussed the roles of all team members.

The CCC Advisory Council and Board of Directors will act as the Program Advisory Committee (PAC). The AC and Board members discussed their role as PAC members, and no members expressed any concerns about being part of the PAC. Future CCC meetings will be used in-part as working sessions for the research team to report progress, receive PAC feedback and input on next steps and to establish connections between PAC members and the industry at large.

More information is available from:

Eliot Crowe, Research Program Manager  
[ecrowe@peci.org](mailto:ecrowe@peci.org)  
503.961.6123

## **CCC Policy Research: Specifications for Monitoring, Data Collection, Storage, and Communication Capabilities in New and Existing Buildings**

*Misti Bruceri, CCC Consultant*

The California Commissioning Collaborative (CCC) advocates that the California Energy Commission (CEC) include metering requirements for new and/or existing commercial buildings in the 2011 Title 24 Standards. The CCC is currently conducting background research to provide support for this potential code change proposal, and to ensure that adopted requirements will include features that facilitate commissioning activities and enable long-term persistence of commissioning benefits in commercial buildings.

Ms. Bruceri asked the Advisory Council and other attendees for input on key concepts and terms that will be used in a survey of commissioning providers to determine the type and magnitude of data required to commission a building. The results of this project will be presented to the utility Codes and Standards program and the CEC.

To participate in the survey, or request additional information about this project, contact:

Misti Bruceri  
[mistib@comcast.net](mailto:mistib@comcast.net)  
707.252.8355

## **Discussion: Effects of the Economy on the Cx Industry**

*Don Frey, Architectural Energy Corporation*

In July, CCC staff conducted an online survey to gather information from industry participants on how the economy is affecting the commissioning industry. Based on these responses, and additional responses from meeting attendees, Mr. Frey led a discussion to further explore these issues.

## **Wrap - Up**

Advisory Council members agreed that the CCC should move from five to four meetings in 2010. CCC staff will follow up with a meeting schedule and meeting sponsors/locations.

The next CCC meeting will be hosted by San Diego Gas and Electric on October 22, 2009 at the San Diego Hilton (Airport/Harbor Island).

The meeting adjourned at 2:45 p.m.