



January 31, 2017

**TO:** CALIFORNIA LICENSED CONTRACTORS  
LICENSED HOME IMPROVEMENT CONTRACTORS

**FROM:** PACE ENERGY & ENVIRONMENTAL SERVICES (EES)

**RE:** REQUEST FOR QUALIFICATIONS/BID FOR SERVICES

**PURPOSE:** Pacific Asian Consortium in Employment (PACE) is soliciting bids for services related to the implementation of its Weatherization Program Contracts including the Federal Department of Health's Low Income Home Energy Assistance (LIHEAP) Program, the state of California Low Income Weatherization Program (LIWIP) and the Department of Energy Weatherization Assistance Program (DOE-WAP). These services are to be provided at single and multi-family dwellings located in the PACE service area. Bidders are encouraged to apply for all service contracts for which they qualify including:

1. Heating, Venting and Air Conditioning (HVAC)/Plumbing
2. Electrical Services
3. Insulation Installation Services
4. Weatherization Services

An additional objective of this BID is to ensure that all materials and or services meet the standards of PACE and its funding source, the California Department of Community Services and Development (CSD). All services will be provided in the timeframe established by PACE.

**INTRODUCTION:**

PACE is a private and not-for-profit community development corporation that implements various programs benefitting Los Angeles area communities. It operates a comprehensive Weatherization Program through its Energy and Environmental Services (EES) Department. This program is contracted with the State of California Department of Community Services and Development (CSD) and with federal resources that include the Department of Health and Human Services' Low Income Home Energy Assistance Program (LIHEAP) and U.S. Department of Energy Weatherization Assistance Program (DOE WAP). The programs aim to reduce energy costs for low income households by providing no-cost/no out of pocket installation of measures to make their homes more energy efficient, comfortable and safer places to live. While typical measures may include but are not limited to minor home repair, mitigation of air infiltration and reduction of electric base load consumption, this BID specifically addresses measures associated with the repair and replacement of heating, venting & air conditioning appliances including minor plumbing work,

insulation installation and provision of electrical services and weatherization services related to the Weatherization Program as described below.

**SERVICES FOR BIDDING INCLUDE THE FOLLOWING:**

**1. HVAC – Heating , Venting & Air Conditioning and Plumbing**

- a. All HVAC/Plumbing services associated with the Weatherization Program including diagnosis, repair/replacement of gas/electric appliances including all types of furnaces, AC equipment, stoves and hot water heaters. These services may also include the combustion appliance safety test (CAS). Bidders who are not certified by the California Department of Community Services and Development (CSD) to perform CAS testing are encouraged to obtain this certification, although this certification is not a pre-requisite for submitting a bid. These services do not include the Duct Blaster pressure diagnostics which are performed by PACE and HERS rating, which is performed by a third party contractor when required by local jurisdictions.
- b. On occasion, work may also include additional install/repair of duct system associated with HVAC appliances.
- c. Replacement of water conserving plumbing fixtures such as “Low Flow” toilets as required by state and local ordinances.

**2. Electrical Work**

Includes all additional electrical work (excluding electrical work associated with HVAC installation, overhaul ordinarily performed by HVAC technicians/workers) as it relates to Weatherization Services such as:

- a. Providing and installing properly grounded electrical receptacles:
  - (1) Indoor electrical receptacles for refrigerators, stoves
- b. Installing mechanical ventilation systems including fans, electrical conduits, controllers and switches, as required
- c. Troubleshooting/performing other electrical work related to weatherization such as installing hard wire lamps, ceiling fans, vacancy sensors, kitchen exhaust fan and other fixtures.

**3. Insulation Installation**

All insulation installation services relating to PACE's Weatherization Program. Services to be performed primarily in conventional single family and multi-family dwellings.

- a. Attic/Ceiling insulation: Providing and installing attic/ceiling insulation. This represents the bulk of the insulation installation services for PACE's Weatherization Program.
- b. Floor Insulation: Providing and installing floor insulation as required.
- c. Wall Insulation: Providing and installing wall insulation in existing residential structures.

#### **4. Weatherization Services**

Performance of services that will enhance energy efficiency, safety and comfort in single and multi-family dwellings listed in the attached schedule (Attachment 7).

- a. Services include outreach to property owners located in PACE's service area, including signing up residents/tenants of these properties;
- b. Installation of measures or services identified by PACE/PACE representatives in compliance with CSD guidelines and other applicable building and safety regulations;
- c. Correction or changes in installed measures or services per PACE direction.

All services being bidded out must comply with guidelines provided under the California Department of Community Services and Development (CSD) Weatherization Installation Standards (WIS) Manual. A copy of the WIS Manual will be provided to subcontractors awarded any and/or all of the above services.

# **Request for Qualifications/Bid for Service Proposal PACE Energy and Environmental Services (EES)**

## **BID Instructions**

This Request for Bid for Service Proposal is solely for use by the PACE Energy and Environmental Services (EES) Department and is comprised of the following:

- a. Cover Memorandum dated **January 31, 2017**
- b. BID instructions
- c. General Information
- d. Minimum Requirements, Certifications and Assurances
- e. Evaluation Criteria
- f. Bid Submittal Form, Attachment 1
- g. Contractor Information Regarding Debarment and Suspension Attachment 2
- h. Additional Company Information – Attachment 3
- i. HVAC / Plumbing Services - Attachment 4
- j. Electrical Services – Attachment 5
- k. Insulation Services - Attachment 6
- l. Weatherization Services - Attachment 7
- m. Zip Codes – PACE’s Service Area – Attachment 8
- n. Material Specifications
- o. Weatherization Minimum Warranty Requirements
- p. CSD Training Requirements Matrix

### **QUOTATIONS SUBMISSION:**

All information provided in response to this Request for Bids is subject to verification. Misleading and/or inaccurate information shall be grounds for disqualification at any stage in the procurement process.

PACE is conducting an open bid for the above listed services. In this instance, OPEN BID refers to the process whereby qualified subcontractors submit their quotations for listed services to PACE and the quotations or prices and/or fees are not kept secret. Quotations package/s shall be submitted and PACE will continue to accept bids or quotations from all responsible and qualified bidders until all its requirements are met (open ended basis).

PACE will open bids or quotations when these are received from responsible, qualified companies for evaluation as to eligibility beginning 30 days after this Bid Announcement has been circulated/posted inviting all interested parties to submit their quotation or bid for the above listed work.

All bids must be clearly labeled with the following information: “Weatherization Invitation to Bid” addressed to:

**PACE Energy and Environmental Services Department  
1055 Wilshire Blvd. Suite #900E  
Los Angeles, CA 90017  
Attn: Beth Viray**

Quotations will be accepted in person, by courier service or U.S. Mail.

**NOTE: Unacceptable methods include electronic versions/e-mail, or fax/facsimile copies.**

**FORMAT:**

Use the enclosed forms. **ALL BIDS MUST CONTAIN AN ORIGINAL SIGNATURE AND DATE** from the company's Chief Executive Officer, President, Business Owner, or Sole Proprietor.

**OPENING QUOTATIONS:**

Quotations will be opened on a continuous basis, as these are received. Quotations are not subject to public inspection.

**CONTACTS:**

PACE reserves the right to contact bidders for additional information and/or for clarification of the information contained within their bid.

**INTEGRITY OF BIDS**

By signing the BID, the bidder affirms that he/she has not given any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a PACE member in connection with the submitted quotations. Failure to sign the BID quotations, or signing it with false statement shall void the submitted quotations or any resulting agreements and the BIDDER shall be removed from Eligibility List.

**ECONOMY OF PRESENTATION**

Quotations must address the specific BID requirements. All items requested by the BID shall be answered clearly and concisely. Additional promotional materials that are not responsive to a specific requirement shall not be included in the quotation response package.

**PRICING, PAYMENTS AND SCHEDULE:**

This agreement will be on a fixed price basis. Payments will be made 30 days after completion of work or delivery of services, inspection, and acceptance by PACE. All price quotes should be all inclusive: covering administrative costs, labor & materials, , overhead and other related costs.

**KEY DATES**

Request for Bids Issued:	January 31, 2017
Quotations due:	No deadline at this time; open ended until PACE meets capacity. Bids/Quotations will begin to be opened and evaluated 15 days after this notice to bid is posted/circulated inviting all interested parties to participate and will continuously be accepted until PACE requirements are met.

**INQUIRIES:**

All inquiries concerning this Request for Bids will be submitted in writing addressed to:

PACE Energy & Environmental Services Department  
**ATTN: Beth Viray**  
1055 Wilshire Blvd. #900E  
Los Angeles, CA 90017

[bviray@pacela.org](mailto:bviray@pacela.org)

213-989-3279

In no case shall oral communications take precedence over written communications. Only written communications shall be binding on the BID.

PACE assumes no responsibility for representations concerning conditions made by its officers or staff prior to the execution of an agreement, unless such representations are specifically incorporated in the BID by subsequent official written addendum(s). Oral conversations pertaining to modifications or clarifications of the BID shall not be considered part of the BID unless confirmed in writing by official written addendum(s).

### **BID MODIFICATION**

PACE shall prepare written Modification(s) if needed. All modifications to this BID shall be prepared by PACE. All bidders should check [www.pacela.org](http://www.pacela.org) regularly for notices regarding changes to bids/forms. Addenda shall be issued not later than the dates in the schedule.

### **CERTIFICATION OF INDEPENDENT PRICE DETERMINATION**

By submission of this BID, the Bidder certifies that in connection with this BID:

- a. Prices in the quotations have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any competitor.

Each person signing the BID certifies either that:

- a. He or she is the person at the Bidder's organization responsible for the decision as to any prices being offered herein, and that he or she has not participated in, and shall not participate in, any action contrary to the requirements of this document.
- b. He or she is not the person in the Bidder's organization responsible for the decision as to any prices being offered herein, but that he or she has been authorized to act as agent for the persons responsible for such decision. Furthermore, those persons have not participated in, and shall not participate in, any action contrary to the requirements of this document.

Any offer made in the submitted quotations, and any clarifications to the quotations shall be signed by an officer of the Bidding firm or designated agent empowered to bind the firm in an agreement.

### **DISCLAIMER**

PACE reserves the right to accept or reject any part of any quotations and to accept or reject any or all quotations without penalty. PACE reserves the right to waive minor deficiencies and informalities if, in the judgment of PACE, the best interest of PACE shall be served. During any given time, PACE has sole discretion to decide whether or not to subcontract out one or more programs and/or components to one or more approved subcontractors. Additionally, PACE retains the right to change the terms and/or conditions of an executed subcontract during the term of that agreement if funding or other conditions require an action to occur.

## **General Information**

### **On-Call/Activation Term:**

This Request for Bids will be used to identify and approve eligible licensed contractors. During this time period, contracts may be issued to approved subcontractors for specific work to be completed based on need, performance and funding availability.

### **Performance Standards:**

All services provided are to be completed based on specific instructions, standards of installation, policies/procedures and/or other factors mandated by each of the contract's funding sources. For performance of all HVAC/Plumbing, Electrical and Insulation services related to weatherization and concerning Weatherization work, all the materials and installation work shall adhere to the standards set by the State of California Department of Community Services and Development's (CSD) Weatherization Installation Standards (WIS) Manual and all state/local/municipal codes. A copy of the WIS Manual will be provided to selected subcontractors. All work will be inspected by PACE quality control Inspectors and as required by local/municipal building inspectors. The subcontractor is required to cooperate with all inspectors and address and correct all findings before any given project is finalized.

Subcontractors applying to perform Weatherization Services should refer to Section "o", that lists the minimum warranty/ies that subcontractors MUST provide for any and all weatherization work performed.

### **Licensing and Certifications:**

Contractors must possess and maintain in good standing all required licensing issued by the California State Licensing Board (CSLB) or provide evidence of an Exemption Waiver if a governmental entity. These requirements also include all insurance certificates, (Workers Compensation and Liability Certificates) and necessary permits to perform the relevant activity/service ( HVAC/Plumbing, Electrical, Insulation and Weatherization services) under bid. These requirements shall be in force and remain in force for the duration of the contract period.

#### **HVAC:**

Warm-Air Heating, Ventilating and Air-Conditioning Contractor License (C20)

#### **Plumbing:**

Plumbing Contractor License (C36).

#### **Electrical:**

Electrical Contractor License (C10)

#### **Insulation:**

Insulation Contractor License (C2)

#### **Weatherization:**

Weatherization and Energy Conservation License (D65).

### **Minimum Requirements, Certification & Assurances:**

In order to be approved as a Subcontractor, the following requirements, certifications and/or assurances must be met:

1. Appropriate licensing by the State is held by the Sub-contractor's owner and/or their key staff assigned to directly work on PACE contracts;
2. The Subcontractor maintains sufficient number of qualified staff to complete the activity, service and/or production level within the stated/required time period.
3. Bidders shall furnish PACE with satisfactory evidence of their financial ability to perform the services specified. Each Bidder shall provide a list of successful experience with similar scope and technical skill set or other relevant experience that qualify the Bidder to implement the services identified for bid.
4. Subcontractor is an independent entity, totally separate and apart from PACE and holds PACE and its Funding Sources harmless for any action or omissions for work completed.
5. Must provide warranty on product and workmanship for duration of the contract.
6. Insurance requirements and minimum limits will be met and maintained. Proof of insurance, training or certifications will be furnished. Required documents shall include: General Liability, Automobile Liability, Pollution Occurrence Insurance and Workers Compensation. PACE is to be named as "additional insured".
7. Only authorized individuals/signatories (such as the Company Owner or Sole Proprietor) will be contacted to negotiate the subcontract. The signatory on this Bid must match the signatory on any subcontract that is negotiated and executed. Should a change in ownership within a company occur and the original owner leaves, the bid and subsequent subcontract is null and void. No subcontract can be transferred to another entity.
8. Subcontractor must demonstrate to meet all federal, state and local laws regarding equal opportunity employment, nondiscrimination, drug and other certifications as deemed appropriate by this subcontract. Subcontractor assures that there are no outstanding legal actions past, pending or soon to be underway with regard to their company, licensing, tax filing, financial status or other related matter which could jeopardize the programs or entities that fund the negotiated subcontract.
9. Additional assurances as required by our funding sources and/or which apply to the subcontract negotiated must be met and agreed to as part of subcontract negotiation process before a subcontract will be approved and executed by PACE'S Officers and Board.
10. Organizational and financial capability (adequate staffing with qualified personnel, necessary equipment, capital and/or financing) to complete the activity, service and/or production level within the stated/required time period.



