California Commissioning Collaborative Advisory Council Meeting

October 22, 2009
<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>9:30 a.m.</td>
<td>Welcome, Introductions and Announcements</td>
<td>Don Frey, CCC Advisory Council Chair</td>
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<tr>
<td>10 a.m.</td>
<td>AEC / DGS work on new construction program</td>
<td>Don Frey</td>
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<td>10:45 a.m.</td>
<td>BREAK</td>
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<tr>
<td>11 a.m.</td>
<td>Update &amp; Discussion on incorporation of Cx into California’s Green Building Standard</td>
<td>Dan Burgoyne, Department of General Services</td>
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<td>11:45 a.m.</td>
<td>LUNCH (Provided)</td>
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<tr>
<td>12:45 p.m.</td>
<td>CCC Title 24 Project Updates</td>
<td>Kirstin Pinit, CCC Program Manager</td>
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<td>1 p.m.</td>
<td>CCC PIER - Projects update and discussion (‘PAC Meeting’)</td>
<td>Eliot Crowe, CCC Research Program Manager, Beth Chambers, CEC Contract Manager</td>
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<td>2 p.m.</td>
<td>&quot;Arden Access&quot; Ongoing Cx tools and implementation plan</td>
<td>James Bryan, Arden Realty, Michael Putich, Climatec</td>
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<td>2:45 p.m.</td>
<td>Wrap-Up</td>
<td>Don Frey</td>
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<tr>
<td>3 p.m.</td>
<td>Advisory Council Meeting Adjourns</td>
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Introductions & Announcements
Summary of report:


- selected slides from author’s presentation

Eliot Crowe, PECI
AEC / DGS work on new construction program

Don Frey
Break

10:45 – 11 a.m.
Update & Discussion on incorporation of Cx into Green Building Standard

Dan Burgoyne
Lunch

11:45 a.m. – 12:45 p.m.
CCC Project Overview: Design-Phase Cx in T24

Kirstin Pinit
CCC – Title 24 Activities Update

Training for Building Inspectors
- ~2 hour demo of equipment, test procedures and results
- ~1.5 hour instruction on acceptance test
- Participants
  - CCC: Develop curriculum (Jon McHugh)
  - SMACNA: Provide training venue and conduct demos
  - CALBO: Market training to building inspectors

Outreach to Building Departments
- CCC developing an “Acceptance Testing Field Guide”
- Work with CALBO to distribute
CCC – Title 24 Activities Update

Commissioning Requirements in Title 24

• Objectives:
  - Impact energy efficiency and optimized building operations
  - Encourage Cx best practices

• Key Considerations:
  - Align with concurrent code development efforts (e.g. CA Green Building Standard)
  - Identify alignment between design-phase Cx activities with acceptance testing requirements
  - Analyze feasibility of compliance/enforcement mechanisms

• Participants
  - Project guidance from Randall Higa (SCE), Martha Brook and Tav Commins (CEC)
  - CCC Staff to lead, with input from Advisory Council and other industry stakeholders
CCC PIER - Projects update and discussion ('PAC Meeting')

Building Commissioning: Strategies & Technologies for Energy Efficiency

Eliot Crowe
"Arden Access" Enterprise Building Automation System

James Bryan, Arden Realty
Michael Putich, Climatec
Wrap Up

Next Meeting: Thursday, March 25
Location: Sacramento
Host: SMUD

Agenda Topics
• Update/status of PIER research program
• Other Topics of Interest
## Tentative 2010 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Host</th>
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<tr>
<td>March 25</td>
<td>SMUD</td>
</tr>
<tr>
<td>June 10</td>
<td>SCE</td>
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<tr>
<td>Sept. 16</td>
<td>PG&amp;E</td>
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<tr>
<td>Dec. 2</td>
<td>Sempra (SoCal Gas)</td>
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Adjourn

Thanks to San Diego Gas & Electric for hosting the meeting today!