REQUEST FOR BID # 08-3118		Comm	Community Relations –Social Development		
			Commission (CR-SDC)		
Emergency Furnace Services			Weatherization Program		
			1730 West North Ave		
THIS IS NOT AN ORDER	REV. 6/20/2	017	Milwaukee, V	VI 53205	
Bid Due Date		All question	s relating to this Reques writing t	t For Bid shall be submitted in co:	
		Terri	Eckels-Nikoo Procu	rement Coordinator	
Tuesday, September 18, 201	.8, 2:00 p.m. Cī	1730	W. North Avenue, M	filmankee, WI 53205 il tnikoo@cr-sdc.org	
Quote Price and Deliver	y FOB				
FOB Destination (also see A	nnendix A 50)	Note	e – Email and Fax l	oids not accepted.	
1 OD Destination (also see A		ndar of Events			
	Cale	iluai di Evelits			
Friday, August 31, 2018, 10:00 a.r		RFB Issuance			
Thursday, September 6, 2018, 2:0	•		Submitting Written	Questions	
Thursday, September 13, 2018, 8		-	Bidders' Meeting		
Tuesday, September 18, 2018, 2:	-	Bid Due Date	2		
Tuesday, September 18, 2018, 2:0	01 p.m. CT	Bid Opening			
We claim Wisconsin certified minority Wisconsin Statutes, a 5% preference r Veteran-owned Business (DVB). Bidd concerning the certification process, c WI 53703, (608) 261-2510. Does Not	nay be granted to a er must be certified ontact the Wisconsi	CERTIFIED Minority B by the Wisconsin Dep n Department of Adm	usiness Enterprise (M partment of Administr	BE) or a CERTIFIED Disabled ation. If you have questions	
ACKNOWLEDGEMENT OF ANY ADDENDA	and/or DEVISIONS	and ACREEMENT TO	ALL TERMS: In signing	t this Did Diddor	
acknowledges and affirms that its Bid com revisions thereto. If awarded a contract, I RFB and any addenda or revisions thereto	nplies with all terms, Bidder shall comply	conditions and specif	fications of this RFB ar	nd any addenda, appendices or	
DEBARMENT AND SUSPENSION: In signir voluntarily excluded from eligibility by any			t been suspended, del	parred, declared ineligible or	
NON-COLLUSION: In signing this Bid, Bidder certifies it has not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other Bidder, competitor or potential competitor; that this Bid has not been knowingly disclosed prior to the opening of Bids to any other Bidder or competitor; that the above statement is accurate under penalty of perjury.					
Name of Authorized Company Representative	(Type or Print)	Title		Date	
Signature of Authorized Company Representa	tive Named Above	Phone	Fax	Email	

CHECKLIST FOR SUBMITTING A BID

Understanding the Request for Bid (RFB)

	Thoroughly read and review this Request for Bids and all attachments, appendices, addenda, and/or revisions.
	Submit any written questions to the Procurement Coordinator by the deadline provided in the Calendar of Events.
	Determine if the agency will hold a Bidders' meeting (see Section 3.7) and check the date provided in the Calendar of Events (see cover page). Know when and where the Bid is to be delivered.
Coı	mpleting Your Bid
	Complete the Cost Sheet(s) provided with the RFB. Make sure your prices and calculations are accurate. If required, provide a written statement of what volume of work or quantity or products your company can handle under the Bid requirements. Do not alter the format of the Cost Sheet. Complete the Vendor Information Form provided with the RFB. Complete the two (2) Vendor Reference Forms provided with the RFB. Assemble required data specification sheets for each appliance or product on which you are bidding. Complete and sign the Request for Bid sheet provided as the cover of this RFB package. This checklist is provided for the Bidder's convenience only and is not required to be submitted with the Bid package.
Sul	omitting Your Bid
	Prepare one set of original documents marked "Original" in the following order: 1. Signed Request for Bid Sheet (RFB cover page) 2. Vendor Information Form (Attachment 1) 3. Vendor Reference Form (Client) (Attachment 2A) 4. Vendor Reference Form (Financial) (Attachment 2B) 5. Cost Sheet(s) (Attachment 3) 6. Additional Information See Section 8. for details Make one photocopy of the complete set of original documents. Mark the photocopied set "Copy." Place the original and copied set of documents in a sealed package (envelope or box). Make sure the following information is clearly marked on the outside of the envelope or box: 1. Bidder's Name and Address 2. Request for Bid Title (See upper left hand box of RFB cover page) 3. Request for Bid Number (See upper left hand box of RFB cover page) 4. Bid Due Date (See upper left hand box of RFB cover page and Calendar of Events) Ensure the sealed package is delivered to the correct address before the Bid Due Date and time in the Calendar of Events. No emailed or faxed Bids are allowed.
If Y	ou are Chosen for a Contract Award:
	Be prepared to provide any documents required by the agency — such as certificates of insurance, licenses, contractor credentials, training certificates, IRS Form W-9 (Request for Taxpayer Identification Number) or Affirmative Action plan/exemption, Vendor Application Form (if not already an established Vendor), MBE and/or DBE certificates (if applicable), Asbestos O&M Certification for Field Staff, Lead Safe Company Certificate, Lead Safe Renovator Certifications for Field Staff, Safety Data Sheets (SDS), copy of written safety plan, (see Appendix A for more information).

1. INTRODUCTION

1.1 Scope

The purpose of this Request for Bids (RFB) is to provide interested parties with information needed to prepare and submit a Bid for the following:

Provide emergency furnace services as identified in this RFB. The bulk of services will occur primarily during the Heating Season (October 1 – May 15) but some emergency furnace services may be required outside of this time period (e.g., remainder of May and month of September

CR-Social Development Commission (SDC) intends to use the results of this process to award a contract(s) to provide the goods or services described in this RFB, except for items identified as Informational Pricing. A detailed description of the commodities and/or services to be provided by the Lowest Responsible Bidder(s) is contained in the Cost Sheet(s) and other parts of this RFB.

The SERVICE TERRITORY in which these services will be provided includes: City of Milwaukee

The Agency and the Contractor may negotiate pricing for specialized jobs or commodities on an asneeded basis when a specific emergency furnace replacement or repair is not covered by the specifications of this RFB. Alternatively, the Agency may bid out specialized jobs or commodities on an as-needed basis when a specific emergency furnace replacement or repair is not covered by the specifications of this RFB.

1.2 Procuring Agency

CR-Social Development Commission is a local administrative and executive weatherization service agency that works in conjunction with the State of Wisconsin Weatherization Assistance Program and Home Energy Plus (HE+) Furnace Program to provide residential weatherization and Emergency Furnace Services to eligible households. The State of Wisconsin Weatherization Assistance Program helps low-income residents reduce energy costs by decreasing home energy consumption through the installation of energy-saving measures and equipment. Through the HE+ Furnace Program – Emergency Furnace Services, 'no heat', inoperable and unsafe heating systems may be addressed for qualified customers.

1.3 Definitions

Words and terms in this RFB shall be given their ordinary and usual meanings, and all meanings shall be applicable to the singular and plural forms of the words and terms. For the purposes of this RFB, the following words and terms shall have the meanings indicated:

[&]quot;Agency" means CR-Social Development Commission.

[&]quot;Appeal" means a process whereby an aggrieved Bidder may appeal the denial of a Protest to the Administrator of the Division.

[&]quot;Authorized agent" means an entity authorized by the Agency to notify or direct the Contractor to initiate the service process.

[&]quot;Bid" or "Bid Document" means the complete response of a Bidder, including all required documentation, submitted on the approved forms and setting forth the Bidder's prices for providing the commodities and/or services described in the RFB.

[&]quot;Bidder" means any individual, company, corporation or other entity that responds to this RFB.

[&]quot;Calendar of Events" means the official schedule of events, deadlines and dates shown on the cover of this RFB.

[&]quot;Callback" means work required as a result of an inspection or complaint/concern.

[&]quot;Commodity" means the products, materials, supplies or equipment described in this RFB.

[&]quot;Contract" means a written agreement between the Agency and Contractor that covers the delivery of

work and/or commodities to be performed subsequent to this RFB.

- "Contractor" or "Vendor" means a Bidder that is awarded a Contract under this RFB.
- "Department" means the Wisconsin Department of Administration.
- **"Division"** means the Division of Energy, Housing and Community Resources (DEHCR), Wisconsin Department of Administration.
- **"DVB"** means a disabled veteran-owned business certified by the Wisconsin Department of Administration under Wis. Stats. s. 16.75(3m).
- **"Emergency Furnace Services"** means providing furnace services subject to emergency response time requirements as part of the HE+ Furnace Program.
- "Good Faith Dispute" means a contention by an Agency that goods delivered or services rendered were of a lessor quantity or quality than ordered or specified by contract, were faulty or were installed improperly; or any other reason giving cause for the withholding of payment by the agency until the dispute is settled.
- "Heating Season" means October 1 through May 15.
- "Home Energy Plus (HE+) Furnace Program Emergency Furnace Services" means the emergency furnace services that may assist a low-income homeowner when their furnace, boiler or other primary heating system breaks down and provides no heat, is inoperable or is unsafe. This program operates primarily during the heating season.
- "Informational Pricing" means prices provided for informational purposes in Attachment 3. Informational Pricing is not used to calculate the Grand Total or determine the Lowest Responsible Bidder. Items with informational pricing are outside the Scope of the resulting contract, and may or may not be ordered by Agency. The Agency reserves the right to negotiate prices and/or obtain the item from another Bidder.
- "Interested Bidder" means any individual, company, corporation or other entity that is included on a solicitation list, requested a Bid package or attended a Bidders' meeting (if a Bidders' meeting is scheduled as part of this RFB).
- **"Local WHEAP Agency"** means a county or its subcontractor that is the primary administering entity responsible for determining eligibility of the household prior to the provision of services identified in this RFB.
- **"Lowest Responsible Bidder"** means the bidder that submits the lowest dollar total appearing in combination with other elements of the RFB that best meets the requirements of the solicitation, and demonstrates their bid is responsive to technical and administrative requirements as requested.
- **"MBE"** means a minority business certified by the Wisconsin Department of Administration under §560.036 (2), Wis. Stats.
- **"Notification"** means the time at which the Agency or Authorized Agent contacts the Contractor to initiate the service process.
- "Prime Contractor" means the Contractor when it has engaged subcontractors to perform work under the Contract.
- **"Procurement Coordinator"** means the person identified on the cover of this RFB who has been designated by the Agency to manage this RFB.
- "Protest" means a process whereby an aggrieved Bidder may protest this RFB or the resulting Notice of Intent to Award to the Chief Executive Officer of the Agency.
- "Request for Bid (RFB)" means this document including appendices, addenda, revisions and/or attachments.
- "State" means the State of Wisconsin.
- "WHEAP" means the Wisconsin Home Energy Assistance Program managed by the Division.
- "Working Days" means each calendar day except Saturday, Sunday, and official Federal holidays. All other references to 'days' means calendar days. If 'working' is not included in the reference to number of days, the days are calendar days.

2. CONTRACT INFORMATION

2.1 Contract Term

The Contract shall be in effect for a period of One (1) Year from 10/01/2018. The Contract may be renewed for one (1), one (1) year period by mutual written consent.

2.2 Terms and Conditions

In addition to the terms, conditions and specifications contained in this RFB, the following documents govern this RFB and any resulting contracts:

Appendix A – Wisconsin Weatherization Assistance Program Terms and Conditions

Bidders shall accept the terms and conditions referenced above in their entirety or submit point-by-point exceptions along with proposed alternative or additional language for each exception. The Agency may reject a Bid if it deems the proposed alternative or additional language to be unacceptable. Submission of the Bidder's standard terms and conditions as a substitute for language in the terms and conditions is not a sufficient response to this requirement and may result in rejection of the Bid. Failure of the successful Bidder to accept the Agency's terms and conditions for a contract shall result in cancellation of the award.

2.3 Contract Modifications

Any alterations made to the Contract shall be rendered in writing and signed by both parties; no changes without such signed documentation shall be valid. No alterations outside of the general scope and intent of the original RFB or in excess of allowable and accepted price changes shall be made.

2.4 Entire Agreement

The Standard Terms and Conditions (Appendix A) shall apply to any Contract or order awarded as a result of this request except where special requirements are stated elsewhere in the request; in such cases, the special requirements shall apply. Further, the written Contract and/or order with referenced parts and attachments shall constitute the entire agreement and no other terms and conditions in any document, acceptance, or acknowledgment shall be effective or binding unless expressly agreed to in writing by the contracting authority.

3. BID PROCEDURES AND INSTRUCTIONS

3.1 Reasonable Accommodations

The Agency shall provide reasonable accommodations, including the provision of informational material in an alternative format, for individuals with disabilities upon request. If you need information in an alternative format or accommodations at a Bid opening or at a Bidder meeting, contact the Procurement Coordinator.

3.2 Bid Contents and Delivery Requirements

Bidders shall submit an original Bid document and one copy of the Bid document by the Bid Due Date in the Calendar of Events to:

USPS/Mailing Address

Terri Eckels-Nikoo, Procurement Coordinator CR-SDC OR
1730 W. North Ave
Milwaukee, Wisconsin 53205

Address for Hand-Delivery

Terri Eckels-Nikoo, Procurement Coordinator CR-SDC 1730 W. North Ave. Milwaukee, Wisconsin 53205 All Bids shall be packaged (envelope or box), sealed and show the following information on the outside of the package:

- 1. Bidder's Name and Address
- 2. Request for Bid Title (See upper left hand box of RFB cover page)
- 3. Request for Bid Number (See upper left hand box of RFB cover page)
- 4. Bid Due Date (See upper left hand box of RFB cover page and Calendar of Events)

Bids shall be date and time stamped at the office indicated above on or before the date and time Bids are due. Late Bids shall be rejected. Bids dated and time stamped in another office may be rejected. Bids that are not properly sealed may be rejected. Receipt of a Bid by the mail system does not constitute receipt of a Bid by the Agency. Any Bid that is inadvertently opened as a result of not being properly and/or clearly marked may be rejected. Bids shall be submitted separately and may not be included with sample packages or other Bids. Emailed or faxed Bids are not allowed.

3.3 Calendar of Events

The Calendar of Events provides important dates and times by which actions related to this RFB shall be completed. In the event that the Agency finds it necessary to change any of these dates and times, it shall provide written notification of such changes per Section 3.4, Communication with Bidders.

3.4 Communication with Bidders

In the event it becomes necessary to make changes to the Calendar of Events, provide additional clarifying data or information, revise any part of this RFB, or provide a record of questions and answers, the Procurement Coordinator shall send written notification, electronically or in hard copy, to all Interested Bidders.

3.5 Format of Bid

Bidders responding to this RFB shall submit the following materials:

- a) Signed Request for Bid Sheet: The Bid shall include the signed Request for Bid sheet provided as the cover of this RFB package. A Bid submitted in response to this RFB shall be signed by the person in the Bidder's organization who is responsible for decisions regarding prices offered in the Bid or by a person who has been authorized in writing to act as agent for the person responsible for the decision on prices.
- **b) Vendor Information Form** (Attachment 1)
- c) Vendor Reference Form (Client) (Attachment 2A)
- d) Vendor Reference Form (Financial) (Attachment 2B)
- **e) Cost Sheet** (Attachment 3) Provide cost information on the Cost Sheet(s) included in this RFB. All costs for furnishing the commodities and/or services, as set forth in the terms and conditions of this RFB, shall be included in the Bid. Please refer to Section 7. Cost Information, for information on bid pricing, capacity and price adjustments.
- **f) Additional Information**: Please refer to Section 8. Additional Information Requirements, for a listing of required additional documents.

The checklist included with this RFB is provided for the convenience of the Bidder. The Bidder is not required to submit the checklist with its Bid package.

3.6 Questions

Questions concerning this RFB shall be submitted in writing to the Procurement Coordinator on or before the Deadline for Submitting Written Questions provided in the Calendar of Events. Bidders are expected to raise any questions, exceptions or additions concerning the RFB document prior to this deadline. If a Bidder discovers any significant ambiguity, error, conflict, discrepancy, omission or other deficiency in this RFB, the Bidder shall immediately notify the Procurement Coordinator and request modification or clarification of the RFB document. All questions shall be recorded by the Agency. All questions and answers shall be provided per Section 3.4, Communication with Bidders.

3.7 Bidders' Meeting

The Agency will hold a public informational meeting for Bidders at the date and time provided in the Calendar of Events. The Bidders' meeting will be held at the following location:

CR-SDC 1730 West North Ave. Milwaukee, WI 53205

The Bidder's meeting is mandatory. Bidders will be required to register when attending the mandatory Bidders' meeting. Notwithstanding Section 3.4, a written record of questions asked and answered at the mandatory Bidder's meeting shall be created and sent electronically or in hard copy to only those Bidders that attend the mandatory Bidders' meeting. Only Bidders that attend the mandatory Bidders' meeting are permitted to submit a Bid; failure to attend the mandatory Bidders' meeting will result in rejection of a Bid.

3.8 Multiple Bids

Multiple Bids from a Bidder are permitted. Each Bid shall conform fully to the requirements of this RFB. Each Bid shall be separately submitted and labeled as Bid #1, Bid #2, etc., on each page included in the response.