## **Additional Requirements & Certifications**

### **Training and Certification Costs and Fees:**

Additional training is mandatory for all subcontractors, supervisors and staff directly working to complete production goals of PACE Contracts. Before commencement of work, all subcontractors must complete training and possess or be willing to obtain the following certification:

- a. Lead Renovator Certificates required for crew supervisors (8 hr class) along with certification by the US Environmental Protection Agency (EPA) for subcontractor/organization to conduct lead based paint renovation, repair and painting activities.
- b. Asbestos Class IV OSHA & AHERA Awareness Course
- c. OSHA 10 Hour/30 Hour Certificates for field personnel and supervisors. This is OSHA's General Industry Outreach Training Program covering the basics of occupational safety and health. The 10-hour course is designed to provide workers on the basics of the OSHA regulations while the 30 hour course provides managers/supervisors with necessary information on OSHA essentials, important industry and construction standards, and what is needed to manage the safety effort.
- d. All subcontractors must also arrange for their field crews to complete the Health & Safety/ Environmental Hazards online training at PACE (8 hr. session) as required by the California Department of Community Services and Development (CSD).
- e. Furthermore, all subcontractors must develop, implement and maintain an Injury and Illness Prevention Program (IIPP), if they don't have one in place already. As part of this IIPP requirement Supervisory employees shall conduct "toolbox" or "tailgate" safety meetings, or equivalent, with their crews at least every 10 working days to emphasize safety.

All subcontractors must also successfully complete CSD training requirements outlined in the CSD training matrix (please refer to item "p", Bid Instructions).

None of the costs incurred for travel, meals, supplies, lodging or transportation to obtain the required training or certification are reimbursable by PACE.

## **EVALUATION CRITERIA:**

PACE will evaluate bid proposals based on completeness of Bidder's response and provision of information related to the criteria below, with each assigned a given weight.

- a. Contractor's Credentials, both operational and financial - (15%)
- b. Skill and Experience including working with Non- Profits and Energy Programs - (40%)
- c. Response (Fee Schedule and/or Price Quotes) to the Energy Conservation Measures List - (40%)
- d. Women's and/or Minority, Disabled Veterans Business Enterprise (WMDVBE) status - (5%).

Below are some indicators of these factors.

1. Completeness of proposal/bid documents, conformity to specifications and scope of work;
2. Previous and current experience of principal members of the Bidder's organization in the installation of measures as listed in "Measures List" or successful projects of similar breadth, scope and technical skill set.
3. All potential contractors/bidders must possess the minimum required licensing /certification requirements as outlined above, otherwise they will be excluded. Potential contractors/ bidders must be willing to obtain additional certification/s as required by CSD and the EPA (outlined above). These additional requirements will not be used as a basis for evaluation; however no contract shall be awarded to the winning bidder until these requirements are met.
4. References from existing and past customers. ( At least 3 references are required).
5. Fee schedule and/or price quotes for measures identified in the Measures Index shall include administration, labor, materials and disposal. Permits and licensing fees shall be treated as separate measures billed at actual cost, unless otherwise noted.
6. Firms with Women's and/or Minority, Disabled Veterans Business Enterprise (WMDVBE) certification are given priority, given all other qualifications are met and price quotes are competitive.

**Attachment 1**

**BID SUBMITTAL FORM - ALL APPLICANTS**

FAILURE TO SIGN AND RETURN THIS BID/SUBMITTAL FORM WITH YOUR BID MAY BE CAUSE FOR REJECTION.

Note: If applicable, copies of your Registrar of Contractor's License and local tax licenses must accompany this application. If qualified, also include a copy of your certificate from a Women's and/or Minority, Disabled Veterans Business Enterprise (WMDVBE) program. Please ask your insurance agent to submit a copy of your Certificate of Insurance and Bonding.

_____	
Company Name _____	
_____	
Printed Name of Bidder's Authorized Officer/Representative _____	
_____	
Signature of Authorized Officer/Representative _____	Date _____
_____	
Business Address _____	
_____	
Telephone Number _____	Cellular Number _____
_____	
Fax Number _____	Email Address _____
_____	
Federal I.D. # _____	
_____	
If not Incorporated, SocialSecurity# _____	
_____	
Privilege Tax # _____	Expiration Date _____
_____	
Registrar of Contractors # _____	Expiration Date _____
_____	
Classification Number _____	Expiration Date _____
_____	
Do you have a Contractor's License in this Area? Yes _____ No _____	
_____	
Are you registered with a Women's and/or Minority, Disabled Veterans Business Enterprise (WMDVBE) program or LSA? Yes _____ No _____	
_____	
If your answer is yes, please provide copy of certification.	
_____	
How long have you been in the contracting business? _____	
_____	
Please check the type(s) of construction you have performed in the last year:	
_____ Home Remodeling _____ Home Building _____ Major construction (specify) _____	
_____	

Please list all education and training that you have had specific to Heating, Venting and Air Conditioning (HVAC) / Plumbing and/or Electrical services.

Training	Date
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Please List all other relevant certifications that you have obtained related to Heating, Ventilation and Air Conditioning (HVAC)/Plumbing /Electrical Services and/or Weatherization Services.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

List two major suppliers from whom you purchase most of your materials:

Name	Address	Phone Number
_____	_____	_____
_____	_____	_____

Name two financial institutions (banks, savings and loan association, etc.) with whom you have established credit:

\_\_\_\_\_  
\_\_\_\_\_

List the names, addresses and contact information (Phone numbers/ e-mails) of the last three clients for whom you have provided services / completed a project.

1. Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone / e-mail: \_\_\_\_\_

2. Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone / e-mail: \_\_\_\_\_

3. Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone / e-mail: \_\_\_\_\_

Approximately how many jobs have you completed as a general contractor? \_\_\_\_\_

What is the smallest/value job you have done? \_\_\_\_\_

What is the largest/value job you have done? \_\_\_\_\_

How many employees do you employ full time? \_\_\_\_\_

Have you completed projects funded by HUD, CSD/DOE/LIHEAP? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, when and where? \_\_\_\_\_

What type of job? \_\_\_\_\_

THE UNDERSIGNED SUBCONTRACTOR CERTIFIES THAT ALL INFORMATION GIVEN HEREIN IS SUBSTANTIALLY CORRECT AND FURTHER AGREES:

1. Contractor License Class and bond are current, and the undersigned subcontractor agrees to maintain in current status all licenses and bonds as required by PACE;
2. That the work be performed in accordance with the standards set by PACE & funding source;
3. That if work is performed by the subcontractor is found to be unsatisfactory by PACE, or if contract relations between the subcontractor, homeowner or other parties are found to be unsatisfactory, PACE may remove the subcontractor from job assignment and/or terminate this contract agreement with such accompanying publicity as it deems necessary;
4. The subcontractor will abide by the Federal regulations pertaining to Equal Employment Opportunity;
5. That the work will be done in conformance with all building and appliance codes;
6. Upon award of BID/Subcontract, please submit a Certificate of Insurance and Workers Compensation Certificate be sent to PACE.

Subcontractor's Signature over Printed Name

\_\_\_\_\_ Date \_\_\_\_\_

**Attachment 2**

**ALL APPLICANTS**

**Contractor Information Regarding Debarment and Suspension**

**CONTRACTOR'S NAME:** \_\_\_\_\_

**Certification Regarding Debarment, Suspension, and Other Responsibility Matters**

**Primary Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98, Section 98.510, Participants' responsibilities. The regulations were published as Part VII of the May 26, 1988 Federal Register (pages 19160-19211).

**(Before Signing Certification, Read Attached Instruction)**

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
  - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - c. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
  - d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**NAME AND TITLE OF AUTHORIZED REPRESENTATIVE**

Name \_\_\_\_\_ Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

### Attachment 3

#### **ADDITIONAL INFORMATION – ALL APPLICANTS**

Contractors are encouraged to apply for all contracts for which they may qualify.  
Please complete the appropriate line items in Measures Index as it pertains to the specialty of interest.

<b>COMPANY NAME</b>	
Address:	
City:	Zip:
Phone (office):	Phone (cell:)
Fax:	e-mail:
Alternate Contact:	Phone:
Website:	
<b>CONTACT INFORMATION</b>	
Name / Position:	
Phone:	Fax:
e-mail:	
<b>BUSINESS INFORMATION</b>	
<b>OWNERSHIP STRUCTURE:</b>	
Self Proprietor <input type="checkbox"/>	Limited Partnership <input type="checkbox"/>
Private, Non-Profit(501-3) <input type="checkbox"/>	C or S Corporation <input type="checkbox"/>
Public <input type="checkbox"/>	Other <input type="checkbox"/>
Date Business Formed:	
Parent Company (if any):	
Affiliates (if any):	
Subsidiaries (if any):	
<b>STATE CONTRACTORS LICENSE(S) HELD</b>	
License #1	
License #2	
License #3	
License #4	
<b>OTHER LICENSES / CERTIFICATES HELD</b>	
1.	
2.	
3.	
4.	
<b>AGENCY BUSINESS DESCRIPTION</b>	







**Attachment 4 - MEASURE LIST**

**HVAC and Plumbing**

Items below are bids for HVAC (C20) and Plumbing Services (C36) to include repair/replacement of gas/electric appliances and associated plumbing as indicated. Please provide your fees by measure to include administration, labor, material cost and disposal. Permits and licensing fees shall be treated as separate measures billed at actual cost, unless otherwise noted.

(Please submit a spreadsheet showing all cost by measure).

Please Note:

We have listed the maximum allowable reimbursement rate for each measure as established by our funding source – California Department of Community Services and Development (CSD). These maximums are statewide, generic rates. They may not necessarily reflect the local market rate(s), which in many instances may be considerably lower. Bidders should, therefore, submit their best price and be aware that bids grossly in excess of the market rate (even if under the statewide maximum) will not be accepted.

ACTIVITY / MEASURES	Maximum Reimbursement Rate	Proposed Price (Bid)	Comments
<p><b>HVAC / PLUMBING LABOR RATE:</b></p> <p>Indicate labor rate / hour charged by your company for general HVAC and / or Plumbing work.</p>			
<p><b>PERMITS</b></p>			
<p><b>NOTE:</b></p> <p>Permit Costs should <u>not</u> to be included in bids. Permit costs should reflect the actual cost of the permit(s).</p>	Actual Costs		
<p><b>ELECTRICAL CONNECTION - APPLIANCES</b></p>			
<p><b><u>BEFORE INSTALLATION OF APLLIANCES (COOKING APPLIANCE, WALL AC) VERIFY ELECTRICAL CONNECTION:</u></b></p> <p>Electrical connection to replacement cooking appliance(s) and wall/window AC unit(s) must be verified with PACE staff <u>before installation</u>.</p> <p><b><u>COOKING APPLIANCES:</u></b></p> <p>POWER SOURCE:</p> <ul style="list-style-type: none"> <li>• The power source used for the cooking appliance shall be properly grounded.</li> <li>• Power chord for the replacement unit shall not be plugged into a receptacle that is not properly secured or has an electrical hazard</li> </ul> <p>ELECTRICAL SUPPLY CIRCUIT:</p> <ul style="list-style-type: none"> <li>• The circuit supplying power to the cooking appliance shall be verified to be in compliance with manufacturer's specifications including:             <ul style="list-style-type: none"> <li>- Correct voltage,</li> <li>- Safe conductors, and</li> </ul> </li> </ul>			

- Proper over current protection

RECEPTACLE:

- The receptacle shall be a properly grounded 3-prong type.
  - 3-prong adapters shall not be allowed.
- The receptacle shall be in a location that can be reached by the appliance power chord
  - Extension chords shall not be allowed.

GFCI OPTION:

- A GFCI - protected receptacle may be used instead of a grounded 3-prong receptacle; however in that case:
  - The location of the resetting must be easily accessible, and
  - Occupants shall be:
    - Advised of the possibility of nuisance tripping (and they must agree to that option), and
    - Instructed in the use and resetting of the GFCI circuit.
  - If a receptacle is not acceptable to the occupants, one shall not be installed.
  - An extension cord shall not be used.

AC WALL & WINDOW UNITS:

ELECTRICAL CIRCUIT:

- The electrical circuit shall have:
  - Proper over current protection.
  - Adequate current capacity available to avoid nuisance tripping of breaker / fuse by the air conditioner.

120 VOLTS OR LOWER:

- Unit shall be plugged into its own separate receptacle when required by the manufacturer.

208 VOLTS AND HIGER:

- Unit shall be plugged into its own separate receptacle outlet.

GROUNDING (Non-Grounded Receptacles):

- Units shall not: be connected to a non-grounded 2 or 3 prong receptacle..
- A non-grounded 2-prong receptacle may be replaced with a new 3-prong receptacle, if the new receptacle will be grounded.

ADAPTER:

- Non-Grounded 3-Prong adapters:
  - Shall not be used.
- A Grounded 3-Prong adapter may be used only when:
  - Not prohibited by manufacturer's instructions.
  - Adapter provides proper polarity and grounding to the appliance.
  - The adapter ground lug / wire is securely attached to a grounding source, such as a:
    - Grounded receptacle

- Grounded electrical box
- Alternate grounding conductor exists.

**EXTENSION CORD:**

- Use
  - One extension cord may be used with unit rated for 120 volts or less, if allowed by appliance manufacturer's instructions.
  - An extension cord shall not be used with a unit rated at 208 volts or greater.
- Extension cord shall be:
  - UL listed and in conformance with manufacturer's specifications.
  - A 3-conductor cord with 3-prong grounding plug.
  - Rated appropriately for the appliance.
  - The shortest feasible length and not in conflict with manufacturer's instructions.
- Cord Location
  - Appliance cord and extension cord shall not be draped over a countertop or furnishings in a manner which:
    - Allows access to children ( to reach and pull on them).
    - Creates a walking hazard (where people may trip).

