California Commissioning Collaborative: 2007 Program Plan

Presented by:
Jim Parks, Chair
CCC Board of Directors

November 1, 2007
Mission and Organization

• Improve building and system performance by developing and promoting viable building commissioning practices in California – Make commissioning standard practice

• Organized in 2000; non-profit status in 2004

• Board of Directors: utilities, state and federal agencies

• Advisory Council: utilities, state and federal agencies, Cx providers, building owners and research institutions
Real-Life Problem in Building

- Cost of corrections: About $500 in parts, 80-100 hours of labor.
- Reduced operating cost – about $7,000 per month.
Cost Effectiveness

0.2 to 1.7 year SPT
(median = 0.7)

Supporting Commissioning Industry

• Strengthening the commissioning industry in California through:
  – Technical and market research
  – Resource and tool development
  – Marketing and outreach

• Increasing awareness and adoption of commissioning and retrocommissioning
Supporting Energy Efficiency Initiatives

• California’s Green Building Executive Order calls for Cx and RCx as a strategy for meeting efficiency goals

• CCC projects provide support and resources
2007 Program Plan

• Support for Retrocommissioning Programs
  – Verification of Savings

• Retrocommissioning Market Development
  – Market Research
  – Owner Outreach

• Resources for Commissioning New & Existing Buildings
  – Title 24 Acceptance Testing Requirements
  – Toolkit for RCx Projects

• Educational Support for Commissioning Industry
  – Analysis and Development of Educational Opportunities

• Administrative Activities
## 2007 Program Plan

<table>
<thead>
<tr>
<th>Project</th>
<th>Estimated Budget</th>
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<tbody>
<tr>
<td></td>
<td>2006</td>
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<tr>
<td>Management</td>
<td>$137,000</td>
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<tr>
<td>Market Research</td>
<td>$17,200</td>
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<tr>
<td>RCx Toolkit</td>
<td>$10,400</td>
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<tr>
<td>Acceptance Testing</td>
<td>$53,000</td>
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<td>Green Building Committee Report</td>
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<td>Verification of Savings</td>
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<tr>
<td>Owner Outreach</td>
<td>$25,000</td>
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<tr>
<td>Analysis of Educational Opportunities</td>
<td>$20,000</td>
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Market Research

- Qualitative study of the value commissioning presents to owner/decision-makers, and how to communicate these values effectively

- Focused on Class A commercial office and hospital sectors

- Follow-on projects designed to dig deeper into the research findings
Owner Outreach

• Educating owners about commissioning opportunities in California

• Activities:
  – Development and distribution of marketing and reference materials
  – Presentations to building owner groups (e.g. BOMA)
  – Publish article/case studies to provide real-world example of commissioning benefits
RCx Toolkit

• Development of tools and resources to assist commissioning leads:
  – Templates
  – Sample documents
  – Energy savings calculation spreadsheets
  – Analysis tools
Verification of Savings

- **Phase 1**: Review and evaluate existing methods for verifying the benefits of retrocommissioning projects

- **Phase 2**: Propose improved methods for M&V; develop a plan to influence future guidelines
Acceptance Testing Requirements

• Develop modifications for Title 24 2008 requirements for acceptance testing of key building systems prior to occupancy
Analysis and Development of Educational Opportunities

- Identify ideal commissioning provider skills/experience
- Analyze how current training offerings meet the needs of the industry
- Recommend ways in which the CCC can help to close any identified gaps in training
Administrative Activities

- Website resources, online library, newsletters
  - Distribution of tools, guides and reference material
  - Free online provider listing

- 4-5 meetings/year
  - Project reports
  - Guest speakers

- Conference presentations and papers
Priorities for the CCC

Policies & Standards

• Ensure the commissioning industry is prepared for California’s “green wave” with increased involvement in policy and codes committees

• Identify avenues for the CCC to streamline and/or accelerate policy development processes
Priorities for the CCC

Measurement & Verification

• Participate in setting standardized validation procedures for retrocommissioning programs
Priorities for the CCC

Comprehensive Service Delivery Model

• Develop service delivery model that streamlines the processes of selling, implementing and maintaining retrocommissioning activities
Priorities for the CCC

Training & Education

• Consider long and short-term solutions for providing the education and training to ensure an adequate workforce of service providers
Opportunities for Participation

- Join the CCC e-mail distribution list
- Use our website as a resource
- Attend meetings

- Contact us for more information
  info@cacx.org
  http://www.cacx.org/