Each Bid shall offer different manufacturers and/or models of products for items identified in the RFB. Multiple Bids identifying the same manufacturers and/or models of products will be deemed non-responsive, and only the lowest Bid price by the Bidder will be deemed the Lowest Responsible Bid.

If the Agency awards multiple contracts, a Bidder may receive only one award based upon its Lowest Responsible Bid. A Bidder's succeeding responsible Bids will be rejected for the purposes of awarding to multiple vendors.

3.9 Incurring Costs

Neither the Agency nor the State of Wisconsin is liable for any cost incurred by a Bidder for responding to this RFB.

3.10 Contact with the Agency

From the date of issuance of this RFB until a Letter of Intent to Award a Contract is issued, all contacts with the Agency regarding this RFB shall be made only through the Procurement Coordinator. Any information provided by a source other than the Procurement Coordinator shall be deemed unofficial and nonbinding. Violation of this condition may be considered sufficient cause for rejection of a Bid, irrespective of any other considerations.

3.11 News Releases

News releases pertaining to the RFB or to the acceptance, rejection or evaluation of Bids shall not be

made without the prior written approval of the Agency and the State of Wisconsin.

4. BID ACCEPTANCE, VERIFICATION AND AWARD

4.1 Bid Opening

Bids will be opened on the Bid Opening date and time specified in the Calendar of Events. Names of the Bidders may be read aloud at the Bid opening. The Bid opening will be held at the following location:

CR-SDC

1730 West North Ave. Milwaukee, WI 53205

4.2 Bid Review and Verification

The Agency shall review each Bid to verify that it meets all specified requirements in this RFB. This verification may include requesting reports on the Bidder's financial stability, conducting demonstrations of the Bidder's proposed products and/or service, and reviewing results of past awards to the Bidder by the Agency.

- a) Capability and Performance History: Before the award of any contract(s), the Agency shall be satisfied that the bidder has sufficient capability and performance history to perform the work described in the RFB. It is the Bidder's responsibility to provide information to the RFB Procurement Coordinator that demonstrates these qualifications by submitting clear, concise and complete documentation and thorough references.
- **b) References**: Bidders shall provide the information required in the vendor reference forms by supplying with their Bid:
 - 1. A client list of no less than three (3) and no more than six (6) references for which similar products and/or services have been provided during the past three (3) years. See Attachment 2A.
 - 2. Contact information for no less than one (1) and no more than four (4) credit reference(s). See Attachment 2B.

If contacted, information received from such references may be used to determine whether the Bidder meets the State's requirements.

4.3 Bid Acceptance

Bids that do not comply with instructions contained in this RFB may be rejected by the Agency. The Agency reserves the right to waive a particular specification if no Bidder meets that specification. The Agency may request reports on a Bidder's financial stability. The Agency may reject a Bid if the Bidder is determined to have inadequate financial means to provide the product or service being bid. The Agency retains the right to accept or reject any or all Bids, or accept or reject any part of a Bid, deemed to be in the best interest of the Agency and the State of Wisconsin. The Agency shall be the sole judge as to compliance with the instructions contained in this RFB. Bids shall be firm for acceptance for ninety (90) days from date of Bid opening unless otherwise noted. A Bidder may withdraw its Bid at any time prior to the issuance of an Intent to Award.

4.4 Minority Business Enterprises and Disabled Veteran Businesses

The Agency, in its sole discretion, may provide up to a five percent (5%) Bid preference to certified Minority Business Enterprises and Disabled Veteran Businesses in accordance with §16.75(3m), Wis. Stats. See https://wisdp.wi.gov/ for information on these certifications.

4.5 Method of Award

The award shall be made in the best interest of the Agency, as determined by the Agency, to the Lowest Responsible Bidder(s) that meet(s) the requirements listed in this RFB. In the interest in promoting small business economic development, the Agency intends to make multiple awards based on the capacity of each Vendor beginning with the Lowest Responsible Bidder(s). In such case, the next-lowest bidder(s) will also be given the opportunity to be an awardee at their bid price, until the needs of the Agency are met. Vendors must provide a written statement of the volume (quantity) of work that the Vendor can successfully perform and meet contract conditions (see cost sheet). Bid's will be placed into two (2) separate rankings based on Attachment 3 Cost Sheets, grand total(s) for both forced air heating systems and boilers, certified MBE's/DBE's are given a five percent (5%) bid preference to their grand totals. The award(s) will be granted based on the Lowest Responsible Bidder(s) grand total(s) for forced air heating systems and/or boilers with subsequent awards based on the ranking until the needs of the Agency are met. Work scopes for individual projects under the contract award will be distributed based on the capacity and on-going performance of each Vendor.

4.6 Intent to Award a Contract

Any Bidders that submit a Bid shall be notified in writing of the Agency's Intent to Award a Contract as a result of this RFB. After the notice of intent to award is issued, the public may inspect and copy RFB records during the Agency's normal business hours. Please contact the Agency in advance of Bid inspections to ensure the availability of space and staff.

4.7 Protest and Appeal Procedures

A written notice of a party's intent to protest an Award(s) (Intent to Protest) shall be received by the Agency's Chief Executive Officer no later than five (5) working days after issuance of the Intent to Award. A written protest shall be received by the Agency no later than ten (10) working days after issuance of the Intent to Award. Notices of an Intent to Protest and Protests shall be made in writing. Protests shall be as specific as possible and identify statutes, Wisconsin Administrative Code provisions, Wisconsin Weatherization Assistance Program policies and/or Department of Energy regulations that are alleged to have been violated. An Intent to Protest or Protest shall be submitted in writing to:

USPS Address

George Hinton, CEO CR-Social Development Commission 1730 W. North Avenue Milwaukee, Wisconsin 53205

Address for Hand-Delivery

George Hinton, CEO CR-Social Development Commission 1730 W. North Avenue Milwaukee, Wisconsin 53205

The Chief Executive Officer's decision regarding a Protest may be appealed (Appeal) in writing to the Wisconsin Division of Energy, Housing and Community Relations' Administrator within five (5) working days of issuance of the decision, with a copy of such Appeal filed with the Agency. Appeals shall be as specific as possible and identify statutes, Wisconsin Administrative Code provisions, Wisconsin Weatherization Assistance Program policies and/or Department of Energy regulations that are alleged to have been violated. All Protest procedures with the Agency shall be exhausted before any Appeal can be made to the Division. An Appeal shall be submitted in writing to:

USPS Address

Division Administrator DEHCR Department of Administration PO Box 7970 Madison WI 53707-7970

Common Carrier Address

Division Administrator
DEHCR
Department of Administration
101 East Wilson Street, Sixth Floor
Madison WI 53702

5. TECHNICAL PERFORMANCE REQUIREMENTS

- **5.1.** All commodities and services purchased through this RFB shall meet standards and specifications set forth in the Wisconsin Weatherization Field Guide and/or Wisconsin Weatherization Program Manual. Relevant portions of the Guide and/or Manual are identified in this RFB as Attachment 4.
- **5.2.** All proposed commodities shall be capable of performing all operations in accordance with manufacturer's advertised data sheets and technical publications. Please refer to Section 8. Additional Information Requirements, for a listing of required data sheets and technical publications that shall be submitted with this bid.
- **5.3.** When a commodity is required to meet the current Energy Star® standard it shall be labeled and listed on the Energy Star® website (http://www.energystar.gov/), and the following requirements apply:
 - a) It shall conform to the set of criteria used by ENERGY STAR® to rate products.
 - **b)** Products listed on the Energy Star® website are considered to meet current Energy Star® standards.
 - c) Products shall conform to the standards scheduled to be in effect on the bid due date of the contract.
 - **d)** If the RFB requires a product that is not readily available, a bidder shall notify the Procurement Coordinator immediately (see section 3.6).
 - **e)** If a standard changes during the life of the contract and a product change is required, section 7 shall apply and a price adjustment may be negotiated.
- **5.4.** All items bid shall be the manufacturer's current products and materials shall be first quality. Items that are used, floor models or demonstrators, obsolete or discontinued are unacceptable.
- **5.5.** The existing unit and all debris shall be removed from the job site and properly disposed of when a heating unit is replaced.
- **5.6.** The Contractor shall have available the following minimum heating system analysis equipment for performance of this contract:
 - a) Combustion analyzer
 - **b**) CO analyzer
 - c) Draft gauge or manometer
 - **d)** Heat exchanger leakage testing equipment
 - e) Ammeter (shall be sensitive enough to measure thermostat anticipators)
 - f) Gas leak detector and non-corrosive gas leak detection fluid
- 5.7. The Contractor is required to have available a digital camera capable of meeting the following requirement for photographs: Photographs shall be provided electronically to the Agency that document furnace conditions existing prior to the provision of services. For a heating system replacement, photos should include manufacturer's nameplate, furnace conditions and any problem(s). If photographs are required for repair services, it will be indicated in Attachment 5.
- **5.8.** A completed **Heating System Checklist** (by heating system type) shall be provided to the Agency for a heating system replacement. The checklist is available at: http://homeenergyplus.wi.gov/category.asp?linkcatid=494&linkid=122&locid=25 (under Field

Forms, Required Forms). <u>Note that Emergency Furnace repair services do not require the "Heating System Repair or Clean and Tune Check List"</u>, unless directed otherwise by the Agency.

5.9. A copy of **sizing calculation documentation** for each replacement shall be provided to the Agency. To meet the requirements, the sizing calculations need to include a list of building components and the R-value (or u-value) used for each. In addition, the calculations need to include design temperatures, exposure, air changes per hour and other factors required in a Manual J calculation.

6. CONTRACTOR PERFORMANCE REQUIREMENTS

6.1. Prime Contractor

The Prime Contractor shall be responsible for contract performance when subcontractors are used. When subcontractors are used, they shall abide by the terms and conditions of the contract. If subcontractors are used, the Contractor shall clearly explain their participation. The Agency shall reserve the right to approve the use of subcontractors in the fulfillment of the contract. (See Appendix A, Part A, Assignment).

6.2. Work Order, Work Flow and Job Completion

- a) The Contractor is required to have a communication system (e.g., telephone, email, text messaging) that will accept notification of a work order under this RFB seven days a week, 24 hours per day during the heating season.
- **b)** The Contractor is responsible for contacting and arranging with the customer to provide any services that are part of performance under this contract.
- c) The Contractor shall complete the required work with the time-frames specified in Section 6.10 Response Time, unless otherwise agreed to in writing by the agency.
- **d**) The Contractor shall notify the Agency of job completion within (2) hours by email, fax, telephone or personal delivery to the Agency.
- e) Work Flow. During an Agency's normal business hours, the Contractor shall provide cost estimates and request approval to proceed with repairs or replacement as specified by the Agency. Outside of normal business hours, the Contractor shall contact designated agency staff via cellular telephone, text message or email, it is the Contractor's responsibility to continue communication until a response has been established.
- f) Repairs. A repair may be appropriate depending on the repair estimate and the age, condition and efficiency of the furnace/heating unit. A repair shall be completed no later than within the initial 72 hours from notification. If the time to complete the repair is anticipated to exceed this time limit, the Contractor shall notify the Agency immediately.
- g) Replacement. If the furnace/heating unit is non-repairable based on program standards, the contractor shall provide the Agency with an estimated total cost for replacement. The estimate shall identify any collateral work necessary and include the itemized cost for any collateral work not covered in the RFB. A replacement shall be completed within the initial 72 hours from notification. If the time to complete the replacement is anticipated to exceed this time limit, the Contractor shall notify the Agency immediately.
- h) For each replacement, a signed, completed Home Energy Plus Furnace Program

Agreement form shall be provided to the Agency prior to Agency approval for replacement. (Also see 6.8).

i) If the repair or replacement involves work that will require a Department of Health Services (DHS) certified renovator and/or involves asbestos abatement, see section 6.9.

6.3. Invoices, Required Documentation and Payment

- a) The Contractor shall ensure that a valid invoice is received by the Agency within (3) days of job completion. A valid invoice shall include all required forms and other required information, provide cost information as required and shall be submitted after job completion. Failure to provide all required information creates an exception to prompt payment (good faith dispute).
- **b**) Invoices presented for payment shall be submitted in accordance with Agency instructions. See Attachment 5.
- c) The Agency shall make payment to the Contractor within thirty (30) days of receipt of a valid invoice providing goods and/or services have been delivered, installed and accepted as specified.
- **d)** Any callback work shall be satisfactorily addressed before issuance of payment.
- **e**) A good faith dispute creates an exception to prompt payment. The Agency shall provide written notification to the Contractor.
- f) The Contractor shall provide the Agency with a copy of any and all documentation regarding problems or issues regarding job site performance, commodity performance and/or client issues.
- g) The Contractor shall not, under any circumstances, seek payment from the owner or occupant of the premises improved under the Contract. The only recourse for payment for the work performed under the Contract is through the Agency.

6.4. Lien Waivers, Lien Notice Action and Recourse for Payment

By agreeing to perform weatherization work the Vendor agrees to the following terms and agrees to pass along the following requirements to their suppliers and any subcontractors.

- a) The Vendor agrees that they will not, under any circumstances, seek payment from the owner or occupant of the premises improved.
- **b**) The Vendor shall not file, suffer or permit any lien or other encumbrance of record as a claim against any site of a weatherization project in recognition that the only recourse for payment is from the weatherization agency.
- c) Any lien notice action by a Vendor, and/or any of their subcontractors and/or material suppliers, against a property owner shall be considered non-performance by the terms and conditions of this contract, and the Vendor may be removed from the statewide weatherization agency bidder's list for a period of 2 to 5 years, as may any subcontractors and suppliers that take such action.
- **d) PAYMENTS OWED BY VENDOR:** By engaging in a contract with the weatherization agency, the Vendor agrees that if they do not pay for materials and labor taking place through this weatherization contract, the weatherization agency has the option to use payments owed to the Vendor to pay such subcontractors and suppliers.

- e) The Agency reserves the right to cancel this Contract in whole or in part without penalty, upon written notice to the Contractor if any lien notice action is taken by the Contractor, and/or any of their subcontractors and/or material suppliers, against a property owner.
- f) Signed lien waivers for each individual work location/property are required (when the property to receive the improvement is identified) from all parties providing any labor and materials, including the Vendor. When lien waivers are required, the Vendor agrees to inform any party supplying labor and/or material to an identified property, prior to engaging such parties in providing weatherization services, that lien waivers are required in order for the Vendor to invoice the weatherization agency for the job. This applies whenever a specific property or properties to be improved is identified to the Vendor and any of their suppliers and/or subcontractors.

6.5. Warranties and Repairs

- a) The Contractor shall provide the manufacturer's standard warranties on all items. In addition, a one (1) year service contract on commodities and labor is required for all heating system replacements performed under this RFB. The one (1) year service contract shall commence on the date of installation completion or completion of any work required as a result of the installation inspection.
- b) The Contractor shall furnish all warranty repairs or provide alternate source of local warranty repair at no extra cost to the Agency, the State of Wisconsin or the owner or occupant of the premises. Warranty repairs shall be performed within (10) days of notification.
- c) The Contractor shall, at the direction of the Agency, correct or have corrected any work determined by the Agency or the State of Wisconsin to be substandard. Such corrective work shall be at no extra cost to the Agency, the State of Wisconsin or the owner or occupant of the premises. Corrective work shall be performed within (3) days of notification.

6.6. Failure to Perform

The Contract may be terminated for the Contractor's failure to comply with any of the specifications or conditions of the RFB or the Contract.

If the Contractor fails to provide commodities or services at a level of capacity (either volume or quantity) or quality acceptable to the Agency, the Agency may, at its discretion, (1) direct a corrective action plan, (2) suspend the Contract pending resolution of quality problems or (3) terminate the Contract for cause. If the Contract is terminated for cause, the Contractor may be removed from the statewide weatherization agency bidder's list for a period of two to five years.

Failure to comply with Affirmative Action/Non-Discrimination conditions (Appendix A) may result in the Contractor becoming declared an "ineligible" contractor with the State (§16.765, Wis. Stats.), termination of the contract, or withholding of payment.

In the event a Contractor is (1) not able to meet the capacity (either volume or quantity) requirements of the Agency, (2) suspended or (3) terminated, the Agency may award a Contract under this RFB to the next Lowest Responsible Bidder or complete an alternate procurement.