**NOTE:**

The total Costs associated with providing / installing appliances and electrical grounding of receptacles must not exceed the funding source's maximum allowable reimbursement rate.

Contractors are, therefore, required to absorb the costs associated with grounding receptacles in cases when the total costs of installation and electrical grounding exceed the maximum allowable reimbursement rate.

**COOKING APPLIANCE**

**FREESTANDING GAS RANGE / COOKTOP - REPLACEMENT:**

Gas Range / Cook top Installation with gas flex / valve and discard of old unit. Permits not included.

**FREESTANDING GAS RANGE:**

- Must have electronic ignition (no standing pilots).
- Sealed or standard design burners.
- Unit with a standard oven.
- Range shall be compatible with the fuel used: natural gas or liquid petroleum (LP gas).
- CSA Certified, UL Listed, or equivalent.
- Compliance with ANSI Z21.1 (Household Cooking Gas Appliances).

**RANGE TYPE(S) NOT ALLOWED:**

- Self-cleaning oven

<p><b><u>GAS COOK TOP:</u></b></p> <ul style="list-style-type: none"> <li>• Electronic ignition required, unless it is unfeasible to provide a 110-VAC circuit to the cook top location.</li> </ul> <p><b><u>VALVES AND FLEXIBLE CONNECTORS:</u></b></p> <ul style="list-style-type: none"> <li>• Gas shutoff valve and adaptors shall be new brass and CSA / AGA approved.</li> <li>• Flexible gas connector shall be: <ul style="list-style-type: none"> <li>- New stainless steel (coated or uncoated) up to 6' in length.</li> <li>- CSA Design Certified (per ANSI Z21.24/CSA 6.10), or AGA approved.</li> </ul> </li> </ul>			
<p>20" Gas Range or Cook Top Replacement w / tip over anchor and Gas flex (Includes Disposal of old unit)</p>	<p>\$934.00</p>		
<p>24" Gas Range or Cook Top <b>Replacement</b> w / tip over anchor and Gas flex (Includes Disposal of old unit)</p>	<p>\$934.00</p>		
<p>30" Gas Range or Cook Top Replacement w / tip over anchor and Gas flex (Includes Disposal of old unit)</p>	<p>\$934.00</p>		
<p><b><u>FREESTANDING GAS RANGE / COOKTOP - REPAIR:</u></b></p> <p>Gas Range or Cook Top Repair not to exceed indicated price quote (Limit to 50% of CSD's replacement cost ceiling). Estimates must be provided to PACE for review in cases where repairs may exceed the indicated quote.</p>	<p>\$467.00</p>		
<p><b>Possible repair activities:</b></p>			
<p>Service (Cleaning) to include: Adjust pilot, service burner to control (CO) output</p>			
<p>Replace gas flex / valve as needed due to gas leak:</p>			
<p><b><u>FREESTANDING ELECTRIC RANGE / COOKTOP - REPAIR:</u></b></p> <p>Electric Range or Cook top Repair not to exceed indicated price quote (Limit to 50% of CSD's replacement cost ceiling). Estimates must be provided to PACE for review in cases where repairs may exceed the indicated quote.</p>	<p>\$467.00</p>		
<p>Service (Cleaning):</p>			
<p><b><u>KITCHEN EXHAUST FAN REPLACEMENT / REPAIR:</u></b></p> <p><b><u>REPLACEMENT:</u></b></p> <p>ALL EXHAUST FANS / HOODS:</p> <ul style="list-style-type: none"> <li>• Listed and labeled for kitchen ventilation by a recognized laboratory, such as UL, ETL, or CSA.</li> <li>• 100 CFM minimum, or as required per sizing calculations.</li> <li>• Rated noise level at 3.0 sones or less, unless their maximum rated airflow exceeds 40 CFM., in accordance with ASHARE 62.2.</li> </ul> <p>RANGE HOODS SHALL:</p> <ul style="list-style-type: none"> <li>• Be as wide as the cook top and constructed of metal at least 0.0122 inch thick.</li> <li>• Have a light and multi - or variable fan.</li> </ul>	<p>\$350.00</p>		

<p><b>ALL DUCTED UNITS:</b></p> <ul style="list-style-type: none"> <li>• Wall and ceiling-mount fans shall be equipped with a removable interior grille.</li> <li>• Exhaust ducts shall be of metal and have smooth interior surfaces.</li> <li>• Vertical ducts shall include a roof flashing system and roof cap which provide a watertight seal.</li> <li>• Exterior wall components and attachment to the siding shall be durable and waterproof.</li> </ul> <p><b>MOBILE HOME SIDEWALL EXHAUST FANS:</b></p> <ul style="list-style-type: none"> <li>• Unit shall be designed to fit wall thickness at mounting location.</li> </ul> <p><b>BACKDRAFT DAMPER:</b></p> <ul style="list-style-type: none"> <li>• All exhaust systems shall be equipped with a back draft damper.</li> <li>• Damper shall be located in the fan housing, in the vent duct, or in the wall or roof termination assembly.</li> </ul> <p><b>REPAIR:</b></p> <p><b>MOTOR REPAIR AND OTHER COMPONENT REPAIRS:</b></p> <ul style="list-style-type: none"> <li>• Motor shall be UL listed or a UL Recognized component.</li> <li>• Motor and components shall be replaced with a manufacturer's replacement motor or, if necessary</li> </ul>			
<b>SPACE HEATING SOURCE REPLACEMENT</b>			
<p><b>All Furnace replacements to include the following:</b></p> <ul style="list-style-type: none"> <li>• Install rear discharge kit if required.</li> <li>• Remove and dispose existing heater.</li> <li>• Install new venting system to new heater as required by local municipality. (except ion: suspected asbestos vent pipe)</li> <li>• <u>Install additional venting beyond what is normally encountered during furnace replacement. (See Note below).</u></li> <li>• Install new gas valve and connectors per code.</li> <li>• Patch damage caused to wall by removal of heater.</li> <li>• <u>Additional Wall Repair beyond what is normally required during furnace replacement. (See Note below).</u></li> <li>• Install gas line (usually up to 10ft.)</li> <li>• Install additional gas line (beyond 10 ft.) beyond what is normally encountered during furnace replacement. (See Note below).</li> <li>• <u>Free Standing Kit when required. (See Note below).</u></li> <li>• Disposal and inspections.</li> </ul> <p><b>NOTE:</b> The total Costs associated with providing/installing appliances including additional work, on occasion (beyond what is normally performed), listed and underlined above must <u>not</u> exceed the contractor's Bid/quote.</p>			

Contractors are, therefore, required to either absorb or include in their quote / bid the costs of this additional work.  Must be verified by a HERS rater when applicable. ( HERS verification costs are not a part of this quote and are listed as a separate item below).			
<b><u>WALL, FLOOR AND FREESTANDING FURNACES:</u></b>  (14,000-22,000-25,000-35,000,50,000BTU)  <ul style="list-style-type: none"> <li>Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database for certified appliances, an equivalent federal directory, or an approved trade association directory.</li> <li>Must be UL listed and GAMA certified.</li> <li>Closed Combustion and listed for use in a Mobile Home when installed in a mobile home.</li> <li>The most efficient models feasible to install, but no lower in efficiency than specified in table below.</li> </ul>			
<b>Minimum Efficiencies For Replacement Wall &amp; Floor Furnaces</b>			
<b>Furnace Type</b>	<b>Btu/Hr. Output Capacity</b>		<b>Minimum AFUE (%)</b>
WALL with Fan	Up to 42,000		75%
	Over 42,000		76%
WALL without Fan	15,001 – 19,000		65%
	19,000 – 27,000		66%
	27,000 – 46,000		67%
	over 46,000		67%
FLOOR	Up to 37,000		57%
	<b>Over 37,000</b>		58%
Free - Standing Room Heaters	Up to 20,000		61%
	20,000 - 27,000		66%
	27,000 - 46,000		67%
	Over 46,000		68%
<b>INTERIOR WALL FURNACE (single wall gravity):</b> (Most Common - Houses)	\$3,483.00		
<b>EXTERIOR WALL DIRECT VENT FURNACE:</b> (Most Common – Apts.)	\$3,483.00		
<b>DIRECT FLOW WALL FURNACE:</b>	\$3,483.00		
<b>FLOOR FURNACE:</b> (case by case – additional cost with PACE approval)	\$3,483.00		
<b><u>CENTRAL FORCED AIR - FURNACES:</u></b>  <b><u>CONVENTIONAL HOME FURNACE:</u></b>  <ul style="list-style-type: none"> <li>All FAU's shall be in conformance with the CBC and CMC, and Title 24 Building Efficiency Standards</li> </ul>			

24 efficiency standards (Residential Compliance Manual).

- Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database of certified appliances, an equivalent federal directory, or an approved trade association directory.

- All units & components shall be UL listed and / or have one of the following certifications: CSA, AGA or GAMA.
- Units installed in a Mobile Home shall be listed for use in a Mobile Home, and inside the living space shall be closed combustion.

**AIR FILTERS:**

- Included with all new furnace replacements.
- MERV 6 filter shall be selected for new FAUs in accordance with manufacturer's specifications and the section for "Air Filters" below:

**GAS PIPES AND VALVES:**

- Risers, flexible connectors, fittings, and valves shall be in conformance with manufacturer's specifications and the managing building authority (HCD or the local jurisdiction).
- Components shall be new (re-use of existing materials shall not be allowed).
- Gas Valves: UL Listed and AGA or CSA certified.
- Gas Flexible Connectors: IAPMO Listed epoxy - coated or stainless steel units.
- Pilot tubing shall be aluminum (copper not allowed).
- Fuel Gas Piping:
  - Shall be selected, sized and installed per 2013 CMC, Chapter 13.
  - Copper gas lines not allowed.

**VENT PIPES:**

**METAL VENT PIPES:**

- All metal vent pipes, vent connectors and components shall be UL listed.
- Gas vent pipe shall be type B or B-vent.

**NON METALLIC COMBUSTION AIR AND VENT PIPES:**

- Pipes and fittings shall conform to ASTM D 1785 and D 2665.
- Pipe cement and primer shall conform to ASTM D 2564.

**SPLIT SYSTEMS:**

Furnace: Minimum AFUE rating:

- Outdoor Units: 81%
- Indoor Units: 80%
- Mobile Home Unit: 80%
  - UL Listed and certified by AGA and AHRI.

Air Conditioner:

- Minimum SEER of 14.0



(SEER 14 when mandated by local bldg. code)			
<b>REPLACE FURNACE:</b> (forced air furnace unit of split system - Does not include AC). Does not include Duct Work or electrical work outside the scope of standard electrical hook up. . Typical sizes range: 2 Ton – 4 Ton FAU. You may provide one maximum quote for all sizes or a separate quote for each size listed below.	\$4,591.00		
2 Ton	\$4,591.00		
3 Ton	\$4,591.00		
4 Ton	\$4,591.00		
5 Ton	\$4,591.00		
<b>HORIZONTAL UNIT (FAU):</b>	\$4,591.00		
2 Ton	\$4,591.00		
3 Ton	\$4,591.00		
4 Ton	\$4,591.00		
5 Ton	\$4,591.00		
<b>MOBILE HOME FURNACE:</b> MATERIALS INSTALLED <u>WITHIN</u> A MANUFACTURED HOME: <ul style="list-style-type: none"> <li>• Shall be in compliance with these specifications for conventional homes (above), HCD regulations and HUD Mobile Home Codes (MHCSS).</li> </ul> MATERIALS INSTALLED <u>WITHIN</u> A MANUFACTURED HOME: <ul style="list-style-type: none"> <li>• Shall be in compliance with HCD regulations or, as applicable, requirements of the local building department.</li> </ul>	\$4,591.00		
2 Ton	\$4,591.00		
3 Ton	\$4,591.00		
4 Ton	\$4,591.00		
5 Ton	\$4,591.00		
<b>PACKAGE UNITS (DUAL PACKS):</b>	\$6,728.00		
<ul style="list-style-type: none"> <li>• Furnace: Minimum AFUE rating: <u>81%</u></li> <li>• Air Conditioner: Minimum <u>SEER of 14.0</u> (SEER 14 when mandated by local building code)</li> </ul>			
2 Ton Package Unit (Dual Pack) - 13 SEER	\$6,728.00		
2 Ton Package Unit (Dual Pack) - 14 SEER	\$6,728.00		
3 Ton Package Unit (Dual Pack) - 13 SEER	\$6,728.00		

3 Ton Package Unit (Dual Pack) - 14 SEER	\$6,728.00		
4 Ton Package Unit (Dual Pack) - 13 SEER	\$6,728.00		
4 Ton Package Unit (Dual Pack) - 14 SEER	\$6,728.00		
5 Ton Package Unit (Dual Pack) - 13 SEER	\$6,728.00		
5 Ton Package Unit (Dual Pack) - 14 SEER	\$6,728.00		
<b>WOOD FUELED APPLIANCE:</b>	\$4,749.00		
<b>OTHER TYPE NOT LISTED:</b>	\$4,749.00		
<b>HEAT PUMP:</b> See Air Conditioning Section below:			
<b>HERS RATER COST:</b> See Air Conditioning Section below:			
<b>Additional work to exceed the given amount to be approved by Crew / Field Supervisor(s) or Program Manager.</b>			
<b>SPACE HEATING SOURCE REPAIRS</b>			
Repair not to exceed indicated price quote. Estimates must be provided to PACE for review in cases where basic repairs may exceed the indicated quote.			
<b>Possible Basic Service / Repair activities:</b>			
Diagnose and make necessary adjustment to reduce CO output			
Replace fire door (direct vent furnace) cover			
Rebuild pilot includes tubing and thermocouple			
Replace broken gas flex and gas shut off valve			
Inspect, clear or minor repair of vent; replace up to 18 inches of venting / vent cap.			
Replacement of magnetic gas valve, install programmable thermostat, wire and raceway.( thermostat, wire and raceway provided by PACE )			
<b>Repairs not to exceed:</b> (Limit to 50% of CSD's replacement cost ceiling)			
Interior Wall Furnace	\$1,742.00		
Exterior Wall Direct Vent Furnace	\$1,742.00		
<b><u>Estimates must be provided to PACE for review in all cases other than basic service / repair to the systems listed below:</u></b>			
Floor Furnace:	\$1,742.00		
Floor Furnace: Mobile Home Furnace:	\$1,742.00		
Other Types Not Listed:	\$2,375.00		
Package Units (Dual Packs): Wood Fueled Appliance:	\$3,364.00		

