

CONTRACT REQUESTS FORM (CRF)

CEC-94 (Revised 5/11)

CALIFORNIA ENERGY COMMISSION



New Contract _____ Amendment to Existing Contract: 500-10-014 Amendment Number: 1

Division	Contract Manager:	MS-	Phone	CM Training Date
Energy Research and Development	David Weightman	43	916-327-1631	12/4/2008

Contractor's Legal Name	Federal ID Number
Bruce Wilcox	53-3468094

Title of Project
Central Valley Research Home Program

Term	Start Date	End Date	Amount
New/Original Contract	9/27/2010	3/15/2014	\$ 1,882,091

Line up the Amendment information as best as possible within the following table.

Amendment #	End Date (mm/dd/yy)	Amount
Amendment 1	3/15/2015	\$0

Business Meeting Information

Proposed Business Meeting Date	11/2/2011	<input checked="" type="checkbox"/> Consent	<input type="checkbox"/> Discussion
Business Meeting Presenter	David Weightman	Time Needed:	

Agenda Item Subject and Description

Possible approval of Amendment 1 to Agreement 500-10-014 with Bruce Wilcox to extend the agreement from March 15, 2014 to March 15, 2015. The agreement amount is \$1,882,091. The purpose of the research is unchanged and will heavily instrument, unoccupied homes in or near Stockton, and operate them for about two years to determine the energy efficiency of the homes using the Energy Commission's Home Energy Rating System (HERS) software and compare it with actual measured data, and to install selected envelope and HVAC efficiency upgrades to achieve 50-75 percent savings in heating and cooling energy. (Contact: David Weightman)

Business Meeting approval is not required for the following types of contracts: *Executive Director's signature is required in all cases.*

- Contracts less than \$10k (*Policy Committee's signature is also required*)
- Amendment for a no-cost time extension. Must be first extension, less than one year and original contract less than \$100k.
- Contracts less than \$25k for Expert Witness in Energy Facility licensing cases and amendments.

Purpose of Contract or Purpose of Amendment, if applicable

The research team will 1) set up a "laboratory" of four heavily instrumented, unoccupied homes in or near Stockton, operated to carry out a set of carefully designed and controlled experiments in energy efficiency retrofit measures; 2) analyze the as-found baseline heating and cooling loads and heating and cooling efficiency of the research homes; 3) produce a calibrated simulation model of each home, using the measured characteristics and detailed hourly data to adjust model parameters and algorithms for accuracy; 4) compare energy use and energy efficiency of the homes to simulated energy use of a similar home meeting the Building Energy Efficiency Standards for new homes; 4) develop and validate packages of envelope and HVAC efficiency upgrades for the test houses. The packages will be designed to achieve 50-75 percent savings in heating and cooling energy, using techniques which could be cost effective when applied as part of a multi-house, optimized upgrade program; 5) develop life cycle cost-effective packages of retrofit measures that save 50 to 75 percent of the as-found heating and cooling energy use in the experimental homes; 6) develop and test improvements to the heating and cooling energy estimates produced by the Energy Commission's Home Energy Rating System (HERS) software and procedures to identify and characterize alternative air distribution systems that are of interest because of their popularity and/or impact on energy use. The primary technology transfer will be via the Title 24 energy efficiency standards and the Energy Commission's HERS staff and processes, where results and reports will form the basis of changes for future standards.

In addition, the projects in this Central Valley Research Home Program will provide critical information on the energy, peak demand, and carbon savings available from cost effective efficiency upgrades in existing California homes. The program will test and improve the HERS procedures that are central to large scale efficiency retrofit programs. It will also provide solid data on the energy and peak demand impacts of alternative heating and cooling distribution systems.

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California Environmental Quality Act (CEQA) Compliance

1. Is Contract considered a "Project" under CEQA?
 Yes: skip to question 2 No: complete the following (PRC 21065 and 14 CCR 15378):
 Explain why contract is not considered a "Project":
 Contract will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because .

2. If contract is considered a "Project" under CEQA:
 a) Contract **IS** exempt. (Draft NOE required)
 Statutory Exemption. List PRC and/or CCR section number: _____
 Categorical Exemption. List CCR section number: 14 CCR 15301
 Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why contract is exempt under the above section:
 Class 1 - Operation, repair, maintenance, or minor alteration of existing structures or facilities not expanding existing uses.
 b) Contract **IS NOT** exempt. The Contract Manager needs to consult with the Energy Commission attorney assigned to their division and the Siting Office regarding a possible Initial Study.