6.7. Permits, Insurance and Other Requirements

- a) The Contractor shall meet the insurance requirements specified in the terms and conditions. In addition, the Contractor shall provide a certificate of insurance listing CR-SDC as additional insured. Certificates of insurance shall be provided to the Agency within five (5) working days of Notice of Intent to Award.
- b) For all services contracts with the potential to exceed \$149,999 annually and where wholesaler or subcontractor partnerships will be utilized to deliver services, a payment bond is required on the part of the contractor in the amount of \$150,000 or the anticipated amount of the contract, whichever is greater. The anticipated amount of the contract shall be based upon the historical spend of the Agency, adjusted for any conditions in the best judgment of the Agency. The contractor shall provide proof of payment bond within thirty (30) business days of the receipt of the award letter. No work shall be awarded to a contractor until this proof is provided and verified by the local agency. A payment bond is one executed in connection with a contract to ensure payment to all wholesalers and subcontractors performing work under the contract.
- c) The Contractor shall complete all required forms and return same to the Agency attached to the invoice. Forms not included in the initial RFB Package will be forwarded to awardees as documentation changes occur.
- d) Following the intent to award notification, the Contractor shall provide to the agency it's IRS Form W-9 (Request for Taxpayer Identification Number and Certification) Vendor Application Form (If not already an established Vendor) Affirmative Action Plan / Exemption, DBE and/or MBE Certificate (if appl.), City of Milwaukee Contractor's License, Asbestos O&M Certification for field staff, Lead Safe Company Certificate, Lead Safe Renovator Certifications for field staff, Safety Data Sheets, copy of Written Safety Plan, Certificate of Insurance (see Appendix A for more information).
- e) Any change in material of equal or superior quality or installation standards shall be specifically approved in writing by the Agency. Any deviation or exceptions to the terms, conditions and/or specifications shall be submitted in writing and approved by the Agency with a signed change order. No minimum fee is allowed on change orders.
- f) The Contractor is responsible for obtaining required state or local licenses and permits to perform work identified in this RFB. The Contractor shall be reimbursed for the actual cost of the permit only (no processing fee is allowed to be added on to the invoice). (Do not include estimated permit costs when calculating bid price for each replacement.)
- **g**) The Contractor shall participate in any training required by the Agency. Depending upon the cost of such training, a retention agreement may be required.
- h) If performance of the work provided through this RFB requires training and/or certification, the Contractor shall be required to demonstrate compliance as directed by the Agency within (60) sixty days of a signed contract award. Performance of work under this contract requires the following training and/or certifications: Contractor is a Lead Safe Company, field staff to be certified as Lead Renovators and all field staff to have up to date training in the Asbestos O&M discipline.

6.8. Customer Education and Other Contractor Requirements

- a) The Contractor shall review proper operation and maintenance of all appliances (including filter replacement on forced air units) with the customer upon completion of the installation.
- **b**) The Contractor shall place all installation and warranty information packets and material with the installed appliance.
- c) The Contractor shall affix a clearly visible sticker identifying the Contractor's name, phone number and date of installation/service on each new or repaired mechanical appliance (e.g., furnace, boiler).
- d) When a replacement is required, it is the Contractor's responsibility to provide the **Home Energy Plus Furnace Program Agreement** form to the customer and to obtain a completed, signed form at the time of the assessment or estimate. Forms are available in English, Spanish and Hmong and the Contractor shall have all types available during an assessment. Forms are available at this link (under Furnace Program Documents): http://homeenergyplus.wi.gov/category.asp?linkcatid=566&linkid=122&locid=25

6.9. Health and Safety

- **a)** The Contractor shall comply with all applicable federal, state and local regulations affecting worker and customer safety.
- b) If asbestos will be disturbed when replacing a heating unit, the Contractor shall ensure that required protocols are followed (Appendix A, Part B applies as follows: Weatherization Work –15; Emergency Furnace Services–16). When such work is required, the Contractor shall follow the Agencies Asbestos Contractor Protocol included in the Bid Package.
- c) If the work is performed in a pre-1978 dwelling and more than six square feet of interior paint per room will be disturbed, more than twenty square feet of exterior paint will be disturbed, and any time that windows are replaced or demolished, the contractor shall contact the Agency to receive direction. Agency requires on-site Contractor to provide proof that DHS certified lead safe renovator requirements are met. Such work shall comply with DHS Chapter 163 requirements. Appendix A Part B, 14.0 and 14.2 apply; 14.1 does not apply.

6.10. Response Time

- a) The parameters for response time are very specific and shall be adhered to because of the emergency nature of the program. Unless arrangements are made in advance for unusual situations and approved by the Agency, the Contractor risks suspension or termination if response times are not met.
- b) The start time for response time begins with notification by the Agency or authorized agent.
- c) Assessments shall be completed within 24 hours of notification. There is no exception to this requirement. If the Contractor cannot complete an assessment within 24 hours, the Agency shall be notified immediately. The Agency may choose to utilize another Contractor in such situations. If the inability to complete an assessment within 24 hours is deemed a contract performance issue, the contract may be terminated.

- d) All required work assessment, and repair or replacement shall be completed within a total of 72 hours from notification, unless an exception is granted to extend the time for repair or replacement. If the Contractor determines that the repair or replacement will require an exception, it shall notify the Agency immediately. The Agency may choose to utilize another Contractor in such situations.
- e) If an exception is granted, the total number of days for completion of the required work shall not exceed seven (7) days from notification unless other arrangements have been made for unusual situations.
- f) The exception for unusual situations will apply only in situations in which there is no threat to the health or safety of the household or the household has been provided with temporary heat, or has been relocated. All exceptions shall be approved by the Agency. In such a case, the Agency may direct the Contractor to provide temporary heat.

6.11. Assessments

- **a)** The Contractor shall complete an assessment within 24 hours of notification by the Agency or authorized agent. The Contractor shall notify the Agency immediately if there is a need to supply a means of temporary heat at the time of the on-site assessment.
- b) The cost for assessment shall be included in the Bid price for repair/replacement. In cases where the assessment results in no recommended repair or replacement, the Contractor may invoice for the costs of the assessment at a rate negotiated with the Agency, attachment 3 Cost Sheets.
- c) If the Contractor observes the dwelling unit is ineligible for emergency furnace services, the Contractor shall cease the provision of services and immediately contact the Agency or authorized agent for additional instruction.

7. COST INFORMATION

7.1. Bid Pricing

- a) The Bidder shall complete the Cost Sheets (Attachment 3) following the instructions provided on the Cost Sheets. Failure to submit unit pricing as instructed for any item listed in the Cost Sheets shall result in rejection of the Bid. Failure to submit required capacity information (volume or quantity) as instructed may result in rejection of the Bid. Do not alter the format of the Cost Sheets or it may result in rejection of the Bid.
- b) The Bidder shall submit one fixed price per unit for the entire Contract period. If the Contract is renewed, the Contractor shall hold the fixed price per unit during the renewal period. Unit prices shown on the Bid or Contract shall be the price per unit of sale (e.g., gal., doz., ea.) as stated in the RFB or Contract. Price adjustments may be authorized by the Agency under limited circumstances (see Paragraph 7.3 Price Adjustments).

- c) Bidders may not impose a markup or service charge on licenses or permits. Do not include the price of permits or payment bonds in the unit bid price, as Contractor is reimbursed for actual cost through the invoice process.
- **d)** Bid prices include delivery of any installed products, installation, clean-up and removal of replaced product(s), and labor/material cost for any other tasks/items identified in the RFB or Attachments, unless specifically excluded.

7.2. Capacity

If required in the RFB cost sheet(s), the Bidder shall identify in writing as part of its Bid the volume of work and/or quantity of products it is able to handle in accordance with the Bid requirements.

7.3. Price Adjustments

The Contractor may lower a price at any time due to general market conditions or other considerations. Prices shall not be subject to any increase for ninety (90) calendar days from the date of the award. Any price increase proposed shall be submitted in writing to the Agency thirty (30) calendar days before the proposed effective date of the price increase, and shall be limited to fully documented cost increases to the contractor which are demonstrated to be industry wide. The Agency shall be the sole judge of whether a price increase shall be permitted, and shall either grant or reject the proposed increase in writing. The Agency reserves the right to reject any price increase that is deemed to be excessive.

8. ADDITIONAL INFORMATION REQUIREMENTS

- **8.1.** Per Section 3.5 f), the Bidder shall include the following additional documents as part of its Bid package:
- Product data specification sheets are required to be submitted. Note that when a product is required to
 meet the current Energy Star® standard, the product shall be listed on the Energy
 Star Website. (Also see section 5.3).
- A written list of subcontractors and suppliers, if any, providing materials and/or labor for services. The list shall include the company name, address, contact information, and a description of the materials and/or services that will be provided.

Attachment 1 - Vendor Information Form (rev. 02.03.2014)

AG	ENCY NAME _	CR-Social Development Commission		RFB# 08-3118 HE+ Furnace Program
1.	BIDDING / PR	OPOSING COMPANY NAME	FAX	
	Phone		Toll Free	Phono
	Address			
	City		State	Zip + 4
2.	Name the pe Name	rson we may contact in the event ther	e are questio Title	ns about your bid / proposal.
	Phone		Toll Fre	e Phone
	FAX			
	Address			
	City		State	Zip + 4
3.	affirmative ad	allation contracts only: Any Vendor/C ction information to the Agency. Pleas on responsible for affirmative action in	se name the F	arded over \$50,000 on this contract must submit Personnel / Human Resource and Development y to contact about this plan.
	Phone		Toll Fre	e Phone
	FAX			
	Address			
	City		State	Zip + 4
4.		ess where Agency purchase orders ar orders and billings.	e to be maile	d and person the Agency may contact
	Phone		Toll Fre	e Phone
	FAX			
	Address			
	City		State	Zip + 4
	<i>,</i>			

Attachment 2A - Vendor Reference Form (Client) (rev. 11.17.2011)

References for Bidder/Vendor:						
(3) years for three (3) or more	installations	or contracts	with requiren	nents similar t	ed/provided within the past three to those included in this RFB. If a formation for such parties.
Product(s)/Service (describe)	e(s)					
#1 Company Name	e					
Address (include Zi	p + 4)					
Contact Person					Phone No.	
Product(s)/Service (describe)	e(s)					
#2 Company Name	9					
Address (include Zi	p + 4)					
Contact Person					Phone No.	
Product(s)/Service (describe)	e(s)					
#3 Company Name	•					
Address (include Zi	p + 4)					
Contact Person					Phone No	
Product(s)/Service (describe)	e(s)					
#4 Company Name	9					
Address (include Zi	p + 4)					
Contact Person					Phone No	
Product(s)/Service (describe)	e(s)					
#5 Company Name	9					
Address (include Zi	p + 4)					
Contact Person					Phone No	

Attachment 2B - Vendor Reference Form (Financial) (rev. 11.17.2011)

RFB # 08-3118 HE+ Furnace Program

AGENCY NAME CR-Social Development Commission

Description

References for Bidder/Vendor: Financial information: Provide contact information for credit reference(s) (financial institution, equipment wholesaler, etc.) that may be contacted to verify financial stability. **#1 Company Name** Address (include Zip + 4) Phone No. Contact Person Description #2 Company Name Address (include Zip + 4) Phone No. Contact Person Description **#3 Company Name** Address (include Zip + 4) Phone No Contact Person Description #4 Company Name Address (include Zip + 4) Phone No **Contact Person**

Attachment 4 - RFB# 08-3118 HE+ Furnace Program

Technical Specifications for Heating System Work for the Home Energy Plus (HE+) Furnace Programs

This document contains the standards for heating system work performed as part of the Wisconsin Weatherization Program and the HE+ Furnace Program (including Emergency Furnace services). It is based, in part, on the Wisconsin Weatherization Field Guide, chapters 3 and 7, and applicable requirements from the Wisconsin Weatherization Program Manual.

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1. INTRODUCTION

The primary emphasis of the following sections is on the repair or replacement of heating systems and general technical specifications. The decision to repair versus replace the system is based on other policies and is not included in this document.

Some standards differ between heating-system work completed as part of a weatherization job and work completed within the HE+ Furnace Program (HE+FP) Non-Emergency and Emergency Furnace services (in which the primary emphasis is to address a "no-heat" or unsafe heat situation). Where standards differ, they are identified as "**HE+FP EXCEPTION(S)**" at the end of each section. All of the Exceptions apply only to the HE+ Furnace Program – Non-Emergency and Emergency Furnace services to HE+ Furnace Program – Non-Emergency and Emergency Furnace services will be referred to as **HE+ Furnace Program services**.

References to Chapter 3 refer to the Weatherization Field Guide, which is available at: http://homeenergyplus.wi.gov/category.asp?linkcatid=494&linkid=122&locid=25

The **heating system replacement check lists** referred to in this document are available at: http://homeenergyplus.wi.gov/category.asp?linkcatid=494&linkid=122&locid=25 (under Field Forms, Required Forms). The most current copy is required. Suppliers and installers should check the site at the beginning of each heating season, and regularly during the heating season to check for updates. Note that the "Heating System Repair or Clean and Tune Check List" is required for weatherization jobs that do not involved a system replacement, but not for HE+ Furnace Program work.

A. As part of every assessment that results in repair or replacement:

- 1. Assess all heating systems for safety. Leak-testing of all gas piping is required.
- 2. A qualified professional shall complete all mechanical-systems work. Contractors providing services shall be licensed and/or registered to provide those services as required by the authority having jurisdiction at the address where work is completed.

B. Leak-Testing Gas Piping

Natural gas and propane piping systems may leak at their joints and valves. Find gas leaks with an electronic combustible-gas detector, often called a "gas sniffer". A gas sniffer will find all significant gas leaks if used carefully. Remember that natural gas rises from a leak and propane falls, so position the sensor accordingly.

- 1. Check all valves and joints with the gas sniffer.
- 2. If the sniffer detects a leak, verify the leak with a non-corrosive bubbling liquid designed for finding gas leaks.
- 3. Repair all gas leaks verified with bubbling liquid.
- 4. Replace kinked or corroded flexible gas connectors.
- 5. Replace spring style gas valves with ball style gas valves, if a valve leak is detected and verified with test fluid.

C. Heating-System Sizing Requirements

Install properly sized units following REScheck®, ACCA Manual J or equivalent industry-accepted sizing procedures. Base the heat load calculations on planned post-weatherization conditions. The Agency shall provide the post-weatherization condition information to the Contractor.

Document the heat-load calculations, and provide a copy of the sizing calculations to the Agency.

HE+FP EXCEPTION: For an HE+ Furnace Program job, the Contractor shall size the new heating system based upon existing conditions, unless directed otherwise by the Agency.

D. Specifications

The specifications in Table 1 apply to all replacement heating systems except wood-burning units. The minimum efficiency standards as listed in the AHRI Directory of Certified Product Performance (http://www.ahridirectory.org/ahridirectory/pages/home.aspx) apply as listed below.

Table 1 Required Annual Fuel-Utilization Efficiency				
Replacement heating unit				
Natural Gas/LP Furnaces	≥ 95%	Yes	Condensing, sealed combustion.	
Oil Furnaces	≥ 83%	Yes		
Oil Boilers	≥ 83%	Yes		
Gas Boilers - High Efficiency	≥ 90%	Yes	Condensing, sealed combustion, modulating boiler.	
Gas Boilers - Standard Efficiency	≥ 84%	Yes	Allowed only when a high-efficiency boiler installation is not possible.	
Manufactured housing – Natural Gas/LP Furnaces	≥ 95%	Yes	Condensing, sealed combustion; shall fit footprint of existing system; furnace closet door shall close fully.	
Manufactured housing – Oil	≥ 79%	Yes	Shall fit footprint of existing system, and existing furnace closet door shall close fully.	
Direct Vent Gas Space Heaters	≥ 80%	Yes	Air circulating fan required. Electronic Intermittent Pilot or Electric Ignition required; no standing pilot lights. No vent-free units	
"B" Vent/Inside Wall Gas Space Heaters	≥ 75%	Yes	Air circulating fan required. Electronic Intermittent Pilot or Electric Ignition required; no standing pilot lights. No vent-free units	
Condensing Gas Space Heaters	≥ 90%	Yes	Installer shall implement a means to drain condensate (or deliver condensate to an approved drain). An evaporator pan is not an acceptable condensate management system. Air circulating fan required. Electronic Intermittent Pilot or Electric Ignition required. No standing pilot lights. No vent free units	
Oil Space Heaters	NA	No	Air circulating fan required.	

- All replacement heating systems for manufactured housing shall be rated for manufactured housing.
- Gas-Fired Furnaces shall conform to ANSI Z21.47–1990 with Addendum Z21.47a–1990 and Z21.47b–1992. Oil Fired Furnaces shall conform to UL4 727, Eighth Edition, 1994 and NFPA 31-2001.

2. GENERAL HEATING SYSTEM REPLACEMENT

A. General Heating System Replacement — All Types

- 1. Replace heating systems for health and safety reasons when the heating unit is totally disabled or is in a life-threatening condition.
- 2. Provide photographs to the Agency to document the furnace conditions that existed prior to the provision of services. The photographs shall include manufacturer's nameplate, furnace conditions, and any problem(s).
- 3. Install new heating appliances to manufacturer's specifications (per manufacturer's instructions; PMI) following all applicable local, state and national codes.
- 4. Assess all heating systems for safety. Monitor ambient CO levels during combustion and draft testing. An ambient CO level above 35 ppm is a safety hazard cease testing immediately. The combustion appliance zone (CAZ) should be ventilated before the resumption of testing and diagnosis of CO problems.
- 5. Test the gas-piping system for leaks, following the protocol in Section 1(B).
- 6. Use existing distribution system and fuel supply line to the greatest extent possible, except where they present a hazard.
- 7. Properly remove and dispose of existing unit.
- 8. Install the replacement furnace to a dedicated electrical circuit rated or fused to match the amperage of the new system's requirements for overcurrent protection.
- 9. Install condensate tubing or piping, or a condensate pump, where needed to reach an appropriate drain (not a sump). Condensate pipes generally may drain to 1) The laundry stand pipe; 2) A new standpipe, indirect or local waste pipe; or 3) A floor drain, when the condensate line can be properly secured to the drain grate and does not pose a tripping hazard to the occupants. Installing a "trip strip", with the customer's approval, may be useful to prevent occupants from tripping over the piping. All installations require an air break. Condensate lines cannot be drilled directly into any drain pipe. For more information, see Wisconsin Safety and Professional Standards (SPS), 382.33. Local jurisdictions may vary on acceptable options.
- 10. Condensate pumps may be installed using an existing (non-GFCI) receptacle accessible without an extension cord, a new GFCI receptacle installed as part of the work, or directly wired per manufacturer's recommendations.
- 11. Seal openings in chimneys where natural-draft appliances are eliminated. Seal shall be air tight. Indicate with a written notice on the chimney, where sealed, that the chimney is no longer in use.
- 12. If asbestos abatement is necessary when replacing a heating unit, required protocols shall be followed by appropriately trained and/or certified persons (see OSHA requirements and Department of Health Services regulations in DHS 159, http://www.dhs.wisconsin.gov/asbestos/).
- 13. If the work is performed in a pre-1978 dwelling and more than six square feet of interior paint per room will be disturbed, or more than 20 square feet of exterior paint will be disturbed, or any windows are to be replaced or demolished, such work shall comply with DHS Chapter 163 requirements.
- 14. Provide an owner's manual with heating-system replacements. Attach the manual to or near the heating system for repeated access.
- 15. Provide customers with in-home operation and maintenance instructions and a review of safety precautions.
- 16. Affix to the heating unit a tag, displayed prominently, that identifies who the customer should call for service. The tag information shall have the name, address and telephone number of the service organization.