WATER HEATING			
<p><b><u>GAS WATER HEATER - REPLACEMENT:</u></b></p> <p><b>Gas Water Heater replacement to include the following:</b></p> <ul style="list-style-type: none"> <li>• Pressure relief valve.</li> <li>• EQ straps.</li> <li>• Gas flex.</li> <li>• Discard of old unit.</li> <li>• Short vent from unit to ceiling</li> <li>• <u>Additional vent Replacement from ceiling through roof when needed. (See Note below).</u></li> <li>• <u>Provide and install an enclose for water heater when needed. (See Note below).</u></li> <li>• <u>Provide and install a pad for water heater when needed. (See Note below).</u></li> <li>• Install gas line (usually up to 10ft.)</li> <li>• <u>Install additional gas line (beyond 10 ft.) beyond what is normally encountered during water heater replacement. (See Note below).</u></li> </ul> <p><b><u>NOTE:</u></b></p> <p>The total Costs associated with providing / installing appliances including additional work, on occasion (beyond what is normally performed), listed and underlined above must <u>not</u> exceed the contractor's Bid / quote.</p> <p>Contractors are, therefore, required to either absorb or include in their quote / bid the costs of this additional work.</p> <p><b><u>ALL GAS WATER HEATERS:</u></b></p> <ul style="list-style-type: none"> <li>• Natural or LP gas - fueled storage type: <ul style="list-style-type: none"> <li>- Replacement water heater will be direct vented or power vented and <u>Energy Star Qualified.</u></li> </ul> </li> <li>• Open Combustion: <ul style="list-style-type: none"> <li>- Flammable Vapor Ignition Resistant (FVIR) combustion chamber.</li> <li>- Low NOX burner system, when required by local code.</li> </ul> </li> <li>• Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database of certified appliances.</li> <li>• Listed and labeled in conformance with local code.</li> <li>• Manufactured to ANSI Z21.10.1</li> <li>• Minimum of R-12 internal insulation.</li> <li>• Equipment will be functional at high efficiency under all load conditions.</li> </ul> <p><b><u>GAS PIPES AND VALVES:</u></b></p> <ul style="list-style-type: none"> <li>• All valves and flexible connectors shall be new.</li> <li>• Gas valves shall be listed (UL or equivalent) and AGA or CSA certified.</li> <li>• Flexible connectors shall be listed (e.g. by IAPMO), epoxy coated or stainless steel units.</li> <li>• Fuel-gas piping shall comply with 2013 CMC.</li> <li>• Copper gas lines and butt-soldered joints <u>not</u> allowed.</li> </ul>			

<b>Minimum EF for Storage Gas Water Heaters</b>				
<b>Tank Volume (Gallons)</b>	<b>Minimum Energy Factor (EF)</b>			
30	0.64	\$1,940.00		
40	0.63	\$1,940.00		
50	0.61	\$1,940.00		
<b>Note:</b> Tanks with lower energy factors would have to be externally wrapped with a minimum R-12 insulation.				
<b>GAS WATER HEATER REPAIR:</b> Repair not to exceed indicated price quote. Estimates must be provided to PACE for review in cases where repairs may exceed the indicated quote.		\$970.00		
<b>Possible repair activities:</b>				
Replacement of thermocouple and/or T&P valve				
Light and Test				
Repair short vent as necessary				
Replace broken gas flex and gas shut-off valve				
Gas Line Installation(price / per linear foot)				
210 Watts Valve(if necessary)				
<b>Total of all of the above repair activities not to exceed:</b> (Limit to 50% of CSD's replacement cost ceiling)				
<b>ELECTRIC WATER HEATER REPLACEMENT:</b>  <b>Electric Water Heater replacement to include the following:</b> <ul style="list-style-type: none"> <li>• Pressure relief valve</li> <li>• EQ straps.</li> <li>• Provide and install an enclose for water heater when needed.</li> <li>• Provide and install a pad for water heater when needed.</li> </ul> <b>ALL ELECTRIC WATER HEATERS:</b> <ul style="list-style-type: none"> <li>• Comply with ASHRE 90.1b and UL 174</li> <li>• Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database of certified appliances.</li> <li>• Minimum <u>R-16</u> Internal Insulation.</li> <li>• Listed and labeled in conformance to local code.</li> <li>• Minimum Energy Factor (EF) shall be in compliance with Title 24 energy efficiency requirements, per the table below.</li> </ul> <b>VALVES &amp; PIPING:</b> <ul style="list-style-type: none"> <li>• T &amp; P Valve shall be listed and manufactured to ANSI Z21.22</li> <li>• T &amp; Valve shall meet sizing / pressure requirements of the water heater listing.</li> </ul> <b>WATER PIPING:</b> Installed water lines and valves shall be lead-free.		\$1,940.00		

Minimum EF for Storage Electric Water Heaters				
<b>Tank Volume (Gallons)</b>				
30	<b>Minimum Energy Factor (EF)</b>			
40	0.96	\$1,940.00		
50	0.96	\$1,940.00		
<b>Note:</b> Tanks with lower energy factors would have to be externally wrapped with a minimum R-12 insulation.		0.96	\$1,940.00	
<b>MOBILE HOME WATER HEATER REPLACEMENT:</b>				
<ul style="list-style-type: none"> <li>Must be in compliance with requirements of the California Dept. of Housing and Community Development (HCD).</li> </ul> Water heater is not required to be listed / labeled for installation in a mobile home, unless required by HCD.				
<ul style="list-style-type: none"> <li><b>AIR CONDITIONING</b></li> </ul>				
<b>AIR CONDITIONER AND HEAT PUMPS - CENTRAL SYSTEM:</b>				
<b>AIR CONDITIONER REPLACEMENT - ALL UNITS:</b>				
Replace A.C. component of forced air unit split system. Includes Condenser + Coil & Plenum and all other required material & labor.				
<b>AIR CONDITIONER REPLACEMENT - ALL UNITS:</b>				
Replace A.C. component of forced air unit split system. Include Condenser + Coil & Plenum and all other required material & labor. Does not include Duct Work or electrical work outside the scope of standard electrical hook up. No panel change outs. Typical sizes range: 2 Ton – 4 Ton FAU. You may provide one maximum quote for all sizes or a separate quote for each size listed below.				
<ul style="list-style-type: none"> <li>All materials shall be in conformance with the California Building Code (CBC) and California Mechanical Code (CMC)</li> <li>Units shall be in conformance with the California Building Code (CBC) and California Mechanical Code (CMC).</li> <li>Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database of certified appliances, an equivalent federal directory, or an approved trade association directory.</li> <li>Replacement air conditioning system shall be:               <ul style="list-style-type: none"> <li>In Compliance with Title 24 efficiency standards.</li> <li>Rated by Air-Conditioning, Heating, and Refrigeration Institute (AHRI).</li> </ul> </li> <li>Must be verified by a HERS rater when applicable. (HERS verification costs are not a part of this quote and are listed as a separate item below).</li> <li>Unit must have minimum <b>SEER of 13.0</b> with a thermostatic expansion valve (TXV) (SEER <u>14</u> when mandated by local bldg. code)               <ul style="list-style-type: none"> <li>The SEER shall be determined by the coil and condenser match as listed in the current AHRI directory.</li> </ul> </li> </ul>				
<b>GAS PIPES AND VALVES:</b>				
<ul style="list-style-type: none"> <li>Gas valves shall be UL listed and AGA or CSA certified.</li> <li>Gas flexible connectors shall be listed epoxy-coated or stainless steel units.</li> <li>Pilot tubing shall be aluminum (copper not allowed).</li> <li>Fuel -gas piping:               <ul style="list-style-type: none"> <li>Shall be selected, sized and installed per 2013 CMC, Chapter 13.</li> <li>Copper gas lines not allowed.</li> </ul> </li> </ul>				
<b>VENT PIPES:</b>				
<b>METAL VENT PIPES:</b>				

- All metal vent pipes, vent connectors and components shall be UL listed.
- Gas vent pipe shall be type B or B-vent.

**NON - METALLIC COMBUSTION AIR AND VENTS:**

- Pipes and fittings shall conform to ASTM D 1785 and D 2665.
- Pipe cement and primer shall conform to ASTM D 2564.

**AIR FILTER - CENTRAL AIR CONDITIONING:**

**FOR NEW FORCED AIR SYSTEMS:**

- A MERV 6 or better when installed in a new / replacement forced air unit or filter grille.
- Shall be UL listed Class 2 filter material.
- Shall conform to AHRI 680 or AHRI 681 (SI), and UL-900.

**SUPPORT RODS AND FILTER SUPPORTS FOR UNFRAMED AIR FILTERS:**

- Manufacturer's instructions shall be followed.

When not in conflict with appliance filter manufacturer's instructions, steel rods (galvanized recommended) shall be internally installed, as needed, to stiffen filters that are 20" or longer in either direction.

2 Ton - 13 SEER	\$3,483.00		
2 Ton - 14 SEER	\$3,483.00		
3 Ton - 13 SEER	\$3,483.00		
3 Ton - 14 SEER	\$3,483.00		
4 Ton - 13 SEER	\$3,483.00		
4 Ton - 14 SEER	\$3,483.00		
5 Ton - 13 SEER	\$3,483.00		
5 Ton - 14 SEER	\$3,483.00		
A/C Replacement, per dwelling(Central Unit)	\$3,483.00		
<b><u>HEAT PUMPS:</u></b> PACKAGE UNITS: <ul style="list-style-type: none"> <li>• Minimum HSPF of 8</li> <li>• Minimum SEER of 13</li> </ul> SPLIT SYSTEM (including mini -split systems): <ul style="list-style-type: none"> <li>• Minimum HSPF of 8.2</li> <li>• Minimum SEER of 13</li> <li>• Note: The SEER and HSPF shall be determined by the coil and condenser match as listed in the current AHRI Directory.</li> </ul>	Waiver needed; case-by-case basic		
<b>HEAT PUMP - PACKAGE UNIT:</b> (Include quotes for different sizes, if necessary)	Waiver needed; case-by-case basis		
<b>HEAT PUMP - SPLIT SYSTEM (Including mini-split systems)</b> (Include quotes for different sizes, if necessary)	Waiver needed; case-by-case basis		
<b>HERS Rater Cost</b>	Actual cost		
<b>WALL &amp; WINDOW UNITS:</b>			

**Estimates must be provided to PACE for review before commencement of work in all cases involving window / wall AC replacement.**

**ALL UNITS:**

- Unit shall be UL listed or equivalent) and equipped with:
  - Minimum two-speed fan.
  - Adjustable thermostat with minimum of six positions.
  - Removable filter.
  - Air directional control, minimum four-way.

**UNIT SIZING:**

<ul style="list-style-type: none"> <li>Installed appliances must conform to CEC standards for efficiency, as verified by inclusion in the CEC's database of certified appliances, an equivalent federal directory, or an approved trade association directory.</li> <li>Shall comply with manufacturer's recommendations for sizing and the guidelines in the table in the Field Guide measure - specific policy.</li> </ul>			
<b>WALL UNITS (CONVENTIONAL HOMES ONLY):</b> <ul style="list-style-type: none"> <li>Must be equipped with thru-the-wall chassis (sleeve).</li> </ul>			
A/C Multi-Story 110V Wall Unit Replacement	\$1,575.00		
A/C Multi-Story 110V Window Unit Replacement	\$1,575.00		
A/C Single-Story 110V Wall Unit Replacement	\$1,575.00		
A/C Single-Story 110V Window Unit Replacement	\$1,575.00		
A/C Single-Story 220V Wall Unit Replacement	\$1,575.00		
A/C Single-Story 220V Window Unit Replacement	\$1,575.00		
A/C Multi – Story 220V Wall Unit Replacement	\$1,575.00		
A/C Multi-Story 220V Window Unit Replacement	\$1,575.00		
<b>AIR CONDITIONING REPAIR:</b> Repair not to exceed indicated price quote. <u>Estimates must be provided to PACE for review before commencement of work in all cases involving AC repair.</u>			
<b>(Limit to 50% of CSD's replacement cost ceiling).</b>			
Window / Wall Unit	\$788.00		
Forced Air Unit, Split System Repair or Maintenance	\$1,742.00		
<b>OTHER</b>			
<b>TRIP / MINIMUM SERVICE CHARGE:</b> (This charge applies only when contractor is called to a worksite to solely address an issue such as: Capping -Off a Gas Line, Tightening a Flex Line, and where no other work is required)  <b>NOTE:</b> This fee may not be applied multiple times per any given visit to a multi-family building, where each individual unit is not treated as a separate location for purposes of applying this fee.			
<b>THERMOSTAT REPLACEMENT:</b> Include price of labor & all materials including raceway in quotes below. <b>MANUAL THERMOSTAT:</b> <ul style="list-style-type: none"> <li>Alternative when client refuses programmable thermostat.</li> <li>Digital with built in anti-short-cycle feature.</li> <li>Conforms with HVAC manufacturer's instructions.</li> <li>Compatible with HVAC equipment it will control.</li> <li>Includes a positive on / off switch.</li> </ul>			
	\$65.00		
<b>PROGRAMMABLE THERMOSTAT:</b> <ul style="list-style-type: none"> <li>ENERGY STAR qualified.</li> <li>System powered, not battery powered, on 24 volt system.</li> <li>Digital with anti-short-cycle feature.</li> </ul>			
	\$157.00		

