



COMMISSIONING PROJECTS

Project	Year	Cx Type	Building Type (Sq. Ft.)	Description
SYMANTEC DATA CENTER Culver City, CA	2007	2 Party CxA	Data Center 550,000	Mechanical and control system full design and commissioning. Approx. 500,000 sqft office and 50,000 sqft data center.
KLA Tencor Milpitas, CA	2006	3 rd Party CxA	Labs and Offices 680,000	Specify energy retrofit measures, provide PG&E rebate application documents and commissioning for modified equipment and controls. 4-building campus with 2 chiller plants.
SYMANTEC DATA CENTER PHASE 2 Tucson, AZ	2006	2 Party CxA	Data Center 20,000	Design and commissioning including mechanical, plumbing and controls for expansion of an existing data center.
Alameda Free Library Alameda, CA	2006	2 Party CxA	Public Library 45,000	Full Plan & Spec Design, Energy Analysis and Optimization, LEED documentation, and complete control system commissioning and functional testing.
St. Anthony's Foundation San Francisco, CA	2006	3 rd Party CxA	Public Library 46,000	LEED Commissioning Authority
UC Merced Sierra Terraces Merced, CA	2006	2 Party CxA	University Dormitory 32,000	Full Plan & Spec Design, complete control system commissioning and functional testing.
Vista Community College Berkeley, CA	2006	2 Party CxA	Community College 170,000	Mechanical and control system design and commissioning.
Morgan Hill Indoor Recreation Center Morgan Hill, CA	2006	2 Party CxA	Rec Center & Natatorium 50,000	Mechanical and control system design and commissioning.
Orinda new City Offices Orinda, CA	2006	2 Party CxA	City Offices 13,000	Full design of HVAC, plumbing, and energy management & control systems. Energy modeling and life cycle costs analysis of energy efficiency options. LEED and Savings By Design analysis and documentation. HVAC system and control system commissioning.



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Petaluma Kenilworth Jr. High School Petaluma, CA	2006	3 rd Party CxA	Jr. High School 85,000	Energy consultation and mechanical engineering peer review, plus independent third party commissioning agent
UC Santa Cruz Humanities Facility Santa Cruz, CA	2006	2 Party CxA	Classrooms and Offices 85,000	Mechanical and control system design review and commissioning.
CHARTWELL SCHOOL Seaside, CA	2006	2 Party CxA	School 20,000	Mechanical and control system full design and commissioning. Commissioning plan meets LEED Prerequisite and Additional Cx credit. Project will be submitted for a LEED Platinum rating.
HEWLETT PACKARD Palo Alto, CA	2005	3 rd Party CxA	Labs /Offices 240,000	Commission retrofitted 1,500 ton chiller plant and emergency backup operation to additional 1,500 ton plant.
East Palo Alto YMCA East Palo Alto, CA	2005	2 Party CxA	YMCA 41,000	Mechanical and control system commissioning.
Ross Stores Corporate Headquarters Pleasanton, CA	2005	2 Party CxA	Office building and data center 150,000	Remodel of existing building for new Headquarters of Ross clothing retailer. 3,000 sqft data center with underfloor air distribution and FM200 system.
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	2005/6	3 rd Party CxA	Lab / Classroom 1,300,000	Specification & commissioning of new control system for 9 buildings at SF campus, 3 rd party design review of control system and commissioning on 10 th building.
PG&E San Ramon Valley Conference Center (SRVCC) San Ramon, CA	2005	2 Party CxA	Conference Center 40,000	Mechanical and control system design and commissioning.
PG&E Thermal and Ecological Services (TES) San Ramon, CA	2005	2 Party CxA	Research and office building 32,000	Mechanical and control system design and commissioning.
KLA TENCOR Livermore, CA	2005	3 rd Party CxA	Cleanroom / classroom 120,000	Specification & commissioning of control system/hardware improvements for improved energy efficiency of clean room and central plant.



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LETTERMAN DIGITAL ARTS CENTER San Francisco, CA	2004/5	3 rd Party CxA	Office 1,500,000	Control system design review, development of control sequences, and central plant commissioning.
SAN MATEO PUBLIC LIBRARY San Mateo, CA	2004/5	3 rd Party CxA	Library 45,000	Mechanical and control system design review and commissioning. Commissioning plan meets LEED Prerequisite and Additional Cx credit. Project will be submitted for LEED Gold certification.
UNIVERSITY OF CALIFORNIA MERCED Merced, CA	2004/5	3 rd Party CxA	Central Plant, Library, Classroom, Science Building, Housing and Dining Buildings 400,000	Control system design and commissioning. Also developed Cx master plan and EMCS master design for campus, to be used on all future projects. Commissioning plan meets LEED Prerequisite and Additional Cx credit. Project will be submitted for LEED Silver certification.
CalPERS HEADQUARTERS BUILDING Sacramento, CA	2004/5	3 rd Party CxA	Office 500,000	Mechanical and control system design review and commissioning. Project will be submitted for LEED Gold certification.
nVidia DATA CENTER San Jose, CA	2004	3 rd Party CxA	Data Center 15,000	Mechanical and control system design review and commissioning.
CAPITOL AREA EAST END COMPLEX, BLOCK 225 Sacramento, CA.	2004	2 Party CxA	Office 330,000	Control system design and commissioning; mechanical system commissioning. Commissioning plan met LEED Prerequisite and Additional Cx credit. Project achieved a LEED Gold rating.
SYMANTEC DATA CENTER PHASE 1 Tucson, AZ	2004	2 Party CxA	Data Center 20,000	Mechanical and control system full design and commissioning.
SERVICE CENTER BUILDING #3 San Jose, CA	2004	3 rd Party CxA	Office 6,000	Mechanical and control system design review and commissioning.



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JASPER RIDGE BIOLOGICAL PRESERVE FIELD STATION Stanford, CA	2003	3 rd Party CxA	Field station 10,000	Mechanical and control system design review, design intent documentation, and commissioning. System included solar hot-water space heating system.
GAP HEADQUARTERS 250 EMBARCADERO San Francisco, CA	2002	2 Party CxA	Office 580,000	Mechanical and control system design review and commissioning. Also assisted in life safety system design and commissioning.
IBM CHILLER PLANT San Jose, CA	1998	Retro-Cx	Central Chiller Plant	Energy modeling, controls design and retrofit, and retro-commissioning of 17,000 ton central chiller plant. Post retrofit M&V showed actual energy performance was over \$250,000 per year. Reference: Lynn Guest, (408)256-2830
SAN FRANCISCO CIVIC CENTER COURTHOUSE San Francisco, CA	1997	Cx Plan	Courthouse 250,000	Developed the mechanical and control system commissioning plan, including pre-functional and functional tests, performed by contractor.
SODA HALL, UC BERKELEY Berkeley, CA	1996	Retro-Cx	Classroom 150,000	Retro-commissioning of central chiller plant and control system. Reference: Mary Ann Piette, (510) 486-6286
RIDGEHAVEN "GREEN BUILDING" San Diego, CA	1996	3 rd Party CxA	Office 150,000	Energy modeling, mechanical and control system commissioning. This was one of the first "green building" projects in the State initiated by USGBC founder David Gottfried,
ASHRAE HEADQUARTERS Atlanta, GA	1992	3 rd Party CxA	Office 40,000	Mechanical and control system design review and commissioning.