HE+ FP EXCEPTIONS: For an HE+ Furnace Program job, the Contractor shall assess all heating systems for safety as identified in 2.A.4, above. However, monitoring ambient CO levels during combustion and draft testing is not required.

Forced-Air Furnace Replacement Standards — General

Replacement furnaces shall meet the minimum efficiency shown in Table 1. Observe the following standards in furnace installation and document on the appropriate heating system replacement check list.

- Add ductwork to address client comfort or airflow issues only with Agency approval.
 Add return or supply ductwork as part of furnace replacement to improve airflow to
 an acceptable level or to establish an acceptable value for temperature rise
 (measured supply temperature minus return temperature).
- 2. Mechanically fasten installed ductwork with screws. Seal the ductwork to the furnace cabinet with mastic and fabric mesh tape, or other UL 181-approved material, to form an airtight connection on all sides.
- 3. Provide the occupant with one of the following filter packages, rated at MERV 6 or higher:
 - a. One deep-pleated (3" depth or more) disposable furnace filter; or
 - b. Six 1"-2" disposable filters (one installed, five replacements); or
 - c. One permanent cleanable filter.
- 4. All forced-air systems shall have a sealing filter cover. The filter shall be easy to access and replace. Magnetic filter covers are allowable only if they provide an adequate seal to the ductwork to prevent air leakage.
- 5. Confirm that temperature rise meets manufacturer's specifications as indicated on the furnace label.
- 6. Set fan control for optimal efficiency without negatively impacting customer comfort.
- 7. Measure and document draft on non-condensing furnaces.
- 8. Test for and document carbon monoxide levels.
- 9. Seal holes in the furnace jacket of the air handler with mastic or foil tape. Filters shall be held firmly in place and provide complete coverage of blower intake or return register. Filters shall be easy to replace.
- 10. Set thermostat's heat anticipator to the amperage measured in the control circuit, or follow thermostat manufacturer's instructions for adjusting cycle length. Replace thermostat only if necessary.

HE+FP EXCEPTIONS: None.

B. Boiler Replacement Standards — General

Replacement boilers shall meet the minimum efficiency shown in Table 1. Follow other applicable requirements when replacing boilers. Replacement boilers shall meet the installation requirements shown on the "Hot Water Boiler Replacement Check List". A completed copy of the Hot Water Boiler Replacement Check List is required prior to payment of any invoice.

Boiler piping and controls present many options for zoning, boiler staging, and energy-saving controls. Dividing homes into zones, with separate thermostats, can significantly improve energy efficiency over operating as a single zone. Modern hydronic controls can provide different water temperatures to different zones with varying heating loads.

Follow these specifications when replacing boilers:

- 1. Size boilers using REScheck®, ACCA Manual J or equivalent calculation. Boiler seasonal efficiency is more sensitive to proper sizing than is furnace efficiency. Also see Section 1(C), "New-Heating-System Sizing Requirements".
- 2. Inspect radiators. Repair or replace as necessary.
- 3. Flush the distribution system per manufacturer's instructions or until the water runs clean and is free of sediment.
 - a. Modify the distribution system as necessary to work properly with the replacement boiler.
 - b. Confirm that the distribution system *has no leaks*. Repair water leaks in the system.
 - c. Stop valves shall be located at accessible points in the supply and return pipe connections and as near to the boiler as is convenient and practical, to permit draining the boiler without emptying the system.
- 4. With a zoned system, flush each zone separately.
- 5. Locate new zone valves by the boiler. Each zone shall have its own shut-off valves.
- 6. The boiler shall have a pressure-relief valve (PRV) rated and sized correctly for the boiler BTU input and maximum operating pressure and installed according to the manufacturer's specifications.
- 7. Install a pressure-reducing, automatic fill valve if none is present. The automatic fill valve shall have a purge valve or bypass piping with a shut-off valve.
- 8. The feed-water (inlet) side of the pressure-reducing, automatic fill valve shall have a backflow preventer with a shut-off valve installed upstream from the backflow preventer. The boiler (outlet) side of the pressure-reducing feed valve shall have a shut-off valve to allow for maintenance or replacement of the fill valve without draining the boiler system.
- 9. The backflow preventer shall have a drain facing below horizontal.
- 10. The system shall have automatic or manual air-bleed valves to eliminate air at all high points in the distribution-piping system.
- 11. The system shall have an expansion tank sized for the volume of water in the heating system.
- 12. Install the circulating pump near the downstream side of the expansion tank.
- 13. Extend new piping and radiators to conditioned areas, like additions and finished basements that are heated by space heaters, as directed by Agency.
- 14. Install thermostatically controlled radiator valves on the major radiators or zone controls.
- 15. Bleed or purge air from radiators and from the entire system.
- 16. FOR HIGH-EFFICIENCY BOILERS:
 - a. Equip the boiler with an outdoor reset installed on a north-facing exterior wall.
 - b. Program the boiler's heating curve (outdoor reset) in line with the dwelling's heat loss and radiation capacity.
 - c. Per manufacturer's instructions, install condensation-resistant venting with condensate drains.
 - d. Treat the boiler distribution water pH level PMI.
- 17. FOR STANDARD-EFFICIENCY BOILERS:
 - a. Confirm that the stack temperature is at least 300 °F, to minimize condensation in the chimney.
 - b. Verify that return-water temperature is above 130°F, to prevent acidic condensation within the boiler.
 - c. Install piping bypasses, mixing valves, primary-secondary piping, or other strategies as necessary to prevent condensation.
 - d. Consider installing a two-stage thermostat, outdoor reset and/or warm-weather shutdown to improve efficiency.

- 18. Insulate all supply piping outside conditioned spaces. For hot-water systems, install 1½- inch fiberglass insulation on all pipes less than or equal to 1½ inches in diameter, and 2-inch fiberglass insulation on all pipes greater than 1½ inches in diameter. For steam systems, install 1½-inch fiberglass insulation on all pipes less than or equal to 1½ inches in diameter, and 3-inch fiberglass insulation on all pipes greater than 1½ inches in diameter.
- 19. On a floor below grade, install the new boiler above known flood levels and as high as practical, to avoid damage in case of flooding.
- 20. Inspect chimney for deterioration and correct sizing. If this is a health and safety issue, provide to the Agency a separate cost estimate to repair and/or reline the chimney as necessary.
- 21. Install a full-closure electric vent damper where feasible for standard-efficiency boilers.
- 22. Also see Section 8 of this document, "Hot-Water Space Heating Distribution".

HE+FP EXCEPTIONS: None.

C. Gas-Fired Heating Installation

Replacement heating systems shall meet the minimum efficiency shown in Table 1. Follow other applicable requirements when replacing a gas furnace. Replacement natural-gas and propane furnaces shall meet the installation requirements shown on the "Replacement Gas Furnace Check List". A completed copy of the Replacement Gas Furnace Check List is required prior to payment of any invoice.

- 1. Check clearances of heating unit and its vent connector to nearby combustible materials, according to the International Fuel Gas Code (IFGC).
- 2. Verify and make adjustments, if necessary, so that flue-gas oxygen, stack temperature, draft, and carbon-monoxide levels are within manufacturer's specifications. If manufacturer's specifications are not available, adjust to meet specifications in Table 2.

Table 2 – Typical Ranges for Gas Burning Appliances

Performance Indicator	SSE 80+	SSE 90+
Carbon Monoxide - parts per million (ppm) as-measured		
specifications, or within documented manufacturer	≤ 100	≤ 100
specifications		
Stack temperature (°F)	325 - 450°	90 - 120°
Temperature heat rise (°F)	40 - 70°	30 - 70°
Oxygen (O ₂)	4 – 9%	4 – 9%
Gas pressure output at manifold – inches of water column (IWC)	3.2 - 3.9	3.2 - 3.9
Propane pressure output at manifold (IWC)	10 – 11	10 – 11
Steady state efficiency (SSE)	82 – 86%	92 – 97%
Supply temperature	120 - 140°	95 - 140°

- 3. Clock gas meter to troubleshoot oxygen, temperature, or carbon monoxide problems. Adjust gas input if necessary to correct the fuel-air mixture.
- 4. Test and set the gas manifold pressure to meet the manufacturer's specifications.
- 5. Follow manufacturer's venting instructions (and the International Fuel Gas Code) to establish a proper venting system.
- 6. Follow manufacturer's instructions for proper removal of condensate.
- 7. Check input gas pressure on furnace when all gas-fired appliances are operating in the house, to assure there is no drop-off in required gas pressure at full load.

- 8. Ensure proper sediment trap on gas line.
- 9. When required, an approved gas-pipe type will be installed, supported, and electrically bonded in accordance with National Fire Protection Association (NFPA) 54 or the Wisconsin Uniform Dwelling Code. Follow the manufacturer's specifications for installation. For more information see NFPA 54.

HE+FP EXCEPTIONS: None.

D. Oil-Fired Heating Installation

Replacement heating systems shall meet the minimum efficiency shown in Table 1. Follow all other applicable requirements when replacing an oil furnace. Replacement oil furnaces shall meet the installation requirements shown on the Oil Replacement Furnace Check List. A completed copy of the Oil Replacement Furnace Check List is required prior to payment of any invoice.

- Properly size the nozzle using REScheck®, Manual J, or an equivalent industryaccepted sizing formula. Also see above Section 1(C), "Heating-System Sizing Requirements."
- 2. Examine existing chimney and vent connector for suitability as venting for new appliance. The vent connector may need to be re-sized or the chimney may need to be re-lined. Provide to the Agency a separate cost estimate to repair and/or reline the chimney or vent connector as needed.
- 3. Provide clearances of heating unit and its vent connector to nearby combustibles in accordance with NFPA 31.
- 4. Measure draft, adjust flue damper PMI, and test for carbon monoxide.
- 5. Test oil pressure to verify compliance with manufacturer's specifications.
- 6. Test thermostat amperage and adjust thermostat heat anticipator to meet manufacturer's specifications.
- 7. Adjust unit as needed so that oxygen, flue-gas temperature, and smoke number meet or exceed manufacturer's specifications. If manufacturer's specifications are not available, refer to table 3.
- 8. Install new fuel filter and purge fuel lines as part of new installation.
- 9. Visually inspect chimney for safe operation in accordance with NFPA 211.
- 10. Repair tank and oil lines for safe operation in accordance with NFPA 31.

Table 3 – Typical Ranges for Oil Burning Appliances

Performance Indicator	SSE 80+	SSE 90+
Carbon Monoxide - parts per million (ppm) as-measured		
specifications, or within documented manufacturer	≤ 100	≤ 100
specifications		
Stack temperature (°F)	325 - 550°	300 - 450°
Oxygen (O ₂)	6 – 9%	5 – 9%
Smoke number (1-9)	≤ 2	≤ 1
Excess air	≥ 80%	≥ 35%
Oil pressure – pounds per square inch (psi)	≥ 100	100 - 150
Over-fire draft – inches of water column (IWC) negative	.02 IWC	.02 IWC
	or 5 Pa	or 5 Pa
Flue draft (IWC negative)	.0405 IWC	.0405 IWC or
·	or 10 – 15 Pa	10 – 15 Pa
Steady state efficiency (SSE)	≥ 75%	≥ 80%

HE+FP EXCEPTIONS: None.

3. REPLACING SPACE HEATERS

- 1. The program does not allow or fund replacement of portable space heaters.
- 2. Follow all applicable requirements when replacing space heaters.
- 3. Follow manufacturer's venting instructions carefully. Don't vent sealed-combustion, power-vented space heaters into chimneys serving atmospheric-draft appliances.
- 4. Verify that flue-gas oxygen and stack temperature are within manufacturer's specifications. If manufacturer's specifications are not available, refer to the ranges in Table 2.
- 5. If manufacturer's specifications require a fire-rated floor protector, size it to the width and length of the space heater, as required.
- 6. Replacement space heaters shall have an air-circulating blower.
- 7. Replacement space heaters shall have an Electronic Intermittent Pilot or Electronic Ignition.
- 8. Replacement space heaters shall not have a standing pilot light.
- 9. Replacement space heaters shall not be vent-free.
- 10. Space heater shall be provided with a properly grounded duplex receptacle for electrical service.
- 11. Provide customers with in-home operation and maintenance instructions and a review of safety precautions.

HE+FP EXCEPTIONS: The following applies only to an HE+ Furnace Program job where full weatherization will not occur:

When there are two or more existing space heaters that are each greater than 15 years old, consider replacing those units with a forced-air heating system. This installation requires prior approval. To obtain prior approval, the Agency shall submit a request to the Home Energy Plus Help Desk. The following information shall be included in the request, and the Contractor shall provide this information to the Agency:

- 1. The measured steady-state efficiency of the existing space heaters (or estimated efficiency, for units that are non-functional.)
- 2. The cost of replacing both space heaters.
- 3. The AFUE rating (per AHRI) of the replacement space heaters.
- 4. The total cost of installing a forced-air heating system.
- 5. The AFUE rating (per AHRI) of the replacement forced-air heating system.

4. REPLACING WOOD HEATERS

All replacement wood space heaters shall be listed appliances. All wood heaters shall meet applicable local codes and EPA requirements. Mobile-home wood space heaters shall be listed and HUD-approved appliances. All other applicable requirements shall be followed when replacing a wood stove.

Follow these guidelines for replacing wood heaters:

- 1. All installations shall meet manufacturer's specifications and conform to NFPA 211.
- 2. All wood heating units shall be certified to meet the EPA emission standards or local standards, whichever are most restrictive.
- 3. Installed units shall be certified and labeled by:
 - a. NFPA 211; or
 - c. Other equivalent listing organization.
- 4. Visually inspect chimney for safe operation, in accordance with NFPA 211.

- 5. Install a stack thermometer where appropriate on all wood-space-heater installations. Follow the manufacturer's recommendation for proper installation.
- 6. Follow the manufacturer's recommendations for providing outdoor combustion air.
- 7. Provide customers with in-home operation instructions, to include proper wood-burning practices and proper maintenance and safety recommendations, including the need for fire extinguishers.
- 8. It is important that customers understand the potential impact of exhaust ventilation on wood-heater operation.

HE+FP EXCEPTIONS: Prior approval from DEHCR is required before installing outdoor wood boilers using HE+ Furnace Program funds.

5. VENTING COMBUSTION GASES

Proper venting is essential to the operation, efficiency, safety and durability of combustion heaters. NFPA standards and the International Fuel Gas Code (IFGC) are the authoritative information sources on material choice, sizing, and clearances for chimneys and vent connectors, as well as for combustion air. Applicable codes from the following NFPA and ICC documents shall apply (see Table 4):

- The International Fuel Gas Code (IFGC) (ICC)
- NFPA 31: Standard for the Installation of Oil-Burning Equipment
- NFPA 211: Standard for Chimneys, Fireplaces, Vents, and Solid-Fuel-Burning Appliances

Table 4 – Guide to Venting Standards

Topic	Code Reference
Vent Sizing	IFGC, Section 504
Clearances	IFGC, Section 308 and Tables 308.2I NFPA 31, Section 4-4.1.1 and Tables 4-4.1.1 and 4-4.1.2 NFPA 211, Sections 6.5, 4.3, 5
Combustion Air	IFGC, Section 304 NFPA 31, Section 1-9; NFPA 211, Section 8.5 and 9.3

A. Improving Inadequate Draft

If measured draft is below minimum draft pressures, investigate the reason for the weak draft. Open a window, exterior door, or interior door to observe whether the addition of combustion air will improve draft. If this added air strengthens draft, the problem usually is depressurization. If opening a window has no effect, inspect the chimney. The chimney could be blocked or excessively leaky. Also see Table 5, Draft Problems and Solutions.

i. Duct improvements to solve draft problems

- a. Seal all return-duct leaks near furnace.
- b. Unless it is a finished living area, seal or remove all return-air registers in the combustion appliance zone.