Budgets Information

Contract Amount Funded		Breakdown by FY			Funding Sources			
Funding Source	Amount	FY	Amount	Approved?	Funding Source	FY	Budget List No.	Amount
ARFVTF	\$		\$					\$
ECAA	\$		\$					\$
State- ERPA	\$		\$					\$
Federal	\$		\$					\$
PIER - E	\$		\$					\$
PIER - NG	\$		\$					\$
Reimbursement	\$		\$					\$
Other	\$		\$					\$
TOTAL:	\$0	TOTAL:	\$0				TOTAL:	\$0
Reimbursement Contract #:					Federal Agreement			

Contractor's Administrator/ Officer		Contractor's Project Manager	
Name:	Bruce Wilcox	Name:	Bruce Wilcox
Address:	1110 Monterey Ave	Address:	1110 Monterey Ave
City, State, Zip:	Berkeley, CA 94707-2725	City, State, Zip:	Berkeley, CA 94707-2725
Phone/ Fax:	510-528-4406 / (510) 588-4678	Phone/ Fax:	510-528-4406 / (510) 588-4678
E-Mail:	bwilcox@lmi.net	E-Mail:	bwilcox@lmi.net

Contractor Is

Private Company (including non-profits)
 CA State Agency (including UC and CSU)
 Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

Selection Process Used

Solicitation RFP Solicitation #: 50008503 # of Bids: _____ Low Bid? No Yes
 Non Competitive Bid (Attach CEC 96)
 Exempt Select Exemption

Civil Service Considerations

Not Applicable (Contract is with a CA State Entity or a membership/co-sponsorship)
 Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)

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- The Services Contracted:
 - are not available within civil service
 - cannot be performed satisfactorily by civil service employees
 - are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.
- The Services are of such an:
 - urgent
 - temporary, or
 - occasional nature
 that the delay to implement under civil service would frustrate their very purpose.

Justification:

Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)

Payment Method

- A. Reimbursement in arrears based on:
 - Itemized Monthly Itemized Quarterly Flat Rate One-time
- B. Advanced Payment
- C. Other, explain:

Retention

- 1. Is contract subject to retention? No Yes
- If Yes, Do you plan to release retention prior to contract termination? No Yes

Justification of Rates

Rates are unchanged as per the contract in place.

Disabled Veteran Business Enterprise Program (DVBE)

- 1. Not Applicable
- 2. Meets DVBE Requirements DVBE Amount:\$ 99816 DVBE %: 5
 - Contractor is Certified DVBE
 - Contractor is Subcontracting with a DVBE: DHS Associates
- 3. Requesting DVBE Exemption (attach CEC 95)

Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE? No Yes

If yes, check appropriate box: SB MB DVBE

Is Contractor subcontracting any services? No Yes

If yes, give company name and identify if they are a Small Business (SB), Micro Business (MB) and/or DVBE:

Enercomp	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
DHS Associates	<input type="checkbox"/> No	<input checked="" type="checkbox"/> SB	<input checked="" type="checkbox"/> MB	<input checked="" type="checkbox"/> DVBE
Chitwood Energy Management	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
Proctor Engineering Group	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
Green Home Solutions by Grupe	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
Wrightsoft Corporation	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
Mountain Energy Partnership	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
Phil Niles	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE

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Miscellaneous Contract Information		
1. Will there be Work Authorizations?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
2. Is the Contractor providing confidential information?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
3. Is the contractor going to purchase equipment?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
4. Check frequency of progress reports <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input type="checkbox"/> _____		
5. Will a final report be required?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
6. Is the contract, with amendments, longer than a year? If yes, why?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
The Department of General Services has agreed to give the Commission blanket authority to execute multi-year contracts to support the Commission's RD&D Programs.		

The following items should be attached to this CRF		
1. Scope of Work, Attach as Exhibit A.	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
2. Budget Detail, Attach as Exhibit B.	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
3. CEC 96, NCB Request	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
4. CEC 30, Survey of Prior Work	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
5. CEC 95, DVBE Exemption Request	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
6. Draft CEQA Notice of Exemption (NOE)	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
7. Resumes	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
8. CEC 105, Questionnaire for Identifying Conflicts		<input type="checkbox"/> Attached
9. CEC 106, IT Component Reporting Form		<input type="checkbox"/> Attached

Contract Manager Date Office Manager Date Deputy Director Date

The following signatures are only required when contract approval is delegated to the Executive Office and not approved at a Business Meeting. See Business Meeting Information Section.

Presiding Policy Committee Date Associate Policy Committee Date Executive Director Date