<ul style="list-style-type: none"> <li>• Minimum setback capability of at least 10 deg. (F)</li> <li>• At least 2 setback periods per 24 hour day, with change cycle increments being no greater than 30 minutes.</li> <li>• Programmable for both weekdays and weekends.</li> <li>• Manual override and standard alkaline battery backup or other program saving backup system. <ul style="list-style-type: none"> <li>- Long life lithium battery, when compatible.</li> </ul> </li> <li>• Positive on / off switch that is easily accessible.</li> <li>• Compatible with the HVAC equipment it will control.</li> </ul>			
<p><b><u>FOR ALL DUCT / REPAIR REPLACEMENT BELOW:</u></b>  <b><u>Estimates must be provided to PACE for review before commencement of work.</u></b></p>			
<p><b><u>DUCT RUNS - REPLACEMENT (EACH):</u></b></p> <ul style="list-style-type: none"> <li>• Indicate price / Duct Run</li> <li>• For details / specifications see Appendix A: "Duct System Repair and Sealing"</li> </ul>	Total Duct Repair / Replacement not to exceed: \$2,200 / dwelling.		
<p><b><u>DUCT REGISTER - REPLACEMENT (EACH):</u></b></p> <ul style="list-style-type: none"> <li>• Indicate price / Register</li> </ul> <p>For details / specifications see Appendix A: "Duct System Repair and Sealing"</p>	Total Duct Repair / Replacement not to exceed: \$2,200 / dwelling.		
<p><b><u>DUCT / REGISTER - REPAIR:</u></b>  (Sealing, Splicing, Re-Attaching Ducts, Strapping/Securing Ducts.</p> <ul style="list-style-type: none"> <li>• Indicate hourly rate or price / Duct / Register.</li> </ul> <p>For details / specifications see Appendix A: "Duct System Repair and Sealing"</p>	Total Duct Repair / Replacement not to exceed: \$2,200 / dwelling.		
<p><b><u>AIR FILTER - EXISTING FORCED AIR SYSTEM:</u></b>  <b><u>MERV 6 TYPE:</u></b></p> <ul style="list-style-type: none"> <li>• When specifically allowed by manufacturer of the existing system.</li> <li>• When a MERV 6 filter is not specifically allowed by the manufacturer's specifications for existing forced air appliances, a washable, "hog hair", foam, or other specialty - type filter (listed below) shall be installed in existing forced air systems (to prevent excessive static pressure that may cause the appliance to fail).</li> </ul> <p><b><u>"HOG HAIR" TYPE AND OTHER BONDED FILTER:</u></b></p> <ul style="list-style-type: none"> <li>• 1" thickness shall be used in central HVAC systems.</li> <li>• 1/2" thickness shall be used in window / wall air conditioners.</li> </ul> <p><b><u>FOAM FILTER:</u></b></p> <ul style="list-style-type: none"> <li>• 1/4" single layer foam, 20 to 30 pores per inch (ppi).</li> <li>• Foam shall be installed only when bonded fiber is not feasible or prohibited by the appliance manufacturer.</li> </ul> <p><b><u>OTHER MATERIALS:</u></b></p> <ul style="list-style-type: none"> <li>• "Sock" type foam and other specialty materials shall only be installed where specified by appliance manufacturer.</li> </ul> <p><b><u>SUPPORT RODS AND FILTER SUPPORTS FOR UNFRAMED AIR FILTERS:</u></b></p> <ul style="list-style-type: none"> <li>• Manufacturer's instructions shall be followed.</li> </ul>	\$100.00		



<ul style="list-style-type: none"> <li>When not in conflict with appliance filter manufacturer's instructions, steel rods (galvanized recommended) shall be internally installed, as needed, to stiffen filters that are 20" or longer in either direction.</li> </ul>			
<p><b>HIGH EFFICIENCY TOILET:</b> Provide and Install high efficiency toilet and discard old unit.</p> <p>ALL TOILETS:</p> <ul style="list-style-type: none"> <li>Watersense labeled High- Efficiency Toilet (HET).</li> <li>Listed MaP Premium Toilet. <ul style="list-style-type: none"> <li>- Listing available at <a href="http://www.map-testing.com/content/info/menu/map-premium.html">http://www.map-testing.com/content/info/menu/map-premium.html</a>.</li> <li>-Some toilets listed may not meet all of our material standards.</li> </ul> </li> <li>Gallons per flush (gpf) <ul style="list-style-type: none"> <li>- Full flush of 1.28gpf or less, OR</li> <li>- Dual - Flush toilet rated with: <ul style="list-style-type: none"> <li>• Full flush of 1.28 gpf (gallons per flush) or less, AND</li> <li>• Reduced flush of 0.8 gpf or less.</li> </ul> </li> </ul> </li> <li>Other Toilet Requirements <ul style="list-style-type: none"> <li>- Footprint: 20" x 10" minimum</li> <li>- MaP rating: <math>\geq</math> 600 grams</li> <li>- Water spot surface area: 8" x 6" minimum</li> <li>- Trapway: Fully glazed, 2" minimum</li> <li>- Bowl Shape: Elongated or round, per availability, customer preference, and location dimensions and clearances.</li> </ul> </li> <li>Bowl Height (excluding seat): <ul style="list-style-type: none"> <li>• Selected in accordance with client's physical needs and wishes.</li> <li>• 15" minimum for standard toilet</li> <li>• 16" minimum for elevated height (ADA compliant)</li> </ul> </li> </ul> <p>ACCESSORIES:</p> <ul style="list-style-type: none"> <li>Water shutoff Valve (Angle Stop) and Supply Line <ul style="list-style-type: none"> <li>- Water Supply Line: braided hose with brass fittings</li> <li>Water Shutoff Valve: conformance with IAPMO and CPC requirements.</li> </ul> </li> <li>Wax Ring and Flange <ul style="list-style-type: none"> <li>- Good quality thick or reinforced wax, with polyethylene flange.</li> <li>- A flange not required on second ring placed on top of additional thickness.</li> <li>- Compliance with Federal Specifications TT-P-1536A</li> </ul> </li> <li>Replacement Toilet Anchor Bolts ("johnny bolts"), Washers, Nuts <ul style="list-style-type: none"> <li>- Brass Bolts: 2-1/4" length by 5/16" diameter minimum</li> <li>- Captive washer included, to secure flange bolt in upright position</li> <li>- Brass open-acorn nuts</li> <li>- Corrosion-resistant washers (e.g. stainless steel)</li> </ul> </li> <li>Toilet Bowl Caps: plastic or ceramic, color-matched to toilet</li> </ul>	<p>\$325.00</p>		

<ul style="list-style-type: none"> <li>• Replacement Plastic Toilet Flanges, and Toilet Flange Extensions and spacers <ul style="list-style-type: none"> <li>- Compliance with ASME A112.4.3</li> </ul> </li> <li>• Toilet Shims <ul style="list-style-type: none"> <li>- White plastic or other waterproof material for use with toilets</li> <li>- Snap-off or easy to trim with sharp knife</li> </ul> </li> </ul>			
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**NOTE:**

**Additional work to exceed the given amount to be approved by project manager (PACE).**

I certify under penalty of perjury that the information on this application is true and correct. I also declare that I have the authority to submit this BID, which is valid for \_\_\_\_\_ days / \_\_\_\_\_ month (s) / \_\_\_\_\_ year (s). (Choose time period & enter term).

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Title**

## Attachment 5 Electrical Services

Items below are bids for Electrical Services (C10), to include repair/replacement of gas/electric appliances as indicated. Please provide your fees / bids by measure to include administration, labor, material cost and disposal. Permits and licensing fees shall be treated as separate measures billed at actual cost, unless otherwise noted. (Please submit a spreadsheet showing all cost by measure).

**Please Note:**

We have listed the maximum allowable reimbursement rate for each measure as established by our funding source – California Department of Community Services and Development (CSD). These maximums are statewide, generic rates. They may not necessarily reflect the local market rate(s), which in many instances may be considerably lower. Bidders should, therefore, submit their best price and be aware that bids grossly in excess of the local market rate (even if under the posted statewide maximum) will not be accepted.

ACTIVITY/MEASURES	Statewide Maximum Rate	Proposed Price (Bid)	Comments
<p><b><u>FOR ALL ELECTRICAL WORK BELOW:</u></b></p> <p><b><u>Estimates must be provided to PACE for review before commencement of work.</u></b></p>			
<p><b><u>LABOR RATE - ELECTRICAL WORK:</u></b> Indicate labor rate / hour charged by your company for general Electrical work.</p>			
<p><b><u>PERMITS:</u></b></p> <p><b><u>NOTE:</u></b> Permit Costs should <u>not</u> to be included in bids. Permit costs should reflect the actual cost of the permit(s).</p>	Actual Costs		
<p><b><u>GROUNDING INDOOR ELECTRICAL RECEPTACLE:</u></b></p> <ul style="list-style-type: none"> <li>• Replace a non-grounded receptacle with a new properly grounded 3-prong receptacle.</li> <li>• The new 3-prong receptacle shall be properly grounded in conformance with the California Electrical Code (CEC), local code, and CSD WIS Appendix D (Grounding Guidelines).</li> <li>• Details/Specifications are contained in "Grounding Guidelines" and will be provided upon selection/award of work.</li> </ul>			
<p><b><u>GFCI - RECEPTACLE:</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>(For Plug-in appliance except refrigerator).</u></b></li> <li>• Install a GFCI unit, rather than a ground wire, to provide electrical protection for an ungrounded receptacle or switch, in a home with a 2-wire grounding system.</li> <li>• This method may be used to provide power to</li> </ul>			

<p>appliances other than refrigerators when installation of a retrofit ground wire is not an option.</p> <p>The GFCI unit receptacle / switch shall be in conformance with the California Electrical Code (CEC), local code, and CSD WIS Grounding Guidelines, which will be provided upon selection/award of work.</p>			
<p><b><u>OUTDOOR ELECTRICAL CONDUIT:</u></b></p> <ul style="list-style-type: none"> <li>• Provide and install outdoor electrical conduit (indicate price per / linear ft.)</li> <li>• The new electrical conduit shall be installed in conformance with the California Electrical Code (CEC) an local code.</li> </ul>			
<p><b><u>GROUNDING OUTDOOR ELECTRICAL RECEPTACLE:</u></b></p> <ul style="list-style-type: none"> <li>• Provide and install grounded outdoor electrical receptacle.</li> <li>• The new 3-prong receptacle shall be properly grounded in conformance with the California Electrical Code (CEC), local code, and CSD WIS Grounding Guidelines.</li> <li>• Details/Specifications are contained in "Grounding Guidelines" and will be provided upon selection/award of work.</li> </ul>			
<p><b><u>120V / 20 Amp Circuit:</u></b></p> <ul style="list-style-type: none"> <li>• Add 120V / 20 Amp circuit without removing / replacing entire electrical box when possible.</li> <li>• The new electrical circuit shall be installed in conformance with the California Electrical Code (CEC) an local code.</li> </ul>			
<p><b><u>Troubleshooting - Light Fixtures:</u></b></p> <ul style="list-style-type: none"> <li>• Troubleshooting electrical problems relating to CFL hard wire lamps/fixtures.</li> </ul>			
<p><b><u>MECHANICAL VENTILATION:</u></b></p> <ul style="list-style-type: none"> <li>• Provide and install fan, timer, switch and electrical conduit and raceway.</li> <li>• <b><u>Note:</u></b> Responsible only for installation and <u>not</u> for diagnostics and airflow measurements.</li> <li>• Shall be installed in conformance to all applicable codes.</li> <li>• For Details / Specifications see Appendix A: "Mechanical Ventilation".</li> <li>• Balanced System</li> <li>• Exhaust System</li> <li>• Supply System</li> </ul>	<p>\$1,700.00</p> <p>\$1,200.00</p> <p>\$1,200.00</p>		

<p><b><u>VACANCY SENSOR / SWITCH:</u></b></p> <ul style="list-style-type: none"> <li>• Provide and install vacancy sensor switch.</li> <li>• The new vacancy sensor switch shall be installed in conformance with the California Electrical Code (CEC), local code, and CSD Weatherization Installation Standards (WIS).</li> <li>• For Details/Specifications are provided in WIS Manual, Section 60: "Vacancy Sensors" and will be provided upon selection/award of work.</li> </ul>	\$55.00		
<p><b><u>CEILING FANS:</u></b></p> <ul style="list-style-type: none"> <li>• Provide and install ceiling fan.</li> <li>• Must be <b>ENERGY STAR</b> rated.</li> <li>• Shall be installed in conformance to all applicable codes.</li> <li>• For Details/Specifications provided in WIS Manual Section 33: "Ceiling Fans" and will be provided upon selection/award of work.</li> </ul>	LIHEAP: \$250.00/Fan DOE: \$227/Fan		

**NOTE:**

**Additional work to exceed the given amount to be approved by project manager (PACE).**

I certify under penalty of perjury that the information on this application is true and correct. I also declare that I have the authority to submit this BID, which is valid for \_\_\_\_\_ days / \_\_\_\_\_ month (s) / \_\_\_\_\_ year (s). (Choose time period & enter term).

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Print Name**

\_\_\_\_\_  
**Title**

**Attachment 6  
Specialty Services – Insulation**

Items below are bids for Insulation Services (C2), to include installation of insulation as indicated. Please provide your fees / bids by measure to include administration, labor, material and disposal. Permits and licensing fees shall be treated as separate measures billed at actual cost, unless otherwise noted. (Please submit a spreadsheet showing all cost by measure).

**Please Note:**

We have listed the maximum allowable reimbursement rate for each measure as established by our funding source – California Department of Community Services and Development (CSD). These maximums are statewide, generic rates. They may not necessarily reflect the local market rate(s), which in many instances may be considerably lower. Bidders should, therefore, submit their best price and be aware that bids grossly in excess of the local market rate (even if under the posted statewide maximum) will not be accepted.