- c. Improve balance between supply and return air by installing new return ducts, transfer grills, or jumper ducts, with Agency approval and the homeowner's consent.
- d. All remaining natural-draft appliances in the combustion appliance zone shall be properly drafting after the replacement heating system is installed.

ii. Chimney improvements to solve draft problems

- a. Remove chimney obstructions.
- b. Repair disconnections or leaks at joints and where the vent connector joins a masonry chimney.
- c. Measure the size of the vent connector and chimney and compare with ventsizing information listed in Section 504 of the International Fuel Gas Code. A vent connector or chimney liner that is either too large or too small can result in poor draft
- d. If wind is causing erratic draft, consider installing a wind-damping chimney cap, with Agency approval.
- e. If the masonry chimney is deteriorated, consider installing a new chimney liner, with Agency approval.
- f. Increase the pitch of horizontal sections of vent.

Table 5 – Draft Problems and Solutions

Draft Problems and Solutions

Diait Floblettis and Solutions			
Problem	Possible Solutions		
Adequate draft mayar established	Remove chimney blockage, seal chimney		
Blower activation weakens draft	Seal leaks in the furnace and in nearby return ducts isolme the furnace from nearby return registers.		
Exhaust fans weaken draft	Provide make-up or combustion air if opening a door or window to outdoors strengthens draft during testing.		
Closing intestor doors during blower opera- dan wealens draft	Add returnducis, grills between norms, or jumper duces.		

HE+FP EXCEPTIONS: None.

6. ELECTRIC FURNACES AND ELECTRIC BASEBOARD HEAT

Note: Replacement of an electric heating unit with an electric system is not allowed as part of HE+ Furnace Program services.

If an electric furnace will remain in the building, follow the requirements regarding forced-air distribution work, temperature rise, and other applicable requirements. In addition:

- 1. Check and clean thermostat.
- 2. Clean and lubricate blower, if present.
- 3. Clean or replace all filters.

- 4. Vacuum and clean blower and housing around electric elements, if dirty.
- 5. Clean fins on electric-baseboard systems, if applicable.
- 6. Take extra care in duct sealing and duct airflow improvements for electric furnaces because of the high cost of electricity.
- 7. Verify that safety limits, temperature rise, and static pressure conform to manufacturer's specifications.

Caution: Disconnect power from electric furnaces before performing any maintenance.

HE+FP EXCEPTIONS: Replacement of an electric heating unit with an electric system is not allowed as part of the HE+ Furnace Program services.

7. FORCED-AIR DISTRIBUTION WORK — GENERAL

- 1. Inspect and test ductwork for acceptable temperature rise, and for health and safety concerns.
- 2. Seal all major return and supply leaks. Remove (patch openings) all grilles installed in plenums.
- 3. Install dampers where supply ductwork is added, and adjust as necessary to balance the system.
- 4. Perform ductwork modifications as necessary, as approved by Agency, to ensure client comfort and to ensure that temperature rise meets manufacturer's specifications.
- 5. As directed by the Agency and with the owner's permission, in rooms other than kitchens and bathrooms with limited or no return air, add a return duct, undercut the door, or install a transfer grille or jumper duct to improve the return airflow
- 6. Note: Return grills are not allowed in the combustion appliance zone (CAZ), unless the CAZ is a finished living area. Do not install return grills in unconditioned areas or unintentionally conditioned areas.
- 7. Do not add supply registers to the CAZ unless it is an intentionally heated part of the home. Consult with customers about the removal of existing supply grilles in the CAZ. To replace supply plenum grilles, a new supply register may be installed at a location where conditioning is needed (e.g., a laundry area or work bench).

When applicable, for additional information regarding forced-air distribution work, see the Weatherization Field Guide, Chapter 3.

HE+FP EXCEPTIONS: None.

8. HOT-WATER SPACE-HEATING DISTRIBUTION — GENERAL

Hydronic distribution systems consist of the supply and return piping, the circulator, expansion tank, air separator, air vents, and heat emitters. A properly designed and installed hydronic distribution system can operate for decades without service. However, many systems have installation flaws or need service.

A. Hot-Water Space-Heating Distribution – Safety Checks and Improvements

- 1. Confirm the existence of a 30-psi-rated pressure-relief valve. Replace a malfunctioning valve or add one if none exists. Note signs of leakage or PRV discharges, and correct conditions causing the relief valve to discharge.
- 2. Make sure that the expansion tank isn't waterlogged or too small for the system. This could cause the pressure-relief valve to discharge when the water is heated. Test expansion tank for acceptable air pressure usually 12 to 22 psi.
- 3. If rust is observed in venting, verify that return water temperature is above 130°F for non-condensing gas boilers and above 150°F for oil boilers, to prevent acidic condensation.
- 4. The high-limit control shall deactivate burner at a water temperature of 180°F or less
- 5. Lubricate circulator pump(s) if necessary.

B. Hot-Water Space-Heating Distribution – General

- 1. Remove corrosion, dust, and dirt on the fire side of the heat exchanger.
- 2. Check for excess air during combustion from air leaks and incorrect fuel-air mixture.
- 3. Boiler shall not have a low-limit control for maintaining a minimum boiler-water temperature, unless the boiler is heating domestic water in addition to space heating.
- 4. Most systems have an automatic fill valve. If there is a manual fill valve for refilling system with water, it shall be open during air purging, to push water in and air out.
- 5. Consider installing a two-stage thermostat or timer control to increase circulator on-time compared to burner on-time.
- 6. Consider installing outdoor reset controls on boilers, to regulate supply water temperature according to outdoor temperature.
- 7. After control improvements like two-stage thermostats or reset controllers, verify that return-water temperature is high enough to prevent condensation and corrosion in the chimney, as noted previously.
- 8. Vacuum and clean fins of fin-tube convectors to remove visible dust and dirt there.
- 9. Insulate all supply piping that passes through unheated areas, using pipe insulation at least 1½-inch thick and rated for temperatures up to 200° F.
- 10. Consider installing electric vent dampers on natural-draft gas- and oil-fired high-mass boilers.

HE+FP EXCEPTIONS: None.

9. HEATING-UNIT REPLACEMENT IN MANUFACTURED HOUSING

Replacement gas furnaces shall be sealed-combustion, downflow, condensing furnaces, approved for use in mobile homes. Unit shall fit footprint of existing space and furnace closet door should close fully. Replacement oil furnaces shall have a minimum AFUE rating of 79% and be approved for use in a mobile home. Follow all other applicable requirements when replacing a furnace.

Follow these procedures when installing new mobile-home furnaces:

- 1. Install properly sized units according to REScheck®, Manual J or an equivalent industry-accepted sizing formula.
- Size the heating unit so that the existing compartment can accommodate it without major retrofitting, and ensure that the fit and finish is appropriate for the compartment. An installation that involves compartment retrofitting requires prior approval from the Agency.

- 3. Order and install a new furnace base, unless you are sure that the existing base matches the new furnace.
- 4. Support the main duct underneath the furnace with additional strapping if necessary to hold it firmly in place.
- 5. Attach the furnace base firmly to the duct connector. Seal all seams between the base, the duct connector, and main duct with mastic and fabric mesh tape.
- 6. Before installing the furnace, carefully seal the base plate to the floor prevent air leakage through the belly and floor.
- 7. Convert a belly-return system to a living-space-return system by rerouting returns to furnace-cabinet door.
- 8. Ensure that there is adequate return air.
- 9. Provide a complete air seal and weather seal around the new chimney and combustionair pipe where it penetrates the roof, ceiling, wall, or floor.
- 10. Provide a completely watertight weather seal at the roof penetration. Reinforce the area underneath the roofing with plywood or other strong material if necessary to create a strong patch and to prevent a low spot in the roof at the penetration. It is best for any roof patch to be slightly elevated from the surrounding roof, to prevent water collection at the patch.
- 11. Conduct a combustion test and compare test results with the specifications in Table 2 or Table 3. Take action to correct non-conforming specifications.
- 12. Install a condensate pump if necessary to convey the furnace's condensate to a suitable drain. Install condensate lines in a manner that guards against freezing.
- 13. Use existing distribution system and gas-supply line.
- 14. Properly remove and dispose of existing unit.
- 15. Provide an owner's manual with heating-system replacements.
- 16. Provide all clients with in-home operation and maintenance instructions and a review of safety precautions.

HE+FP EXCEPTION: When full weatherization work will not be performed, disregard Item 7 above.

10. PROGRAMMABLE THERMOSTATS

Install a programmable thermostat with a forced-air system when the existing thermostat must be replaced and the occupant is willing and able to program the replacement thermostat. Relocate thermostats to interior walls and instruct occupants regarding the operation of setback thermostat. Properly recycle any thermostat that has been replaced.

Setback thermostats are not recommended for some boiler systems — this is because following the setback period, the boiler may take too long to reheat the dwelling.

HE+FP EXCEPTIONS: None.

11. DUCT INSULATION AND DUCT SEALING

Refer to the Wx Field Guide, Chapter 3.4, "Forced-Air Furnace Distribution", for specifications and guidance regarding duct insulation and duct sealing.

HE+FP EXCEPTION: When full weatherization work will not be performed, there is no requirement to insulate ducts. For duct-sealing requirements, see Section 7, "Forced-Air Distribution Work – General", of this document.

12. CLEANING & TUNING GAS AND OIL FURNACES

Refer to the Wx Field Guide, Chapter 3.8.3, "Testing and Servicing Gas Combustion Systems", for specifications and guidance regarding the cleaning and tuning of gas combustion appliances. Refer to the Wx Field Guide, Chapter 3.9.2, "Testing and Servicing Oil-Fired Systems", for specifications and guidance regarding the cleaning and tuning of oil furnaces.

HE+FP EXCEPTION: When full weatherization will not be completed, a full clean and tune is not required. Perform only those services necessary to have the system running properly or to extend the expected useful life of the system.

13. WORST-CASE DRAFT PROTOCOL

Refer to the Wx Field Guide, Chapter 5.5, "Worst-Case Draft Protocol".

HE+FP EXCEPTION: Test remaining natural-draft appliances for draft under natural conditions, not under worst-case (depressurization) conditions.

14. COMBUSTION AIR

Refer to the Wx Field Guide, Chapter 3.14, "Combustion Air", for specifications and guidance regarding combustion air. The Agency shall determine whether the combustion-appliance zone requires additional combustion air.

HE+FP EXCEPTION: When full weatherization will not be performed, the Contractor shall determine whether the combustion-appliance zone has sufficient combustion air. Only add combustion air with Agency approval.

Attachment 5 - RFB# 08-3118 HE+ Furnace Program

Valid Invoice Requirements for Heating System Work for the Home Energy Plus (HE+) Furnace Program (Emergency & Non-emergency Services) (rev. 12/16/2016)

The purpose of this document is to provide bidders with a list of items required for a valid invoice as identified in the RFB, Section 6, Invoices, Required Documentation and Payment. Also see the RFB, Section 6, and/or Attachment 4 for other specific requirements related to a valid invoice and required documents. Invoices presented for payment shall be submitted in accordance with the RFB requirements and the following Agency instructions. Some documentation (such as sizing and #1-#4) may be required prior to contractor invoice submittal. A "Yes" in the column means the requirement applies to all heating system work (repair and replacement).

	Required documentation –following information or items shall be provided to the Agency (with, or prior to, the invoice) when applicable:	HE+ Furnace Assessment	HE+ Furnace repair or replacement
1	A description of the problem with the furnace/heating unit, age of the unit, nature of the repair or replacement to be performed.	Yes	Yes
2	Explanation of any deviations from normal procedure.	Yes	Yes
3	A copy of all documentation regarding problems or issues regarding job site performance, commodity performance and/or client issues.	Yes	Yes
4	Photographs as specified in RFB section 5. (Photos for repair work may be required by the Agency.)		Yes
5	Heating system sizing calculation documentation as specified in RFB section 5.		Replacements only
6	Lien Waiver(s) – contractor, appliance supplier, subcontractors (section 6).		Replacements only
7	A signed, completed HE+ Furnace Program Agreement form (located under Furnace Program Documents at: http://homeenergyplus.wi.gov/category.asp?linkcatid=566&linkid=122&locid=25).		Replacements only
8	A completed Heating System Checklist (available under <u>Field forms</u> at: http://homeenergyplus.wi.gov/category.asp?linkcatid=494&linkid=122&locid=25).		Replacements only
9	Copy of invoice(s) of subcontracted asbestos abatement and/or lead safe work including DHS Asbestos Project Notification, Hazardous Material Disposal Manifest.		Yes
10	Before, during, and after photos of asbestos abatement activities when asbestos abatement is required to perform work scope.		Yes
11	Copy of Permit(s) – see RFB section 6 (unless directed otherwise) ¹ .		Yes
12	Provide total cost of replacement/repair and identify individual costs for any collateral and/or items with separate costs (e.g., permits). (This should match cost sheet price, if item was bid.)		Yes

¹ Copy of building permit is required, except when a permit is not issued by the local jurisdiction; in this case, supply a copy of the receipt for payment.

Attachment 6: RFB# 08-3118 HE+ Furnace Program

Administrative Requirements for Home Energy Plus (HE+) Furnace Program Revised August 2017

This section reflects the program requirements for Contractor work performed under the HE+ Furnace Program – Emergency and Non-emergency Services. Rigid time constraints apply during the Heating Season (per the RFB sections 6.2 and 6.10). The job may include both an Assessment and Repair or Replacement, or the Assessment only.

A. Ineligibility for Program Services Due to Structural/Other Reasons

When the following conditions are observed, the Contractor shall cease the provision of services and notify the Weatherization Agency (**Agency**) immediately:

- 1. There is no existing furnace/heating unit installed in the dwelling.
- 2. Building contains a residential and a commercial unit where the residential and commercial units share a furnace.
- 3. New construction or units under major remodeling.
- 4. Recreational vehicles and other ineligible structures/vehicles that have been modified with permanent additions, or made immobile by putting onto blocks or otherwise attaching them to a site.
- 5. The heating system is working and there is no safety concern. A 'no heat' situation does not exist when there is a secondary heating system capable of providing the required heat to the dwelling.
- 6. Service cannot be provided to the dwelling because of the condition of the dwelling, housekeeping or sanitation issues, or perceived threats to worker safety.
- 7. Applicant has altered the operation of the furnace, or has mistreated the furnace.
- 8. Situations where a unit meeting the efficiency guidelines is not safe for the size of the space/dwelling.
- 9. The heating system is not associated with the eligible unit identified by the Agency.
- 10. The applicant was not living in the home at the time the heating system failed or became unsafe (e.g., the heating system was inoperable, unsafe, in need of repairs when the home was purchased).
- 11. Other reasons specific to the dwelling or household.

B. Repairs & Replacements

The following requirements apply to the provision of services (repairs or replacements):

- 1. Every heating system shall be assessed to determine structural eligibility and identify any safety concerns (RFB Attachment 4).
- 2. The determination to repair or replace a heating system shall be a reasonable and appropriate solution to the situation.
- 3. Provide services only for the primary fuel heating system in the dwelling, except when the fuel type is being changed. See provisions below for Fuel Switching.
- 4. Only one heating unit may be replaced in a dwelling, except when the heating units are space/room heaters.
- 5. Replacement of an electric heating unit with an electric heating unit is not allowed, unless no other fuel options are feasible and prior approval has been obtained from the Agency (see Fuel Switches section).
- 6. Replacement/heating units shall meet or exceed the minimum efficiency guidelines (except wood stoves/furnaces) in Table 1 (RFB Attachment 4), unless prior approval has been obtained from the Agency.
- 7. For all heating unit replacements, the Contractor shall satisfy the Technical Specifications (RFB Attachment 4) and shall ensure that installation procedures and units meet appropriate codes, ordinances and standards.

C. Collateral Activities

Collateral Activity is work performed to meet Technical Specifications (RFB Attachment 4) or other RFB requirements and is in addition to work required to install the basic heating system. Collateral work associated with a heating unit replacement shall be approved by the Agency and is included as part of the calculation of the total cost for replacement.

When invoiced, the Contractor shall identify all collateral work performed. Follow Agency directions for reporting cost (see RFB Attachment 5). Examples of collateral activities include:

- 1. Building permits (see RFB for requirements).
- 2. Duct work necessary to achieve the required air flow for the furnace.
- 3. Electrical work necessary to run a dedicated line from the main service box to the furnace/boiler.
- 4. Pipe work and valves necessary to get the hot water/steam from the boiler into the distribution system.
- Chimney repairs when part of a furnace repair/replacement. This may include chimney liners, and
 may be required to meet building codes. The repairs must be necessary to meet health and
 safety standards or code.
- 6. If asbestos abatement is necessary when replacing a heating unit, it shall be addressed and the abatement shall be performed by individuals that are trained, and certified (if required), for asbestos related work (see RFB and Appendix A).
- 7. A 'clean and tune' may be incorporated into a repair job only as needed (RFB Attachment 4).

D. Assessment & Decision to Repair or Replace

It is expected there will be an assessment of the furnace on every referral even if there is no resulting repair or replacement work (e.g., when the heating system is working safely or the dwelling is ineligible). When there is no replacement or repair needed, the cost of the assessment shall be identified on the invoice.

The Agency is responsible for authorizing the installation of repairs and/or replacements. This is addressed in RFB Section 6.2. The Contractor shall follow the direction provided by the Agency regarding this decision-making authority, and the authorization to proceed with such work.

E. Invoice and Documentation

See Attachment 5 for specific instructions for invoice requirements and necessary documentation. Documentation requirements identified in the RFB and in RFB-Attachment 4 apply to work performed under this contract.

Wisconsin Weatherization Replacement Gas Furnace Checklist

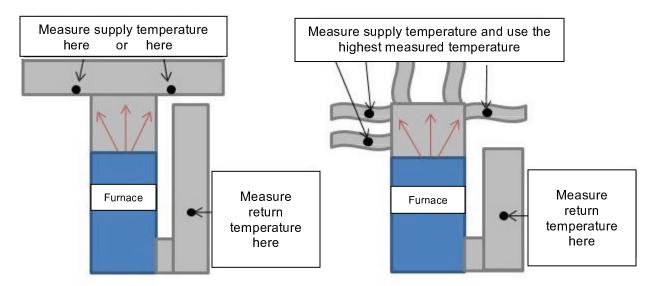


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ADJUSTMENTS			et thermostat	heat anticipator (thermost	at) PMI	□ Not applica			
AD,	Gas Piping:			of all appliances			☐ Shut off pr	esent		
∞ర				oresent		SST bonded				
INSPECTION	Air Filter:	Fi	Iter Size:	covered/sealed	х					
EC				ed off basement					ved PMI	
NSF				and exhaust pip			•	-		
=	General:		•	nums sealed and	-		-	•		
				operly drained pe			☐ Test holes			
		0	phaned wate	r heater has prop	per draft (see p. 2)	☐ Permit req	uired		
Inst	alled and M	easured E	TUs of Nev	v Furnace:						
BTU	s (high input):		Mea	asured Input (2 c	u. ft. of g	as):	Minutes:		Seconds:	
BTU	s (low input):		Mea	asured Input (2 c	u. ft. of g	as):	Minutes:		Seconds:	
						,	<u> </u>			
Mea	sured Gas I	Pressure i	n Inches of	f Water Colum	n(IWC):		Manifold		Manifold	
Inpu	t (High):		Inpi	ut (Low) – if appl	icable:		(High):		(Low):	
	· · · · ·		Enter tes	t result. Indicat	e "N/A" i	f installation is a	a space heate	er.	,	
				e Efficiency Tes				istribution St		
ტ				for Gas Burning Ap				IWC or □		Total
STING	SSE %	O2%	CO PPM	Intake Air *F	Flue	PMI AFUE%		Return	Supply	Pressure
TES							High Inp	ut		
ET							Low Inpu	it		
PERFORMANCE	L				1				l	l
M			Tempe	rature Rise	1	,	Variable	Heating		
OR	Supply °F	Return °F	(Supp	oly – Return)	PMI	PMI Max	Speed Furnace	CEM*	Fan Spe	eed Setting
RF					Min		_			
PE							High Inpi			
							Low Inpu			
				*CFM Mea	surement	Method: ☐ Plate			☐ Other:	
	tify the visual a		and performar	nce tests were		certify the heatir		installed to m	y satisfact	ion on
	-									
		Date: Date:								

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Natural Gas and Propane Specifications

Generally accepted ranges, excerpted from the Weatherization Field Guide. Always follow manufacturer's instructions if they differ from listed typical specifications. Examples of temperature rise testing procedures below.



Typical Ranges for Gas Burning Appliances

Acceptable Draft Test Readings for Gas Appliances with Respect to Outdoor							
	<10° F.	10°-90° F.	>90° F.				
Draft (Pa)	-2.5	(°F Out / 40) - 2.75	-0.5				
Draft (IWC)	010	(°F Out / 10,000) - 0.011	002				

Performance Indicator	SSE 80+	SSE 95+
Carbon monoxide (CO) ppm as-measured	≤ 100	≤ 100 or PMI
Stack temperature °F	325°- 450°	90°- 120°
Temperature Heat Rise °F	40° - 70°	45° - 70° or PMI
Oxygen (O ₂) %	4 - 9%	4 - 9%
Natural gas pressure output at manifold - Inches of Water Column (IWC)	3.2 - 3.9 IWC	3.2 - 3.9 IWC
Propane pressure output at manifold (IWC)	10-11 IWC	10 – 11 IWC
Steady-state efficiency (SSE)	82 - 86%	95 - 97%
Supply temperature °F	120° - 140°	95° - 140°

Comments:

Page 2 of 8 Revised: March 2018

Wisconsin Weatherization

Replacement Oil Furnace Checklist

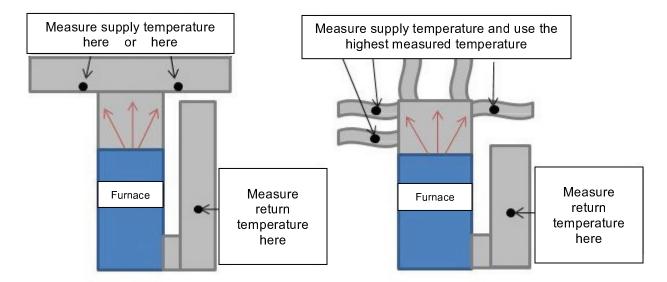
home energy +

	Customer:					Contractor: _					
						Model #: _					
Da	ate Installed:										
	/isWAP BID:				 OR \/	 VHEAP App#: _					
	Check box, ent			quested nui	mber as iten		r com				
		□ Ph	otos docun	nenting furna	ace conditions	and manufactur	er nam	eplate prov	rided to Age	ency	
	Documents:	□ Ins	tallation inf	formation stic	cker (installer	name, phone nu	mber, d	date)			
ည	Documents.	□ Wa	arranty and	manual in e	nvelope attac	hed to furnace		Agency give	en copy of s	izing calc	ulation
Z		☐ De	sign tempe	erature heat l	oss calculatio	on:		BTU per ho			
ADJUSTMENTS	Electrical:					ational				reaker pro	perly rated
ns						stat) PMI					
3	Fuel Supply:		w fuel filter	•		Tank and lines of		with NFPA	31		
8			leaks			Purged fuel line					
INSPECTION	Air Filter:		ter opening ter Size:	covered/sea	aled x	Filter removes e	easily w	ith no obstr	uctions		
) E				ated off base							
I S			•		•	ind vent connecte		•	•	NFPA 31	
=	General:		-		-	luct leaks properl	-	-			
					=	NFPA 211		Test holes s			
		□ Ba	rometric da	amper contro	l operates pro	operly		Permit requ	ired		
Measured BTUs of New Furnace: BTUs (input): Nozzle GPH: Nozzle Angle: Nozzle Spray Type: Note: The oil nozzle information is required to be posted on the furnace with the date of installation.											
BTU Note	ls (input): e: The oil nozzle i	 information	is required						pray Type:		
BTU Note	s (input): e: The oil nozzle i asured Oil F	information	is required e:		d on the furna	ace with the date		allation.	pray Type:		
BTU Note	ls (input): e: The oil nozzle i	information	is required		d on the furna				pray Type:		
BTU Note	s (input): e: The oil nozzle i asured Oil F	information	is required e: PSI	to be poste	d on the furna M	easured		allation. PSI	pray Type:		er
BTU Note	s (input): e: The oil nozzle i asured Oil F	information	is required e: PSI	d to be posted asurements Before baron	d on the furna M s metric damper	easured	of insta	PSI Mea	sured Smo		er
Note Me	s (input): e: The oil nozzle i asured Oil F PMI Flue Draft	information	is required e: PSI	asurements Before baror 0.04-0.06 IW Must be a m	M M metric damper	easured	of insta	allation. PSI	sured Smo		er
BTU Note Me	s (input): e: The oil nozzle i asured Oil F PMI	information	is required e: PSI	asurements Before baron 0.04-0.06 IW	M M metric damper	easured 10 – 15 Pa or	of insta	PSI Meanumoke Spot	sured Smo		er
Note Me	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft	information Pressure	PSI Draft Me eady State	asurements Before baror 0.04-0.06 IW Must be a m PMI	M Metric damper VC or PMI January of 5 Pa	easured 10 – 15 Pa or 1. or 0.02 IWC or	of insta	PSI Meanumoke Spot Scale #:	sured Smo	ke Numb	ure
Note Me	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft	information Pressure	PSI Draft Me eady State cal Ranges f	asurements Before baror 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning Intake Air	M metric damper /C or PMI inimum of 5 Pa	easured 10 – 15 Pa or 1. or 0.02 IWC or	of insta	PSI Meanumoke Spot Scale #:	sured Smo	ke Numb	
Note Me	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A	information Pressure Sta	PSI Draft Me eady State cal Ranges f	asurements Before baror 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning	M metric damper VC or PMI inimum of 5 Pa Test Appliances (se	easured 10 – 15 Pa or a. or 0.02 IWC or pee page 2)	of insta	PSI Meanumoke Spot Scale #:	sured Smo	ke Numb	u re Total
Note Me	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A	information Pressure Sta	PSI Draft Me eady State cal Ranges f	asurements Before baror 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning Intake Air	M metric damper VC or PMI inimum of 5 Pa Test Appliances (se	easured 10 – 15 Pa or a. or 0.02 IWC or pee page 2)	of insta	Measure Measur	sured Smo	ke Numb	u re Total
Note Me	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A	information Pressure Sta	PSI Draft Me eady State cal Ranges f CO PPM	asurements Before baror 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning Intake Air	M metric damper VC or PMI inimum of 5 Pa Test Appliances (se	easured 10 – 15 Pa or a. or 0.02 IWC or pee page 2)	of insta	Mea: moke Spot Scale #: Distri IWC Pa	sured Smo	tic Press	u re Total Pressure
BTU Note	s (input): e: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A	information Pressure Sta	PSI PSI Praft Me eady State cal Ranges f CO PPM Temper	asurements Before baror 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning Intake Air °F	M metric damper VC or PMI inimum of 5 Pa Test Appliances (se	easured 10 – 15 Pa or a. or 0.02 IWC or pee page 2)	of insta	Measure Spot Scale #: Distriction PSI Measure Spot Scale #:	sured Smo	tic Press	u re Total
Note Me	S (input): E: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A SSE %	Stachieve Typic O2% Return	PSI PSI Praft Me eady State cal Ranges f CO PPM Temper	asurements Before baron 0.04-0.06 IW Must be a m PMI Efficiency or Oil Burning Intake Air °F	Metric damper VC or PMI inimum of 5 Par Appliances (see	easured 10 – 15 Pa or a. or 0.02 IWC or pe page 2) PMI AFUE%	of insta	Measure Measur	sured Smo	tic Press	u re Total Pressure
Note Me	S (input): E: The oil nozzle is asured Oil F PMI Flue Draft Overfire Draft Adjust to A SSE %	Stachieve Typic O2% Return	PSI PSI Praft Me eady State cal Ranges f CO PPM Temper	asurements Before baron 0.04-0.06 IW Must be a m PMI Efficiency for Oil Burning Intake Air °F rature Rise — Return)	Memetric damper VC or PMI inimum of 5 Par Appliances (see Flue °F	easured 10 – 15 Pa or a. or 0.02 IWC or pe page 2) PMI AFUE%	of insta	Measure Measur	sured Smo	tic Press Supply	u re Total Pressure
PERFORMANCE TESTING 1 cel	s (input): asured Oil F PMI Flue Draft Overfire Draft Adjust to A SSE % Supply °F	Stachieve Typic O2% Return °F	PSI Praft Me eady State cal Ranges f CO PPM Temper (Supply	asurements Before baron 0.04-0.06 IM Must be a m PMI Efficiency or Oil Burning Intake Air °F rature Rise — Return)	Measuremer	easured 10 – 15 Pa or a. or 0.02 IWC or ee page 2) PMI AFUE% PMI Max	Si Si Carlotte Aii Raa Te Hiệ	Meanumoke Spot Scale #: Distriction PSI Meanumoke Spot Scale #:	sured Smo	tic Press Supply Fan Spe	ure Total Pressure eed Setting
PERFORMANCE TESTING 1 cel	Flue Draft Overfire Draft Adjust to A SSE % Supply °F	Standard O2% Return °F	PSI Praft Me eady State cal Ranges f CO PPM Temper (Supply	asurements Before baron 0.04-0.06 IW Must be a m PMI Efficiency for Oil Burning Intake Air °F rature Rise Return) *CFM	Measuremer	easured 10 – 15 Pa or a. or 0.02 IWC or ee page 2) PMI AFUE% PMI Max It Method: □ Pla I certify the hea date indicated.	Ail Ra Te High te Methods sys	Meanumoke Spot Scale #: Distriction PSI Meanumoke Spot Scale #: Distriction Pa r Flow sting sting sting stem was interested as intereste	sured Smo	tic Press Supply Fan Spe	Total Pressure eed Setting
PERFORMANCE TESTING 1 cel	Flue Draft Overfire Draft Adjust to A SSE % Supply °F	St. Achieve Typic O2% Return °F spection and red. ature:	PSI Praft Me eady State cal Ranges f CO PPM Temper (Supply	asurements Before baron 0.04-0.06 IW Must be a m PMI Efficiency for Oil Burning Intake Air °F rature Rise Return) *CFM	Measuremer	easured 10 – 15 Pa or a. or 0.02 IWC or ee page 2) PMI AFUE% PMI Max It Method: □ Pla I certify the hea date indicated. Customer Si	Ail Ra Te Hiç te Meth	PSI Mean moke Spot Scale #: Distriction IWC Pa r Flow inte sting in indicate mass in indicate indicate in indi	sured Smo	tic Pressi Supply Fan Spe	Total Pressure eed Setting
PERFORMANCE TESTING 1 cel	Flue Draft Overfire Draft Adjust to A SSE % Supply °F	Standard O2% Return °F Spection and ded. ature:	PSI Praft Me eady State cal Ranges f CO PPM Temper (Supply	asurements Before baron 0.04-0.06 IW Must be a m PMI Efficiency for Oil Burning Intake Air °F rature Rise Return) *CFM	Measuremer	easured 10 – 15 Pa or a. or 0.02 IWC or ee page 2) PMI AFUE% PMI Max It Method: □ Pla I certify the hea date indicated. Customer Si	Ail Ra Te Hiç te Meth	PSI Mean moke Spot Scale #: Distriction IWC Pa r Flow inte sting in indicate mass in indicate indicate in indi	sured Smo	tic Pressi Supply Fan Spe	Total Pressure eed Setting

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Fuel Oil Heating System Specifications

Generally accepted ranges, excerpted from the Weatherization Field Guide. Always follow manufacturer's instructions if they differ from listed typical specifications. Examples of temperature rise testing procedures below.



Typical Ranges for Oil Burning Appliances

Performance Indicator	Flame Retention			
Carbon Monoxide (CO) ppm as-measured	≤ 100			
Stack Temperature °F	300°- 450°			
Oxygen (O ₂) %	5 - 9%			
Smoke Number (0-9)	< 1			
Oil Pressure Pounds per Square Inch (psi)	PMI or 100 – 150			
Over-fire Draft (Inches of Water Column	-0.02 IWC or -5 Pa			
Flue Draft (IWC)	-0.04 to -0.06 IWC			
	-10 to -15 Pa			
Steady-State Efficiency (SSE)	≥ 80%			

Comments:

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Wisconsin Weatherization Replacement Boiler Checklist



	Customer:						Contrac	tor:					
							Mode						
Da	te Installed:						Seria						
	isWAP BID:					OR V							
Ch	eck box, enter to	est resu	lts or red		number		inspected	or comp	olet		I/A" if no	ot applic	
		☐ Ph	otos doc	cumenting	g boiler co	nditions and	d manufact	urer nam	epl	ate provided to	Agency.		
	Documents:					(installer na	-			•			
			-			ope attache			-	gency given cop	_	-	
ST								BTU per h					sign temp
IEN	Electrical:					and operati	ional			edicated circuit	and brea	iker prop	erly rated
ADJUSTMENTS					(thermost		lo looko			ot applicable nut off present			
) Sign	Gas Piping:			rap prese		es 🗆 N	SST bond		SI	iut on present			
	Fuel Oil:				∃ No leal				/ith	NFPA 31 🔲	Puraed	Fuel Lin	Δς
∞	i dei Oii.									be on floor if ap			<u> </u>
NSPECTION										combustibles (G	•		PA 31)
					_				-	l and supported		•	,
SPI	General:	☐ In:	stalled Pi	essure F	Relief Valv	e PMI			Te	est holes sealed			
2	General.	□ Ba	rometric	controls	operate p	roperly PMI	(if applicab	le)	Pe	ermit Required			
		□ Bl	ed air fro	m entire	system				Di	stribution Flush	ed PMI		
					-	per code ar			Di	stribution Wate	r Treated	PMI	
			-		ater has p	oper draft (see p. 2)						
	sting Load Term liation Type:	<i>inais an</i> ⊤Fin □	-		adiator	□ Base	eboard		Г	☐ Other:			
	ear Feet:					n Baseboa		re Feet:			adiators))	
	asured BTUs of	New Boi	•				/					<u> </u>	
	Modulating Boiler T			oplicable):		:							!
F	Rated BTUs (input):			Measured	Btu Input	2 cu. ft. of ga	as):			Minutes:	s	econds:	
	Nozzle GPH:			Nozzle A	·			c)	Nozzle Spray	Гуре:		
Mea	asured Gas Pres					NC) or Oil						Г	
	Input:			Manifold (fold (Low):				il (PSI):	
Ins	talled Devices: It Air Excluding Dev	ndicate	what wa: //www.va	s installe	ed. Steps	must be ta	ken to pre	vent con	dei	nsation in non- □ Other:	-conden	sing uni	ts.
	Wye Strainer □		_						HP	U Other.		GPM	W
	vyc otranici 🗀	Outdoor	OCHSOI	(IIIStali OI	i North we	iii) 🗆 Oii 0	diator i un		ze	Speed Setting		OI IVI	Watts
			Combu	stion and	d Draft Te	sting				Outdoor	Warm \		Design
ပ	Adjust to	achieve	typical ra	nges for	applicable	appliance	(see page	2)		Reset Setup		Down	Temp
TESTING		□CO ₂	CO PPM	Draft	Intake Air °F	Flue	SSE %	AFUE		Outdoor			
單	I link land	□O ₂	PPIVI		AIr F	Temp °F		%		Temp °F			
PERFORMANCE	High Input									Boiler Supply °F			
MA	High Input PMI												
ÖR	Low Input			-						Measured Temps °F	Supply	Return	Outdoor
	Low Input PMI									Temps 1			
Δ.	Oil Boilers	s Only:	Overfir	e Draft:		Smol	ke Test #:			Primary Loop (High Input)			
	rtify the visual ins apleted as indicat		and perfo	ormance i	tests were			he heatin indicated		ystem was insta	alled to n	ny satisfa	ction on
Inst	aller Signature				Date		Custome	er Signatu	ıre			Date	

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Replacement Boiler Specifications (Natural Gas, Propane (LP) and Fuel Oil)
Generally accepted ranges, excerpted from the Weatherization Field Guide. Always follow manufacturer's instructions if they differ from listed typical specifications. Examples of temperature rise testing procedures below.