<b>INSULATION MEASURES (CONVENTIONAL HOMES)</b>	<b>Comments</b>	<b>Maximum Reimbursement Rate</b>	<b>Proposed Price (Bid)</b>
<p><b><u>PERMITS:</u></b></p> <p><b><u>NOTE:</u></b> Permit Costs should <u>not</u> to be included in bids. Permit costs should reflect the actual cost of the permit(s).</p>		Actual Cost	
<p><b><u>ATTIC / CEILING - INSULATION:</u></b></p> <p>ALL INSULATION:</p> <ul style="list-style-type: none"> <li>• Shall be certified to comply with the CCR, Title 24, Part 12, Chapters 12-13, and "Standards for insulating Material".</li> </ul> <p>MINERAL FIBER:</p> <ul style="list-style-type: none"> <li>• Flexible (Batts): Conformance to ASTM C665.</li> <li>• Loose Fill: Conformance to ASTM C764</li> </ul> <p>CELLULOSE:</p> <ul style="list-style-type: none"> <li>• Loose Fill <ul style="list-style-type: none"> <li>- Licensed for sale in California</li> <li>- Compliance with CPSC 16 CFR, Part 12, Chapter 12-13</li> <li>- Listed in Department of Consumer Affairs' "Directory of Certified Insulation Materials"</li> </ul> </li> </ul> <p><b><u>ADDITIONAL DETAILS / SPECIFICATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• For additional details / specifications see Section 20A: "Ceiling Insulation for Conventional Homes".</li> </ul>			
<b>ATTICS - CELLULOSE BLOWN</b>		<b>Maximum Reimbursement Rate</b>	
<b>Scope of Work</b>		<b>Sq. Ft.</b>	
R-value 0-11		\$0.86 / sq. ft.	
R-value 12-19		\$1.05 / sq. ft.	
R-value 20-30		\$1.18 / sq. ft.	
R-value 31-38		\$1.40 / sq. ft.	
<b>ATTICS - FIBERGLASS BLOWN</b>			
<b>Scope of Work</b>		<b>Sq. Ft.</b>	
R-value 0-11		\$0.86 / sq. ft.	

R-value 12-19		\$1.05 / sq. ft.	
R-value 20-30		\$1.18 / sq. ft.	
R-value 31-38		\$1.40 / sq. ft.	
<b>ATTICS - FIBERGLASS BATTS</b>			
<b>Scope of Work</b>			
R-value 0-11		\$0.86 / sq. ft.	
R-value 12-19		\$1.05 / sq. ft.	
R-value 20-30		\$1.18 / sq. ft.	
R-value 31-38		\$1.40 / sq. ft.	
Knee Wall & Skylight Wells:			
R-value 0-11		\$1.05 / sq. ft.	
R-value 12-19		\$1.18 / sq. ft.	
<b><u>FLOOR - INSULATION:</u></b>			
ALL FLOOR INSULATION MATERIAL:			
<ul style="list-style-type: none"> <li>• Shall be certified to comply with the CCR, Title 24, Part 12, Chapters 12-13, and "Standards for insulating Material".</li> </ul>			
MINERAL FIBER:			
<ul style="list-style-type: none"> <li>• Flexible (Batts and Blankets) <ul style="list-style-type: none"> <li>- Conformance to ASTM C665</li> </ul> </li> <li>• High Density Fiberglass Board <ul style="list-style-type: none"> <li>- Conformance to ASTM C726.</li> </ul> </li> </ul>			
RIGID FOAM:			
<ul style="list-style-type: none"> <li>• Performed polyisocyanurate board foil faced on both sides. <ul style="list-style-type: none"> <li>- Conformance to FS HH-I-1972 or ASTM C1289.</li> </ul> </li> <li>• Rigid, cellular Polystyrene Thermal Insulation. <ul style="list-style-type: none"> <li>- Conformance to ASTM C578</li> </ul> </li> </ul>			
INSULATION COVER:			
<ul style="list-style-type: none"> <li>• For Floor Insulation, where no foundation wall exists: <ul style="list-style-type: none"> <li>- if <u>not</u> exposed to precipitation, wind, and the elements support with woven wire or minimum 70 perm breathable cover is required.</li> </ul> </li> </ul>			
<b><u>SUPPORTS AND ANCHORS:</u></b>			
LIFE EXPECTANCY:			
<ul style="list-style-type: none"> <li>• All attachment materials shall have a minimum expected service life of 10 years.</li> </ul>			
STAPLES:			
<ul style="list-style-type: none"> <li>• Zinc-coated, stainless steel, or similar corrosion-resistant material.</li> <li>• 18 gauge minimum diameter</li> <li>• Minimum 1/4" crown for wood lath.</li> <li>• Minimum 3/8" crown for other insulation support systems.</li> <li>• Minimum 5/8" joist penetration.</li> </ul>			
NAILS:			
<ul style="list-style-type: none"> <li>• Galvanized nails.</li> <li>• 5/8" minimum joist penetration.</li> </ul>			
WIRE SUPPORTS:			
<ul style="list-style-type: none"> <li>• Wire shall be zinc-coated, stainless, or similar corrosion-resistant material.</li> <li>• Minimum 20 gauge.</li> </ul>			

<p><b>NETTING FOR FLEXIBLE INSULATION TYPE:</b></p> <ul style="list-style-type: none"> <li>Woven wire shall be galvanized.</li> <li>Netting shall be propylene or equivalent with a minimum 75 pound breaking strength.</li> </ul> <p><b>SPRING WIRE SUPPORT RODS ("LIGHTNING RODS") FOR FLEXIBLE INSULATION TYPES</b></p> <ul style="list-style-type: none"> <li>Spring steel wire with chisel points (lightning rods, wirestays).</li> <li>Minimum 13 gauge</li> <li>Joists over 24" OC: Spring wire support rods are <u>not</u> allowed.</li> </ul> <p><b>VAPOR RETARDER:</b></p> <p><b>EXISTING VAPOR RETARDER:</b></p> <ul style="list-style-type: none"> <li>Existing undamaged ground cover acceptable if at least 4 mil thick and in good condition after insulation is installed.</li> </ul> <p><b>NEW VAPOR RETARDER:</b></p> <ul style="list-style-type: none"> <li>A <u>new</u> vapor retarder shall be installed in conformance with the title 24 requirements below.</li> <li>Vapor Barrier Material for CZ 1 - 16: <ul style="list-style-type: none"> <li>- A Class I or II vapor retarder shall be installed: <ul style="list-style-type: none"> <li>Class I - perm rating less than 0.1 (vapor retarder or barrier)</li> <li>Class II - perm rating between 0.1 and 1.0 (vapor retarder) A ground moisture barrier shall be used that meets tear and puncture resistance standard ASTM D703.</li> </ul> </li> </ul> </li> </ul> <p><b>ADDITIONAL DETAILS / SPECIFICATIONS:</b></p> <ul style="list-style-type: none"> <li>For additional details / specifications see Section 22A: "Ceiling Insulation for Conventional Homes".</li> </ul>			
<b>FLOORS - INSULATION</b>		<b>Maximum Reimbursement Rate</b>	
<b>Scope of Work</b>	<b>(Indicate Insulation Type)</b>	<b>Sq. Ft.</b>	
R-19 ( > 36" clearance)		\$1.83 / sq. ft.	
( < 36" clearance)		\$2.23 . sq. ft.	
Crawlspace perimeter/Basement wall			
R-13 ( > 36" clearance)		\$1.83 / sq. ft.	
( < 36" clearance)		\$2.23 . sq. ft.	
<p><b><u>WALL - INSULATION:</u></b></p> <p><b><u>ALL WALL INSULATION:</u></b></p> <p><b>FLEXIBLE AND RIGID INSULATION MATERIALS:</b></p> <ul style="list-style-type: none"> <li>All insulation shall be certified to comply with the CCR, Title 14, Part 12, Chapter 12-13, "Standards for Insulating Material".</li> <li>Facing shall meet applicable code requirements.</li> <li>A non-absorbent, fire rated insulation will be used with a minimum life expectancy of 10 years.</li> </ul> <p><b>MINERAL FIBER:</b></p> <ul style="list-style-type: none"> <li>Flexible <ul style="list-style-type: none"> <li>- Conformance to ASTM C665.</li> </ul> </li> <li>High Density Fiberglass Board <ul style="list-style-type: none"> <li>- Conformance to ASTM 726.</li> </ul> </li> <li>Loose Fill <ul style="list-style-type: none"> <li>- Conformance to ASTM 764</li> </ul> </li> </ul> <p><b>CELLULOSE:</b></p> <ul style="list-style-type: none"> <li>Loose Fill</li> </ul>			



- Shall be licensed for sale in California.
- Listed in the Department of Consumer Affairs "Directory of Certified Insulation Materials".

**RIGID FOAM:**

- Preformed Foil Faced Polyisocyanurate Board that conforms to FS HH-I-1972/1.
- Facing shall be a code-approved fire rated material (conform allowed material with local jurisdiction).

**DENSE PACK INSULATION:**

- Blown fiberglass, mineral fiber, or rock and slag wool used in an enclosed cavity will be installed at or above the manufacturer recommended density to limit air flow that corresponds to an air permeance value of 3.5 cfm/sq. ft. at 50 pascals, as measured using BPI -102 "Standard for Air Resistance of Thermal Insulation Used in Retrofit Cavity Applications - Material Specification" or ASTM C 522, E 283, or E 2178.
- The number of bags installed will be confirmed and will match the number required on the coverage chart.

**ADDITIONAL DETAILS / SPECIFICATIONS:**

- Additional details/Specifications are provided in WIS Manual Section 23: "Ceiling Insulation for Conventional Homes" and will be provided upon selection/award of work.

<b>WALLS - INSULATION</b>		<b>Maximum Reimbursement Rate</b>
<b>Scope of Work</b>	<b>(Indicate Insulation Type)</b>	
R-13 (2 x 4 Framing)		\$2.00/sq. ft.

**NOTE:**

**Additional work to exceed the given amount to be approved by project manager (PACE).**

I certify under penalty of perjury that the information on this application is true and correct. I also declare that I have the authority to submit this BID, which is valid for \_\_\_\_\_ days / \_\_\_\_\_ month (s) / \_\_\_\_\_ year (s). (Choose time period & enter term).

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Printed Name**

\_\_\_\_\_  
**Title**

**ATTACHMENT 7  
WEATHERIZATION SERVICES**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweathering - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
<b>SECTION: Mandatory - Assessments/Diagnostics</b>								
1	Dwelling Assessment	With Attic ----- Without Attic ----- Modified Assessment (for Reweatherized dwellings only)	ADS		No maximum at this time	1 assessment per dwelling unless expired		6 months
2	REM/Design Energy Audit		ADS		No maximum at this time	1 audit per dwelling		
3	Combustion Appliance Safety Test	Pre ----- Post	ADS		No maximum at this time	No maximum at this time	Required if infiltration reduction measures (INF) are installed	60 days
4	Blower Door Test	Pre ----- Post	ADS		No maximum at this time	No maximum at this time		
5	Duct Leakage Test	Pre ----- Post	ADS		No maximum at this time	No maximum at this time		
6	Environmental Testing		ADS		No maximum at this time	No maximum at this time	If incurred	
7	HERS Rater		ADS			No max. quantity	If incurred	
8	Permits		ADS			No max. quantity	If incurred	
9	Contractor Post-Weatherization Inspection		ADS		No maximum at this time	1 inspection per dwelling unless return visit is necessary to inspect additional work performed		
<b>SECTION: Mandatory - Health and Safety</b>								
1	Carbon Monoxide Alarm	Lithium Battery	HSM		\$68 per alarm	1 occurrence per dwelling; no maximum quantity	4	
2	Smoke Alarm	Lithium Battery or Hard- Wired	HSM		\$68 per alarm	1 occurrence per dwelling; minimum quantity as required by code	4	
3	Cooking Appliance Repair, Free Standing Range or Cook Top	Electric ----- Natural Gas and Propane ----- Other Types Not Listed	HSM		\$467 per dwelling or 50% of replacement	1 repair or replacement per dwelling; primary only	4	

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweathering - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
4	Cooking Appliance Replacement, Free Standing Range or Cook Top	Electric	HSM		\$934 per dwelling	1 repair or replacement per dwelling; primary only	10	
		Natural Gas and Propane						
		Other Types Not Listed						
5	Cooling Repair	AC Wall/Window	HSM		\$788 per dwelling or 50% of replacement	1 repair or replacement per dwelling; primary only	4	
		Evaporative Cooler			\$822 per dwelling or 50% of replacement			
		FAU (Split System)			\$1742 per dwelling or 50% of replacement			
		Multi-Unit Central System			\$788 per MUD or 50% of replacement	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)		
6	Cooling Replacement	AC Wall/Window	HSM		\$1575 per dwelling	1 repair or replacement per dwelling; primary only	10	
		Evaporative Cooler Roof			\$1644 per dwelling		15	
		Evaporative Cooler Window/Wall			\$3483 per dwelling			
		Forced Air Unit (Split System)			\$1575 per MUD	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)	20	
		Multi-Unit Central System						
7	CVA Venting	All Other	HSM		\$225 per dwelling	1 repair or replacement per dwelling	N/A	
		Louver Doors Only			\$500 per dwelling			
8	Heating Source Repair	Exterior Wall Direct Vent, Interior Wall and Floor Furnace	HSM		\$1742 per dwelling or 50% of replacement	1 repair or replacement per dwelling; primary only	4	
		Forced Air Unit (Split System)			\$2296 per dwelling or 50% of replacement			
		Multi-Unit Central System			\$1742 per MUD or 50% of replacement	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)		
		Other Types Not Listed			\$2375 per dwelling or 50% of replacement	1 repair or replacement per dwelling; primary only		
		Package (Dual Pack)			\$3364 per dwelling or 50% of replacement			
		Wood-Fueled			\$2375 per dwelling or 50% of replacement			