Typical Ranges for Gas Burning Appliances

Acceptable Draft Test Readings for Gas Appliances with Respect to Outdoor							
	<10° F.	10°-90° F.	>90° F.				
Draft (Pa)	-2.5	(°F Out / 40) - 2.75	-0.5				
Draft (IWC)	010	(°F Out / 10,000) - 0.011	002				

Gas: Measure draft halfway between collar and chimney.

Performance Indicator	SSE 80+	SSE 95+
Carbon monoxide (CO) ppm as-measured	≤ 100	≤ 100 or PMI
Stack temperature °F	325°- 450°	90°- 120°
Oxygen (O ₂ %)	4 - 9%	4 - 9%
Natural gas pressure output at manifold - Inches of Water Column (IWC)	3.2 - 3.9 IWC	3.2 - 3.9 IWC
Propane pressure output at manifold (IWC)	10 - 11 IWC	10 – 11 IWC
Steady-State Efficiency (SSE)	82 - 84%	95 - 97%
Supply temperature °F	120° - 140°	95° - 140°
Return Water Temperature-Non-condensing °F	> 120	N/A

Typical Ranges for Oil Burning Appliances

Performance Indicator	Flame Retention			
Carbon Monoxide (CO) ppm as-measured	≤ 100			
Stack Temperature °F	300°- 450°			
Oxygen (O ₂) %	5 - 9%			
Smoke Number (0-9)	< 1			
Oil Pressure Pounds per Square Inch (psi)	PMI or 100 – 150			
Over-fire Draft (Inches of Water Column (IWC))	-0.02 IWC or -5 Pa			
Flue Draft (IWC)	-0.04 to -0.06 IWC or -10 to -15 Pa			
Steady State Efficiency (SSE)	≥ 80%			
Return Water Temp (Non-condensing boiler) °F	> 120			

Oil: Measure draft between barometric damper and collar and at over fire.

C	or	nr	ne	nt	ts	:

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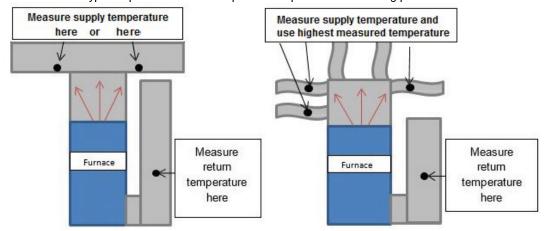
Wisconsin Weatherization Repair or Clean and Tune Checklist



	Customer:				Contra	actor:			
Work Date:									
WisWAP BID:				OR WHEAP App#:					
Fuel Type: ☐ Natural Gas ☐ Pr			Gas □ Propan	e 🗆 Oil 🗖	Other:				
System Type: ☐ Forced Air ☐ Boiler ☐ Spa									
Cle	Clean, inspect, test, and repair: Perform the following inspection procedures and maintenance practices on heating systems								
as	as necessary. The goal of these measures is to reduce carbon monoxide (CO), adjust fuel-air mixture, improve steady-state								
eff						should be properly sealed after completion of testing.			
						as item is inspected or completed.			
	Emergency shu				•	ent and is operational			
15	Electrical servic			-		plication; Note problems & make recommendations			
	Fuel lines/stora	ge tanks		No leaks presei Clean	nt; Snut off pi	present; Filter or sediment trap is present and clean			
ST	Blower Air Handler			Clean					
SYSTEMS	Air Filter				0				
ALL	Heat Exchange	r		Clean or replace Clean surface & inspect for leaks; Inform customer & agency if exchanger is cracked					
₹	Filter Slot/Filter				-	ent; Replacement filters/permanent filter present	'		
	Thermostat	,			-	erage measured in control circuit or PMI			
	Oil Filter			Replace filter	ato: to ampo	orago moada da moonto di di di di mi			
				Replace nozzle					
	Nozzle			Nozzle GHP:	No	ozzle Angle: ° Spray Type:			
<u> </u>	Electrodes					ourner tube PMI			
HEATING UNIT	Transformer			Clean contacts;	Measure vo	oltage & replace if voltage is not within PMI			
פר	Burner/Burner ⁻	Tube Assembly		Clean; Inspect f	for over burni	ning; Replace flame retention head if damaged			
Ž	Combustion Chamber			Clean; If necess	sary repair co	combustion chamber or replace			
A	CAD/Stack Control Cell			Test; Verify that burner shut off, PMI, when the cad cell is blocked from flame					
뿐	Flame Ignition			Test; Ignition must be instantaneous; Pre-purge type unit, blower on prior to ignition					
OIL	Barometric Damper			Plumb, level, swings freely					
0	Flue Draft (befo	re damper)		Measure and adjust as needed (see page 2)					
	Over Fire Draft				-	ded (see page 2)			
	High Limit Cont				-	ire & adjust or replace if >250° (furnace) or >180° (boiler)			
	Oil Pump Press	ure				; Measured Pressure: PSI alignment, flame impingement & other flame-interference			
	Burners					anginnent, name impingement & other name-interference and adjust as needed			
NG/LP	Burner/Manifold	I				tion or rust in burner and manifold area outside of firebox			
NG N	Pilot (if equippe	d)		Burning, good is	gnition, checl	ck safety control for gas valve shut-off when pilot is out			
	Gas Pressure (WC)		Input:	Manifold	d:			
		T	1						
তু	Input on Lai		•	on Label:		Measured Input: (Clock Meter)			
TESTING	Adjust to Ashio	Steady Sta e Typical Ranges/	te Efficiency		20 page 2\	Distribution Static Pressure			
	SSE %	O2%	CO PPM	Smoke #	Flue °F		_		
	33L //	O2 /6	COTTIVI	SHORE #	i iue i	Return Supply All Flow Fressure	<u>'</u>		
N N									
PERFORMANCE			I.						
<u>k</u>			erature Rise			PMI Range			
诺	Supply °F	Return °F		Total Rise		Minimum Maximum			
B									
I certi	ify the visual insp	ection and perfo	ormance tests	s were	I certify the	ne heating system was installed to my satisfaction on the			
completed as indicated. date indicated.									
	Installer Signat	ure: _			Custon	mer Signature:	_		
	Installer Signature: Printed Name:								
	i iiileu Na					i intoa name.	-		
Date:					Date:				

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Natural Gas and Propane Specifications
Generally accepted ranges, excerpted from the Weatherization Field Guide. Always follow manufacturer's instructions if they differ from listed typical specifications. Examples of temperature rise testing procedures below.



Acceptable Draft Test Readings for Gas Appliances with Respect to Outdoor			
	<10° F.	10°-90° F.	>90° F.
Draft (Pa)	-2.5	(°F Out / 40) - 2.75	-0.5
Draft (IWC)	010	(°F Out / 10,000) - 0.011	002

Typical Ranges for Gas Burning Appliances				
Performance Indicator	SSE 80+	SSE 95+		
Carbon monoxide (CO) ppm as-measured	≤ 100	≤ 100 or PMI		
Stack temperature °F	325°- 450°	90°- 120°		
Temperature Heat Rise °F	40° - 70°	45° - 70° or PMI		
Oxygen (O ₂) %	4 - 9%	4 - 9%		
Natural gas pressure output at manifold - Inches of Water Column (IWC)	3.2 - 3.9 IWC	3.2 - 3.9 IWC		
Propane pressure output at manifold (IWC)	10-11 IWC	10 – 11 IWC		
Steady-state efficiency (SSE)	82 - 86%	95 - 97%		
Supply temperature °F	120° - 140°	95° - 140°		

Typical Ranges for Oil Burning Appliances				
Performance Indicator	Flame Retention			
Carbon monoxide (CO) ppm as-measured	≤ 100			
Stack temperature °F	300°- 450°			
Oxygen (O ₂) %	5 - 9%			
Smoke Number	< 1			
Oil pressure pounds per square inch (psi)	PMI or 100 - 150			
Over-fire draft	-0.02 IWC or 5 Pa			
Flue draft	-0.04 to -0.06 IWC or -10 to -15 Pa			
Steady State Efficiency (SSE)	≥ 80%			

Comments:			

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Attachment 8 – RFB # 08-3118 HE+ Furnace Program

Wisconsin Weatherization Field Guide – July 2016 – excerpt on CONDENSATE REMOVAL

3.8.2 Condensate Removal

Condensate is routed away from the furnace in one of two ways:

- 1. Running condensate tubing or piping directly from the furnace to an appropriate drain (Preferred Method); or
- 2. Pumping the condensate from the furnace to an appropriate drain using an electric **condensate pump**.

Whenever feasible, pipe directly from the furnace to the floor drain, without installing a condensate pump. Mechanically fasten the piping, either to the floor-drain strainer or to the floor itself. Ensure the piping will not pose a tripping hazard to the occupants. Installing a "trip strip," with the customer's Weatherization Agency's approval, may be useful to prevent occupants from tripping over the piping.

Sometimes, a direct-piping strategy will not be feasible. There may not be a drain near the furnace, or perhaps the piping would pose a tripping hazard to the occupants. In these situations, installing a condensate pump is likely a better option. See the next section for information about condensate pumps.

Condensate Pumps

A condensate pump is installed when direct piping to an approved drain is not feasible. Condensate pumps may be installed using existing receptacles, new ground-fault circuit interrupter (GFCI) receptacles, or directly wired in accordance with pump manufacturer's requirements. Inspect the entire condensate system for leaks after installation. Insulate the condensate drain system when it is located in an unconditioned area or has the potential to form condensation. If a condensate pump is installed in a finished area, a secondary drain pan should be installed with a safety feature to disable the heating system if the pump fails. Condensate is a slightly acidic byproduct of combustion. Plumbing code requires it to be drained to the sanitary sewer system, and not to the ground or to a sump pump. Code allows condensate to go to a floor drain, a stand pipe, or an indirect or local waste pipe served by a stand pipe or the laundry tray tail piece. An air gap is required where the condensate line enters the receptor. The condensate line cannot go directly into any drainpipe. See SPS 382.33 for Wisconsin code provisions regarding condensate drains.

Floor drain: The floor drain is the most common method for discharging condensate. Condensate lines that run to the drain must be secured to the floor to keep them in place. This method works best when the drain is not in a typical path of foot traffic.

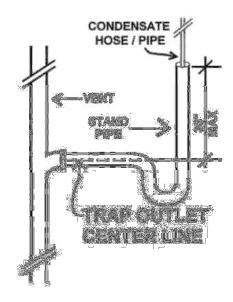


Attachment 8 – RFB # 08-3118 HE+ Furnace Program

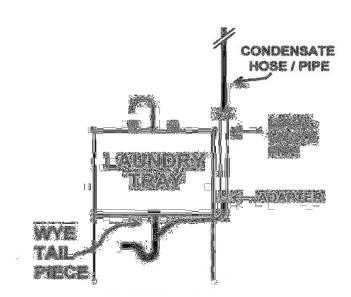
Wisconsin Weatherization Field Guide – July 2016 – excerpt on CONDENSATE REMOVAL

Stand pipe: The laundry stand pipe is often the best place to discharge condensate. If the opening is not large enough for the washing machine hose and the condensate line, an adapter can be added to enlarge the top of the pipe. A stand pipe cannot exceed 36 inches in height above the centerline of the horizontal drainpipe. If an existing standpipe is not an option, a new stand pipe, trapped and vented, is acceptable. This option should be the last choice, as the trap can dry out if the heating system does not discharge condensate over an extended time. If a washing machine could be discharged into the stand pipe, extend the standpipe at least 18 inches above the centerline of the horizontal drainpipe.

Indirect or local wastepipe: A vertical pipe that uses the trap of a stand pipe or laundry tailpiece is considered an indirect or local wastepipe. It needs to be higher than the flood line of the laundry tray or stand pipe. This method can also be used if the existing standpipe is full of other hoses.



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HE+ Furnace Program Client Agreement

Name	ey .	Client		Furnace Contractor
	Name		Name	
Phone	Phone		Phone	
Please check the app	propriate response,	sign and date this form.		
system and allo performance inscomply with saf perform the wo Wisconsin, De quality assurated allow for a finator future Furnato the following	ow a Furnace Programs spection following co fety standards and per ork and a follow-up epartment of Adminitude inspection of we all safety and performace Program service ag based on heating	m staff member to enter my impletion of the installation erformance specifications, inspection to take place, istration and/or its design ork performed. By accept mance inspection and to es may be denied. Maint	y home for a lift further to en a lift further to en a lift properly tenance in trace filts	furnace work is required to
supply and ret	• ,			
☐ I understand th	• • • • • • • • • • • • • • • • • • • •	us Furnace Program doe and/or operation of air co		vice air conditioners and is ng units.
☐ I understand the not liable for fu	uture maintenance		onditioni	
☐ I understand the not liable for fu	uture maintenance	and/or operation of air co	onditioni	
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☐ I understand the not liable for fu	uture maintenance a	and/or operation of air co	onditioni	ng units.

Revised 7/2016

Printed Name:



HE+ Furnace Program Furnace Conversion Work Agreement

Weatherization Agency			Client		Furnace Contracto
ame		Name		Name	
none		Phone		Phone	
Please check the appropriate response, sign and date this form.					
	modified to use natural Furnace Program stations following comply with safety state contractor to perform allow the State of Wismy home to conduct a	al gas an if membe ompletion andards a the work sconsin, [a quality a	conversion. I understand that I will not receive a new fur to enter my home for a find of the conversion. If further and performance specification and a follow-up inspection Department of Administration assurance inspection of world in the heating system or further to the specific of the system or further the system of t	rnace. I a lal safety er furnace ons, I ag to take p n and/or rk perforr	agree to allow a and performance work is required to ree to allow the lace. I further agree to its designee to enter med. By accepting this
	that are outside the se am responsible for an converting or replacin Liquefied Petroleum (conversion to natural	cope of the cope o	will not be responsible for fore program (i.e. cook stoves sociated with downsizing the existing appliances as necessive appliances are present in ained professional should cook if the appliances are not esturer's instructions.	s and clo ne existin ssary. I u the hom omplete t	thes dryers) and that I g fuel tank and Inderstand that if e and are planned for the conversion. It is a
	I decline the heating s	system co	onversion. Please indicate v	vhy belov	N.
Clie	ent Signature:			Date	:
Prir	nted Name:				

Date: _____

Contractor Signature:

Printed Name:



HE+ Furnace Program

Contractor On-Site Assessment

Client Information

Date Call Recv'd: Date Time Recv'd: Time Date of Assessment: Date						
Client Name: First and Last Client Phone #: Ph.# Alt. Client Phone #: Ph. #						
Address: Address						
Contractor Information						
Contractor Name: Company Name Service Tech's Name: Tech						
Heating System Details:						
Age of Heating System: Age Heating System Issue: Select One 2 nd Heating System Issue: Select One						
Repair Details (include all measures to be considered): Repair Heating System Details.						
Replacement Details (include all measures to be considered): Replacement Details						
Repair Cost: \$ Cost Replacement Cost: \$Cost Trip Charge only: \$Cost						
Contractor Signature: Signature Date: Today Date						
*** Office Use Only ***						
☐ Approved ☐ Denied ☐ Correction to assessment needed						
Approval/Denial By: Signature. Date: Date						

Social Development Commission – Weatherization & HE+

Asbestos Operations and Maintenance Subcontractor Protocol

If your SDC project has a discovery of (PACM) Possible Asbestos Containing Material, (ACBM) Asbestos Containing Building Materials or Vermiculite the following SDC protocol should be put into place. Remember, Asbestos Operations & Maintenance (O&M) protocols are determined per activity (not per home). Multiple O&M level activities can be performed at one jobsite. Just because a measure involves a step that is repetitive does not mean it automatically exceeds O&M.