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweathering - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
9	Heating Source Replacement	Exterior Wall Direct Vent, Interior Wall and Floor Furnace	HSM		\$3483 per dwelling	1 repair or replacement per dwelling; primary only	20	
		Forced Air Unit (Split System)			\$4591 per dwelling			
		Multi-Unit Central System			\$3483 per dwelling	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)		
		Other			\$4749 per dwelling			
		Package (Dual Pack)			\$6728 per dwelling	1 repair or replacement per dwelling; primary only		
		Wood-Fueled			\$4749 per dwelling			
10	Lead-Safe Weatherization		HSM		N/A	As required by EPA	N/A	
11	Water Heater Repair	Electric	HSM		\$970 per dwelling or 50% of replacement	1 repair or replacement per dwelling; primary only	4	
		Gas & Propane						
		Mobile Home						
		Multi-Unit Central System			\$970 per MUD or 50% of replacement	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)		
12	Water Heater Replacement	Electric	HSM		\$1940 per dwelling	1 repair or replacement per dwelling; primary only	10	
		Natural Gas and Propane						
		Mobile Home						
		Multi-Unit Central System			\$1940 per MUD	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)		
13	Solar Water Heater - Scheduled Maintenance		HSM		No maximum at this time	No maximum at this time	10	
14	Solar Water Heater - Warranty Work		HSM		No maximum at this time	No maximum at this time	10	
<b>SECTION: Mandatory</b>								
1	Attic Ventilation		INS		\$355 per dwelling	1 occurrence per dwelling; no maximum quantity	20	
2	Caulking	Mobile Home	INF		\$90 per dwelling	1 caulking per dwelling	4	
		Multi-Unit			\$45 per dwelling			
		Single			\$75 per dwelling			

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweatherization - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
3	Ceiling Insulation	R-value 0-11	INS		\$0.86 per sq ft	1 occurrence per dwelling; no maximum quantity	20	
		R-value 12-19			\$1.05 per sq ft			
		R-value 20-30			\$1.18 per sq ft			
		R-value 31-38			\$1.40 per sq ft			
4	Compact Fluorescent Lamps	Hard Wire	EBL		\$68 per lamp	2 lamps per dwelling	4	
		Thread Based			\$7 per bulb	10 bulbs per dwelling		
5	Cover Plate Gasket		INF		\$33 per dwelling	1 occurrence per dwelling, no maximum quantity	20	
6	Door, Exterior (All Other Types)	Repair	INF		\$250 per door	1 occurrence per dwelling, no maximum quantity	15	
		Replacement - Catastrophic leaks only			\$500 per door			
7	Door, Sliding Glass	Repair - 72" x 80" and smaller	INF		\$713 per door	1 repair per dwelling	15	
		Repair - Greater than 72" x 80"			\$856 per door			
		Replacement - 72" x 80" and smaller - Catastrophic leaks only			\$1,425 per door	1 replacement per dwelling		
		Replacement - Greater than 72" x 80" - Catastrophic leaks only			\$1,782 per door			
8	Duct Insulation		INS		Up to \$0.95 per square foot	1 occurrence per dwelling; no maximum quantity	10	
9	Duct Repair and Replacement		INF		\$2200 per dwelling	1 repair or replacement per dwelling	10	
10	ECM Blower Motor Retrofit	PLACEHOLDER ONLY	EEU		PLACEHOLDER	PLACEHOLDER		
11	Efficient Fan Controller	Enhanced Time Delay Relay ECM Motor - PLACEHOLDER ONLY	EEU		PLACEHOLDER	PLACEHOLDER		
		Enhanced Time Delay Relay PSC Motor - PLACEHOLDER ONLY						
12	Filter Replacement	Air Conditioning	GHW		\$100 per dwelling	1 occurrence per dwelling; no maximum quantity	4	
		Furnace						
13	Fluorescent Torchiere Lamp Replacement		EBL		\$150 per dwelling	2 lamps per dwelling	4	

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweathering - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
14	Glass Replacement - Catastrophic leaks only		INF		\$525 per dwelling	1 occurrence per dwelling; no maximum quantity	10	
15	Hot Water Flow Restrictor	Faucet Restrictor	GHW		\$8 per restrictor	1 occurrence per dwelling; no maximum quantity	4	
		Low Flow Handheld Showerhead			\$35 per showerhead			
		Low Flow Showerhead			\$27 per showerhead			
		Thermostatic Shower Valve (TSV only)			\$50 per Valve		10	
		Thermostatic Low Flow Showerhead (TSV + LFSH Combo)			\$61 per showerhead TSV combo			
Thermostatic Tub Spout - PLACEHOLDER ONLY		PLACEHOLDER	PLACEHOLDER					
16	Kitchen Exhaust Installation, Repair & Replacement	Range Hoods, Wall/Ceiling Mounts	OTH		\$350 per dwelling	1 repair or replacement per dwelling	10	
17	Kneewall Insulation	R-value 0-11	INS		\$1.05 per sq ft	1 occurrence per dwelling; no maximum quantity	20	
		R-value 12-19			\$1.18 per sq ft			
18	LED Night Lights		EBL		\$6 per night light	1 occurrence per dwelling; no maximum quantity	16	
19	LED Replacement Bulbs		EBL		\$25 per bulb	1 occurrence per dwelling; no maximum quantity	16	
20	Limited Home Repair		OTH		\$600 per dwelling (Amount TBD for disasters)	1 occurrence per dwelling	Dependent upon measure it supports	
21	Low Flow Toilet	Replacement (only when required by local building department permit process)	GHW		\$325 per toilet	1 occurrence per dwelling; quantity determined by permit requirements	20	
22	Mechanical Ventilation (if required by blower door diagnostics and MV calculations)	Balanced System	OTH		\$1,700 per dwelling	1 occurrence per dwelling	10	
		Exhaust System			\$1,200 per dwelling			
		Supply System			\$1,200 per dwelling			
23	Microwave Oven		EBL		\$284 per oven	1 oven per dwelling	10	
24	Minor Envelope Repair		INF		\$400 per dwelling (Amount TBD for disasters).	1 occurrence per dwelling	4	
25	Power Strips	Tier 2 Advanced	EBL		\$105 per strip	1 occurrence per dwelling; no maximum quantity	8	

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweathering - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
26	Refrigerator Replacement	19 cu. ft. and below	EBL		\$1032 per appliance	1 replacement per dwelling	15	
		Over 19 cu. ft.			\$1187 per appliance			
27	Thermostat	Manual	HCM		\$65 per thermostat	1 thermostat per dwelling	10	
		Programmable - Learning - PLACEHOLDER ONLY			PLACEHOLDER	PLACEHOLDER		
		Programmable - Standard			\$157 per thermostat	2 thermostat per dwelling		
28	Vacancy Sensor Switch		EBL		\$55 per Sensor	1 occurrence per dwelling; no maximum quantity	8	
29	Vent Cover, Interior	Evaporative Cooler/Air Conditioner	INF		\$66 per cover	2 covers per dwelling	4	
30	Water Heater Blanket		GHW		\$55 per blanket	1 blanket per dwelling	4	
31	Water Heater Pipe Wrap		GHW		\$3.90 per lin ft	1 occurrence per dwelling; no maximum quantity	10	
32	Weatherstripping	Hinged Door	INF		\$44 per door	1 occurrence per dwelling; no maximum quantity	4	
		Other	INF		\$2.10 per lin ft			
33	Window	Repair - Catastrophic leaks only	INF		\$1200 per dwelling	1 occurrence per dwelling; no maximum quantity	20	
		Replacement - Catastrophic leaks only			\$2400 per dwelling			
<b>SECTION: Optional</b>								
1	Ceiling Fan		OTH		\$250 per fan-LIHEAP \$227 per fan-DOE	1 occurrence per dwelling; no maximum quantity	10	
2	Exterior Water Pipe Wrap		OTH		\$3.90 per lin ft	1 occurrence per dwelling; no maximum quantity	10	
3	Floor Foundation Venting		INS		\$360 per dwelling	1 occurrence per dwelling; no maximum quantity	20	
4	Floor Insulation	> 36" clearance	INS		\$1.83 per sq ft	1 occurrence per dwelling; no maximum quantity	20	
		< 36" clearance			\$2.23 per sq ft			
5	Mechanical Ventilation	Balanced System	OTH		\$1,700 per dwelling	1 occurrence per dwelling	10	
		Exhaust System			\$1,200 per dwelling			
		Supply System			\$1,200 per dwelling			
6	Shadescreens		GHW		\$500 per dwelling	1 occurrence per dwelling; no maximum quantity	4	

**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

Line No.	Measure	Type	Classification *	SUBCONTRACTOR MAXIMUM REIMBURSEMENT RATES	Maximum Expenditure Limits Per Job (NO FIXED FEES **)	Quantity Limits Per Job	Reweatherization - LIHEAP and ECIP Useful Life (Replacement Cycle in Full Years)	Useful Life
7	Shutters		GHW		\$6.00 per sq ft	1 occurrence per dwelling; no maximum quantity	10	
8	Storm Windows	Fixed, Glass Glazing	GHW		\$12.40 per sq ft	1 occurrence per dwelling; no maximum quantity	10	
		Fixed, Polycarbonate			\$18.40 per sq ft			
		Operable, Glass Glazing			\$13.90 per sq ft			
		Operable, Polycarbonate			\$21.40 per sq ft			
9	Timer, Electric Water Heater		EBL		\$112 per timer	1 timer per dwelling	4	
10	Tinted Window Film		OTH		\$3.30 per sq ft	1 occurrence per dwelling; no maximum quantity	4	
11	Wall Insulation, Stucco and Wood	R-value 13	INS		\$2.00 per sq ft	1 occurrence per dwelling; no maximum quantity	20	
<b>SECTION: Optional - Energy Audit Required</b>								
1	Cooling Replacement (Energy Efficiency Upgrades)	AC Wall/Window	EEU		Requires REM/Design Energy Audit	1 repair or replacement per dwelling; primary only	10	
		Evaporative Cooler Roof					15	
		Evaporative Cooler Window/Wall					20	
		Forced Air Unit (Split System)						
Multi-Unit Central System	1 repair or replacement per MUD unit; primary only (66%/50% rule applies)							
2	Heating Source Replacement (Energy Efficiency Upgrades)	Exterior Wall Direct Vent, Interior Wall and Floor Furnace	EEU		Requires REM/Design Energy Audit	1 repair or replacement per dwelling; primary only	20	
		Forced Air Unit (Split System)						
		Multi-Unit Central System						
		Other						
		Package (Dual Pack)						
Wood-Fueled	1 repair or replacement per dwelling; primary only							
3	Windows	Replacement	EEU		Requires REM/Design Energy Audit; includes sliding glass doors	1 occurrence per dwelling; no maximum quantity (66%/50% rule applies for MUD)	20	



**ATTACHMENT 7  
WEATHERIZATION SERVICES, Continued**

<b>* Classification Key</b>			
ADS	Assessment/Diagnostics	HSM	Health and Safety Measure
EBL	Electric Baseload Measure	INF	Infiltration Reduction Measure
EEU	Energy Efficiency Upgrade	INS	Insulation Measure
GHW	General Heat Waste	OTH	Other Program Cost
HCM	Heating/Cooling Measure	SWE	SWEATS

\*\* Maximum reimbursements do not represent fixed fees. Waivers must be sought if costs and/or quantities exceed maximums or installation is outside the scope of the program.

**Attachment 8**

**PACE PRIMARY SERVICE AREA – ZIP CODES**

<b>90001</b>	LA (South Central)	<b>90064</b>	Cheviot Hills / Rancho Park
<b>90002</b>	LA (Watts)	<b>90066</b>	Mar Vista
<b>90003</b>	LA(South Central)	<b>90067</b>	Century City
<b>90006</b>	LA (Pico Heights)	<b>90068</b>	Hollywood
<b>90007</b>	LA (South Central)	<b>90069</b>	West Hollywood
<b>90008</b>	LA(Baldwin Hills/Crenshaw )	<b>90071</b>	LA (Arco Towers)
<b>90009</b>	LA (Airport Worldway)	<b>90077</b>	Bel Aire Estates / Beverly Glen
<b>90011</b>	LA (South Central)	<b>90094</b>	Playa Vista
<b>90012</b>	LA (Civic Center /Chinatown)	<b>90210</b>	Beverly Hills / Beverly Glenn
<b>90013</b>	LA (Downtown-Federal)	<b>90211</b>	Beverly Hills
<b>90014</b>	LA (Downtown-CBD)	<b>90212</b>	Beverly Hills
<b>90015</b>	LA (Downtown)	<b>90220</b>	Compton / Rancho Dominguez
<b>90017</b>	LA (Downtown)	<b>90221</b>	Compton / Rancho Dominguez
<b>90020</b>	Hancock Park	<b>90222</b>	Compton / Rosewood
<b>90021</b>	LA (Downtown-Market)	<b>90223</b>	Compton
<b>90024</b>	Westwood	<b>90224</b>	Compton
<b>90025</b>	Sawtelle	<b>90231</b>	Culver City
<b>90027</b>	Griffith Park	<b>90245</b>	El-Segundo
<b>90028</b>	Hollywwod	<b>90247</b>	Gardena
<b>90029</b>	Downtown LA	<b>90248</b>	Gardena
<b>90030</b>	(Terminal Annex)	<b>90249</b>	Gardena
<b>90036</b>	Park La Brea	<b>90250</b>	Hawthorne (Holly Park)
<b>90037</b>	LA (South Central)	<b>90251</b>	Hawthorne (P.O. Box)
<b>90038</b>	Hollywood	<b>90254</b>	Hermosa Beach
<b>90039</b>	Atwater Village	<b>90260</b>	Lawndale
<b>90043</b>	LA (Hyde Park / Windsor Hills)	<b>90261</b>	Lawndale
<b>90044</b>	LA (Athens)	<b>90266</b>	Manhattan Beach
<b>90045</b>	LA (LAX Area / Westchester)	<b>90267</b>	P.O. Box
<b>90046</b>	Mount Olympus	<b>90272</b>	Castellmare / Pacific Palisades
<b>90047</b>	LA (South Central-Wagner)	<b>90277</b>	Redondo Beach
<b>90048</b>	West Beverly	<b>90278</b>	Redondo Beach
<b>90049</b>	Bel Aire Estates / Brentwood	<b>90291</b>	Venice
<b>90050</b>	Los Angeles	<b>90292</b>	Marina Del Rey
<b>90051</b>	Los Angeles	<b>90294</b>	Venice
<b>90052</b>	Los Angeles	<b>90295</b>	Marina Del Rey
<b>90053</b>	Los Angeles	<b>90296</b>	Playa Del Rey
<b>90054</b>	Los Angeles	<b>90301</b>	Inglewood
<b>90055</b>	Los Angeles	<b>90302</b>	Inglewood
<b>90057</b>	LA (Westlake)	<b>90303</b>	Inglewood
<b>90059</b>	LA (Watts / Willowbrook))	<b>90304</b>	Inglewood (Lennox)
<b>90060</b>	Los Angeles	<b>90305</b>	Inglewood
<b>90061</b>	LA (South Central -South)	<b>90306</b>	Inglewood
<b>90062</b>	LA (South Central-Western)		

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<b>90307</b>	Inglewood
<b>90308</b>	Inglewood
<b>90309</b>	Inglewood
<b>90310</b>	Inglewood
<b>90311</b>	Inglewood
<b>90312</b>	Inglewood
<b>90401</b>	Santa Monica
<b>90402</b>	Santa Monica
<b>90403</b>	Santa Monica
<b>90404</b>	Santa Monica
<b>90405</b>	Santa Monica
<b>90406</b>	Santa Monica
<b>90407</b>	Santa Monica
<b>90408</b>	Santa Monica
<b>90409</b>	Santa Monica
<b>90410</b>	Santa Monica
<b>90411</b>	Santa Monica
<b>90501</b>	Torrance
<b>90502</b>	Torrance
<b>90503</b>	Torrance
<b>90504</b>	Torrance
<b>90505</b>	Torrance
<b>90506</b>	Torrance
<b>90507</b>	Torrance (P.O. Box)
<b>90508</b>	Torrance
<b>90509</b>	Torrance

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<b>90510</b>	Torrance
<b>90723</b>	Paramount
<b>90745</b>	Carson
<b>90746</b>	Carson
<b>90747</b>	Carson
<b>90749</b>	Carson
<b>91201</b>	Glendale
<b>91202</b>	Glendale
<b>91203</b>	Glendale
<b>91204</b>	Glendale
<b>91205</b>	Glendale
<b>91206</b>	Glendale
<b>91207</b>	Glendale
<b>91208</b>	Glendale
<b>91209</b>	Glendale
<b>91210</b>	Glendale
<b>91502</b>	Burbank
<b>91503</b>	Burbank
<b>91505</b>	Burbank
<b>91506</b>	Burbank
<b>91521</b>	Burbank
<b>91522</b>	Burbank
<b>91523</b>	Burbank
<b>91603</b>	North Hollywood
<b>91608</b>	Universal City

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## MINIMUM WARRANTY REQUIREMENTS

### INTRODUCTION

This document lists warranty requirements, in accordance with state-wide policy, for each measure installed in the CSD weatherization program. These are *minimum* requirements.

#### Warranty Categories/Types

1. Warranty requirements are divided into two categories:
  - a. Contractor (or Agency), and
  - b. Manufacturer .
2. Manufacturer warranties shall cover the primary measure material or replaced appliance.
3. Contractor warranties are subdivided into Ancillary Materials and Labor warranties.

#### Repair vs. Replacement

1. Within each Health and Safety measure, there is a specified warranty period for repaired appliances, and a different warranty period for those measures that are replaced. This is indicated in parentheses. Some other measures have the same warranty period for repair and replacement activities.

#### Component Type

1. Within some Manufacturer Warranty field, the type of component for which the warranty period applies is indicated in parentheses. For example, for window replacement:
  - a. "IGU" means the warranty period applies only to the insulated glazing unit.
  - b. "Other" refers to the warranty period that applies to all other components of a window.

#### Complaint Process / Contractors State License Board Regulations

1. Consumers have four (4) years to file a complaint with the Contractors State License Board (CSLB) about a faulty project. That deadline is extended if additional warranties are written into the CSD weatherization program warranty requirements.

#### General Conditions

1. At a minimum, the following concerns and warnings will be addressed within the warranty .
  - a. Possible drying and shrinking effects
  - b. Storage of hazardous and flammable materials
  - c. Mold/moisture creation

### 2.0 MINIMUM WARRANTY REQUIREMENTS PER MEASURE

CSD Weatherization MINIMUM Warranty Requirements			
Measure	Contractor		Manufacturer Warranty (Primary)
	Ancillary Material	Labor	
<b>Health &amp; Safety</b>			
Carbon Monoxide Alarm	1yr.	1yr.	5 yrs.
Central AC - Repair	1yr.	1yr.	1yr.
Central AC - Replacement	1yr.	1yr.	5 yrs.(compressor) / 1yr. (other)
Cooking Appliance Repair	1yr.	1yr.	90 days
Cooking Appliance Replacement	1yr.	1yr.	1yr.
Evaporative Cooler - Repair	1yr.	1yr.	90 days
Evaporative Cooler - Replacement	1yr.	1yr.	5 yrs. (pan) / 1yr. (other)

B1

CSD Weatherization MINIMUM Warranty Requirements			
Measure	Contractor Warranty		Manufacturer Warranty (Primary Material/Appliance)
	Ancillary Materials	Labor	
<b>Health &amp; Safety (cont.)</b>			
FAU - Repair	1yr.	1yr.	90 days
FAU - Replacement	1yr.	1yr.	5 (compressor)/ 1yr. (other)
Floor Furnace - Repair	1yr.	1yr.	90 days
Floor Furnace - Replacement	1yr.	1yr.	1yr.
Heat Pump - Repair	1yr.	1yr.	90 days
Heat Pump - Replacement	1yr.	1yr.	5 yrs. (compressor)/1yr.(other)
Smoke Alarms	1yr.	1yr.	10 yrs.
Wall Furnace - Repair	1yr .	1yr.	90 days
Wall Furnace - Replacement	1yr.	1yr.	1yr.
Water Heater - Repair	1yr.	1yr.	90 days
Water Heater - Replacement	1yr.	1yr.	5 yrs. (tank) / 1yr. (other)
Window/Wall AC - Repair	1yr .	1yr.	90 days
Window/Wall AC - Replacement	1yr .	1yr.	5 yrs.(compressor) / 1yr. (other)
Woodstove/Insert	1yr .	1yr.	3 yrs.(unit) / 1yr.(other)
<b>Insulation</b>			
Attic/Crawlspace Ventilation	1yr .	1yr.	1yr .
Celling Insulation	1yr .	1yr.	1yr .
Duct Insulation	1yr.	1yr.	1yr .
Floor Insulation	1yr.	1yr.	1yr .
Kneewall Insulation	1yr.	1yr .	1yr.
Wall Insulation	1yr.	1yr .	1yr.
Vapor Retarder and Fasteners (when associated with installation of insulation)	1yr.	1yr.	10 yrs.
<b>Infiltration Reduction</b>			
Caulking	1yr.	1yr.	10 yrs.
Cover Plate Gaskets	1yr.	1yr.	1yr.
Door Repair/Replacement	1yr.	1yr.	1yr.
Duct & Register Repair/Replacement	1yr.	1yr.	1yr.
Glass Replacement	1yr.	1yr.	1yr.
Kitchen Exhaust	1yr.	1yr.	1yr.
Minor Envelope Repair	1yr.	1yr.	1yr.
Sliding Glass Door Repair/Replacement	1yr.	1yr.	10 yrs.(IGU) / 3 yrs. (other)
Vent Cover, Interior	1yr.	1yr.	1yr.
Weatherstripping, Hinged Door	1yr.	1yr.	3 yrs.
Weatherstripping,Other	1yr.	1yr.	3 yrs.
Window Repair/Replacement	1yr.	1yr.	10 yrs. (IGU) / 3 yrs. (other)
<b>General Heat Waste</b>			
Air Filter Replacement (AC/Furnace)	90 days	90 days	90 days

CSD Weatherization MINIMUM Warranty Requirements			
Measure	Contractor Warranty		Manufacturer Warranty (Primary Material/Appliance)
	Ancillary Materials	Labor	
General Heat Waste (cont.)			
Hot Water Flow Restrictors (Faucet Aerators)	1yr.	1yr.	3 yrs.
Low Flow Showerheads	1yr.	1yr.	3 yrs.
Thermostatic Shower Valves and Showerheads	1yr.	1yr.	1yr.
Water Heater Insulation	1yr.	1yr.	1yr.
Water Heater Pipe Insulation	1yr.	1yr.	1yr.
Electric Baseload			
CFLs	1yr.	1yr.	1yr.
Exterior Hard Wired CFL Fixtures	1yr.	1yr.	1yr.
Fluorescent Torchiere	1yr.	1yr.	1yr.
Interior Hard Wired CFL Fixtures	1yr.	1yr.	1yr.
LED Bulb	1yr.	1yr.	3 yrs.
LED Night-light	1yr.	1yr.	1yr.
Microwave Oven	1yr.	1yr.	1yr.
Refrigerator Replacement	1yr.	1yr.	1yr.
Tier 2 Audio-Visual Advanced Power Strips	90 days	1yr.	3 yrs.
Vacancy Sensor	1yr.	1yr.	1yr.
Other Measures			
High-Efficiency Toilets	1yr.	1yr.	3 yrs.
Mechanical Ventilation	1yr.	1yr.	1yr.
Thermostat (Programmable; Manual)	1yr.	1yr.	1yr.
Optional Measures (LIHEAP) / Energy Audit-Driven (DOE)			
Ceiling Fans	1yr.	1yr.	3 yrs.
Cooling Replacement for Energy Efficiency Upgrade	1yr.	1yr.	1yr.
Electric Water Heater Timer	1yr.	1yr.	1yr.
Exterior Water Pipe Wrap	1yr.	1yr.	1yr.
Floor Foundation Venting	1yr.	1yr.	1yr.
Heating Replacement for Energy Efficiency Upgrade	1yr.	1yr.	1yr.
Shade Screens	1yr.	1yr.	1yr.
Storm Windows/Doors	1yr.	1yr.	1yr.
Window Film	1yr.	1yr.	10 yrs.
Window Replacement for Energy Efficiency Upgrade	1yr.	1yr.	1yr.

**CSD Training Requirements Matrix**  
(Rev. 09/12/16)

Courses	Required to be taken by:					Delivery
	Crew	Assessor <sup>1</sup>	Inspector <sup>1</sup>	Field Supervisor	Workforce Trainees <sup>2</sup>	
<b>Optional Assessment</b>						
Basic Skills (pre-employment assessment tool)						CSD Online Training Center
<b>Health and Safety Trainings</b>						
Workplace Safety	X	X	X	X	X	CSD Online Training Center
Environmental Hazards (Lead-Safe Weatherization, Mold, Asbestos, Regulatory Requirements)	X	X	X	X	X	CSD Online Training Center
HUD-Approved Lead-Safe Weatherization <sup>4</sup>	X	X	X	X	X	Certified Online Course or Certified Third-Party Trainer
OSHA 10	X					Certified Third-Party Trainer
OSHA 30				X		Certified Third-Party Trainer
<b>Prerequisite Training<sup>5</sup></b>						
Pre-Weatherization	X	X	X	X		CSD Online Training Center
Pre-Combustion Appliance Safety	X <sup>6</sup>	X	X	X		CSD Online Training Center
Pre-Duct Sealing/Blower Door Diagnostics	X <sup>6</sup>	X	X	X		CSD Online Training Center
<b>Weatherization Training</b>						
Basic Weatherization	X	X	X	X		CSD-Approved Training Center
Combustion Appliance Safety	X <sup>6</sup>	X	X	X		CSD-Approved Training Center

Courses	Required to be taken by:				Workforce Trainees <sup>2</sup>	Delivery
	Crew	Assessor <sup>1</sup>	Inspector <sup>1</sup>	Field Supervisor		
Combustion Appliance Safety Field Training <sup>7</sup>						CSD-Approved Field Trainer
Duct Sealing/Blower Door Diagnostics	X <sup>6</sup>	X	X	X		CSD-Approved Training Center
Assessor Training		X		X		CSD-Approved Field Trainer
Inspector Training			X	X		CSD-Approved Field Trainer
EPA Certified Renovator	X <sup>7</sup>	X <sup>7</sup>	X <sup>7</sup>	X <sup>7</sup>		EPA Certified Third Party Trainer
REM/Design Energy Audit Tool		X <sup>8</sup>		X <sup>8</sup>		CSD-Approved Field Trainer
Mechanical Ventilation	X	X	X	X		CSD Online Training Center
DOE Certified Quality Control Inspector <sup>9</sup>			X			DOE Certified Trainer

<sup>1</sup> All required CSD coursework as outlined must be successfully completed before conducting assessments or inspections as a CSD Assessor and/or CSD Inspector.

<sup>2</sup> Program reimbursement will be made for the required online health and safety training for workforce development trainees including Job Corps and CCC. Although all other training can be taken by trainees under this classification, it is not reimbursable by CSD programs.

<sup>3</sup> Health and safety training is required to be taken within 30 days of employment. All health and safety training is a prerequisite and must be successfully completed before registering and taking Weatherization Training.

<sup>4</sup> Only required if performing work on HUD units. Training must be successfully completed prior to work commencing on a HUD unit where lead-based paint is present.

<sup>5</sup> Prerequisite Training must be successfully completed before taking Weatherization Training

<sup>6</sup> Crew members who are going to perform diagnostic tests must successfully complete the Duct Sealing/Blower Door Diagnostics and Combustion Appliance Safety training series before performing these diagnostic tests in the field.



<sup>7</sup> Each agency shall have at least one EPA Certified Renovator on staff. It is at the discretion of the agency to determine which staff members shall be certified.

<sup>8</sup> REM/Design Energy Audit Tool training is not currently required; however, all energy audits must be submitted to CSD for review and approval. Mentoring by CSD technical staff is provided as part of the approval process.

<sup>9</sup> DOE Quality Control Inspector certification must be received before conducting inspections under the DOE Weatherization Assistance Program only. Training required for the DOE program only.

Note: Additional field or enhancement training may be required to address deficiencies if trainee fails to demonstrate appropriate skills and knowledge during a monitored field practice by a CSD inspector, CSD field representative and/or CSD training provider.