- 1. If the suspect material disturbance is less than a 60" X 60" disposable bag, Operations & Maintenance procedures would apply and may be performed by a certified trained O&M card carrying worker.
- 2. If the suspect material exceeds the 60" X 60" disposable bag, and can NOT be handled by O&M trained personnel, The following would apply:
 - Notify the appropriate SDC Project Manager (PM) at (414) 906-2700 you **must** receive approval **prior** to having any abatement work performed. Pictures should be taken of the condition(s) in question.
 - Bids on the abatement project need to be completed by a Certified Asbestos Company, the cost and work scope must be approved by the Project Manager.
 - If the PM is unable to respond in a timely manner, notify the SDC HAZMAT Coordinator (Greg DiSalvo) at (414) 906-2844, the coordinator will review the project with the PM or decide the next step, a site visit may take place prior to an abatement determination. Site work will be reviewed by the Project Manager & HAZMAT Coordinator to ensure compliance.
 - Do not eliminate blower door diagnostics without approval by the PM. The discovery of suspect material requires diagnostics to be completed using the Pressurization of the home using the Blower Door Tool.
 - When approved abatement projects are completed, **you must include:**
 - **1.** An invoice from the abatement company.
 - 2. Proof of DHS notification.
 - **3.** A copy of the disposal manifest.
 - **4.** Photo's documenting the process of the project, including **Before, During** and **After Photos, Containment and PPE**. Abatement invoices will not be paid by SDC without PROPER DOCUMENTATION and prior approval by the **Project Manager**.

Questions, concerns! Call the Project Manager prior to proceeding.

Weatherization Team Revision 3 Aug. 24, 2016

PART A - STATE OF WISCONSIN STANDARD TERMS AND CONDITIONS (rev. 06/07/2017)

- 1.0 SPECIFICATIONS: The specifications in this request are the minimum acceptable. When specific manufacturer and model numbers are used, they are to establish a design, type of construction, quality, functional capability and/or performance level desired. When alternates are bid/proposed, they shall be identified by manufacturer, stock number, and such other information necessary to establish equivalency. The Agency shall be the sole judge of equivalency. Bidders/proposers are cautioned to avoid bidding alternates to the specifications that may result in rejection of their bid/proposal.
- 2.0 DEVIATIONS AND EXCEPTIONS: Deviations and exceptions from original text, terms, conditions, or specifications shall be described fully, on the bidder's/proposer's letterhead, signed, and attached to the request. In the absence of such a statement, the bid/proposal shall be accepted as in strict compliance with all terms, conditions, and specifications and the bidders/proposers shall be held liable.
- **3.0 QUALITY:** Unless otherwise indicated in the request, all material shall be first quality. Items which are used, demonstrators, obsolete, seconds, or which have been discontinued are unacceptable without prior written approval by the Agency.
- **4.0 QUANTITIES:** The quantities shown on this request are based on estimated needs. The Agency reserves the right to increase or decrease quantities to meet actual needs.
- **5.0 DELIVERY:** Deliveries shall be F.O.B. destination freight prepaid and included unless otherwise specified.
- **6.0 PRICING AND DISCOUNT:** The Agency may qualify for government discounts. Unit prices shall reflect these discounts.
 - 6.1 Unit prices shown on the bid/proposal or contract shall be the price per unit of sale (e.g., gal., cs., doz., ea.) as stated on the request or contract. For any given item, the quantity multiplied by the unit price shall establish the extended price, the unit price shall govern in the bid/proposal evaluation and contract administration.
 - 6.2 Prices established in continuing agreements and term contracts may be lowered due to general market conditions, but prices shall not be subject to increase for ninety (90) calendar days from the date of award. Any increase proposed shall be submitted to the Agency in thirty (30) calendar days before the proposed effective date of the price increase, and shall be limited to fully documented cost increases to the contractor which are demonstrated to be industry wide. The conditions under which price increases may be granted shall be expressed in bid/proposal documents and contracts or agreements.

- 6.3 In determination of award, discounts for early payment will only be considered when all other conditions are equal and when payment terms allow at least fifteen (15) days, providing the discount terms are deemed favorable. All payment terms shall allow the option of net thirty (30).
- **7.0 UNFAIR SALES ACT:** Prices quoted to the Agency are not governed by the Unfair Sales Act.
- 8.0 ACCEPTANCE-REJECTION: The Agency reserves the right to accept or reject any or all bids/proposals, to waive any technicality in any bid/proposal submitted, and to accept any part of a bid/proposal as deemed to be in the best interests of the Agency and State of Wisconsin.

Bids/proposals MUST be date and time stamped by the soliciting purchasing office on or before the date and time that the bid/proposal is due. Bids/proposals date and time stamped in another office will be rejected. Receipt of a bid/proposal by the mail system does not constitute receipt of a bid/proposal by the purchasing office.

- **9.0 METHOD OF AWARD:** Award shall be made to the lowest responsible, responsive bidder unless otherwise specified.
- 10.0 ORDERING: Purchase orders or releases via purchasing cards shall be placed directly to the contractor by an authorized representative of the Agency. No other purchase orders are authorized.

11.0 PAYMENT:

11.1 PAYMENT TERMS & INVOICING: The Agency normally will pay properly submitted vendor invoices within thirty (30) days of receipt providing goods and/or services have been delivered, installed (if required), and accepted as specified.

Invoices presented for payment shall be submitted in accordance with instructions contained on the purchase order including reference to purchase order number and submittal to the correct address for processing.

A good faith dispute creates an exception to prompt payment.

- 11.2 DELAY OF VALID PAYMENT: If a Vendor is not paid in a timely fashion as indicated in this contract and no Good Faith Dispute was issued, the Vendor may contact the Home Energy Plus Help Desk at heat@wisconsin.gov or 608-267-3680 regarding delayed payment(s).
- 12.0 GUARANTEED DELIVERY: Failure of the contractor to adhere to delivery schedules as specified or to promptly replace rejected materials shall render the contractor liable for all costs in excess of the contract price when alternate

procurement is necessary. Excess costs shall include the administrative costs.

- 13.0 ENTIRE AGREEMENT: These Standard Terms and Conditions shall apply to any contract or order awarded as a result of this request except where special requirements are stated elsewhere in the request; in such cases, the special requirements shall apply. Further, the written contract and/or order with referenced parts and attachments shall constitute the entire agreement and no other terms and conditions in any document, acceptance, or acknowledgment shall be effective or binding unless expressly agreed to in writing by the contracting authority.
- 14.0 APPLICABLE LAW AND COMPLIANCE: This contract shall be governed under the laws of the State of Wisconsin. The contractor shall at all times comply with and observe all federal and state laws, local laws, ordinances, and regulations which are in effect during the period of this contract and which in any manner affect the work or its conduct. The Agency or State of Wisconsin reserves the right to cancel this contract if the contractor fails to follow the requirements of s. 77.66, Wis. Stats., and related statues regarding certification for collection of sales and use tax. The Agency or State of Wisconsin also reserves the right to cancel any contract with a federally debarred contractor or a contractor which is presently identified on the list of parties excluded from federal procurement and nonprocurement contracts.
- 15.0 ANTITRUST ASSIGNMENT: The contractor and the Agency recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the Agency (purchaser). Therefore, the contractor hereby assigns to the Agency any and all claims for such overcharges as to goods, materials or services purchased in connection with this contract.
- **16.0 ASSIGNMENT:** No right or duty in whole or in part of the contractor under this contract may be assigned or delegated without the prior written consent of the Agency.
- 17.0 NONDISCRIMINATION / AFFIRMATIVE ACTION: In connection with the performance of work under this contract for services, the contractor agrees not to discriminate against any employee or applicant for employment because of age, race, religion, handicap, physical sex. condition. developmental disability as defined in s. 51.01(5), Wis. Stats., sexual orientation as defined in s. 111.32(13m), Wis. Stats., or national origin. This provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Except with respect to sexual orientation, the contractor further agrees to take affirmative action to ensure equal employment opportunities.

- Sections 17.1 17.3 apply to services contracts only. Affirmative Action requirements do not apply to commodities contracts, including refrigerators and freezers.
- 17.1 Service contracts estimated to be over fifty thousand dollars (\$50,000) require the submission of a written affirmative action plan by the contractor to the Agency. An exemption occurs from this requirement if the contractor has a workforce of less than fifty (50) employees. Within fifteen (15) working days after the contract is awarded, the contractor shall submit the plan (or exemption request) to the Agency for approval. Information regarding this requirement is also available on the state's VendorNet System website:
 - http://vendornet.state.wi.us/vendornet/contract/contcom.asp.
- 17.2 The contractor agrees to post in conspicuous places, available for employees and applicants for employment, a notice to be provided by the Agency that sets forth the provisions of Wisconsin's nondiscrimination law.
- 17.3 Failure to comply with the conditions of this clause may result in the contractor's becoming declared an "ineligible" contractor with the State, termination of the contract, or withholding of payment.
- to the Agency the articles described herein guarantees the articles were manufactured or produced in accordance with applicable federal labor laws. Further, that the sale or use of the articles described herein will not infringe on any United States patent. The contractor covenants that it will at its own expense defend every suit which shall be brought against the Agency (provided that such contractor is promptly notified of such suit, and all papers therein are delivered to it) for any alleged infringement of any patent by reason of the sale or use of such articles, and agrees that it will pay all costs, damages, and profits recoverable in any such suit.
- 19.0 SAFETY REQUIREMENTS: All materials, equipment, and supplies provided to the Agency or utilized in performance of this contract shall comply fully with all safety requirements as set forth by the Wisconsin Administrative Code, the Rules of the Industrial Commission on Safety, and all applicable OSHA Standards.
- **20.0 WARRANTY:** Unless otherwise specifically stated by the bidder/proposer, the following warranty applies:
 - 20.1 Equipment purchased as a result of this request shall be warranted against defects by the bidder/proposer for one year from date of receipt. The equipment manufacturer's standard warranty shall apply as a minimum and shall be honored by the contractor.

20.2 Workmanship and product require a warranty of at least one year.

- **21.0 INSURANCE RESPONSIBILITY:** The contractor performing services for the Agency shall:
 - 21.1 Maintain worker's compensation insurance as required by Wisconsin Statutes, for all employees engaged in the work.
 - 21.2 Maintain commercial liability, bodily injury and property damage insurance against any claim(s) which might occur in carrying out this agreement/contract. Minimum coverage shall be one million dollars (\$1,000,000) liability for bodily injury and property damage including product liability and completed operations. Provide motor vehicle insurance for all owned, non-owned and hired vehicles that are used in carrying out this contract.
 - **21.3** The Agency reserves the right to require higher or lower limits where warranted.
 - 21.4 The Agency reserves the right to require the contractor to name the Agency as additional insured if specified in RFB.
- 22.0 CANCELLATION & TERMINATION: The Agency reserves the right to cancel any contract in whole or in part without penalty due to non-appropriation of funds or for failure of the contractor to comply with terms, conditions, and specifications of this contract.
 - In addition to conditions described in the Request for Bid, the Agency reserves the to terminate the right resulting contract/agreement, for reasons of breach of contract, by giving written notice to Contractor of such termination and specifying the effective date thereof, at least ten (10) days before the effective date of such termination. Contractor shall, in the event of such termination, be entitled to receive compensation for any work accepted hereunder in accordance with the Agency's Contractor shall also be compensated for partially completed work in the event of such termination. compensation for such partially completed work shall be no more than the percentage of completion of each work effort, as determined in the sole discretion of the Agency, times the corresponding payment for completion of such work as set forth in the Agency's order(s).
 - 22.2 Upon cancellation, termination or other expiration of the resulting contract/ agreement, each party shall forthwith return to the other all papers, materials, and other properties of the other held by each for purposes of execution of the contract/agreement. In addition, each party will assist the other party in the orderly termination of this contract/ agreement and the transfer of all aspects hereof, tangible or intangible, as may be necessary for the

orderly, nondisruptive business continuation of each party.

23.0 CONTRACT CANCELLATION FOR CONTRACTOR DEFICIENCIES: The Agency

reserves the right to cancel this Contract in whole or in part without penalty, upon written notice to the Contractor, if the Contractor:

- Fails to perform any material obligation required under this Contract after a thirty (30) day notice and cure period;
- Files a petition in bankruptcy, becomes insolvent, or otherwise takes action to dissolve as a legal entity:
- Makes an assignment for the benefit of creditors;
- Fails to follow the sales and use tax certification requirements of Wisconsin Statute §77.66;
- Incurs a delinquent Wisconsin tax liability;
- Fails to submit a non-discrimination or affirmative action plan as required herein;
- Fails to follow the non-discrimination or affirmative action requirements of Wisconsin Statute §11(II), (Wisconsin's Fair Employment Law);
- Becomes a state or federally debarred Contractor, or is excluded from federal contracts;
- Fails to maintain and keep in force all insurance, permits and licenses as required under this Contract:
- Fails to maintain the confidentiality of the Agency's information or Data that is considered to be Confidential Information, proprietary, or containing Personally Identifiable Information; or
- In the sole opinion of the State, threatens the health or safety of a State or Agency employee, citizen, or customer by the Contractor's performance of this Contract.
- 24.0 PUBLIC RECORDS ACCESS: Due to the use of State funds, it is the intention of the Agency to maintain an open and public process in the solicitation, submission, review, and approval of procurement activities.

Bid/proposal openings are public unless otherwise specified. Records may not be available for public inspection prior to issuance of the notice of intent to award or the award of the contract.

- 25.0 PROPRIETARY INFORMATION: Any restrictions on the use of data contained within a request, shall be clearly stated in the bid/proposal itself. Proprietary information submitted in response to a request will be handled in accordance with applicable State of Wisconsin procurement regulations and the Wisconsin public records law. Proprietary restrictions normally are not accepted. However, when accepted, it is the vendor's responsibility to defend the determination in the event of an appeal or litigation.
 - 25.1 Data contained in a bid/proposal, all documentation provided therein, and innovations developed, as a result of the contracted commodities or services cannot by copyrighted or patented. All data, documentation, and innovations become the property of the Agency.

APPENDIX A: WISCONSIN WEATHERIZATION ASSISTANCE PROGRAM TERMS AND CONDITIONS

- 25.2 Any material submitted by the vendor in response to this request that the vendor considers confidential and proprietary information and which qualifies as a trade secret, as provided in s. 19.36(5), Wis. Stats., or material which can be kept confidential under the Wisconsin public records law, shall be identified on a Designation of Confidential and Proprietary Information form (DOA-3027). Bidders/proposers may request the form if it is not part of the Request for Bid/Request for Proposal package. Bid/proposal prices cannot be held confidential.
- 26.0 DISCLOSURE: If an Agency official, a member of an Agency official's immediate family, or any organization in which a Agency official or a member of the Agency official's immediate family owns or controls a ten percent (10%) interest, is a party to this agreement, and if this agreement involves payment of more than three thousand dollars (\$3,000) within a twelve (12) month period, this contract is voidable by the Agency unless appropriate disclosure is made according to s. 19.45(6), Wis. Stats., before signing the contract. Disclosure shall be made to the State of Wisconsin Ethics Board, 44 East Mifflin Street, Suite 601, Madison, Wisconsin 53703 (Telephone 608-266-8123).
- 27.0 RECYCLED MATERIALS: The Agency is required to purchase products incorporating recycled materials whenever technically and economically feasible. Bidders are encouraged to bid products with recycled content which meet specifications.
- 28.0 MATERIAL SAFETY DATA SHEET: If any item(s) on an order(s) resulting from this award(s) is a hazardous chemical, as defined under 29CFR 1910.1200, provide one (1) copy of a Material Safety Data Sheet for each item with the shipped container(s) and one (1) copy with the invoice(s).
- 29.0 PROMOTIONAL ADVERTISING / NEWS RELEASES: Reference to or use of the Agency or State of Wisconsin, any of its departments, or other sub-units, or any Agency or State of Wisconsin official or employee for commercial promotion is prohibited. News releases pertaining to this procurement shall not be made without prior approval of the Agency and the State of Wisconsin. Release of broadcast e-mails pertaining to this procurement shall not be made without prior written authorization of the Agency or the State of Wisconsin.
- 30.0 HOLD HARMLESS: The contractor will indemnify and save harmless the Agency and the State of Wisconsin and all of its officers, agents and employees from all suits, actions, or claims of any character brought for or on account of any injuries or damages received by any persons or property resulting from the operations of the contractor, or of any of its contractors, in prosecuting work under this agreement.
- **31.0 FOREIGN CORPORATION:** A foreign corporation (any corporation other than a Wisconsin corporation) which becomes a party to this

Agreement is required to conform to all the requirements of Chapter 180, Wis. Stats., relating to a foreign corporation and shall possess a certificate of authority from the Wisconsin Department of Financial Institutions, unless the corporation is transacting business in interstate commerce or is otherwise exempt from the requirement of obtaining a certificate of authority. Any foreign corporation which desires to apply for a certificate of authority should contact the Department of Financial Institutions, Division of Corporation, P. O. Box 7846, Madison, WI 53707-7846; telephone (608) 266-3590.

PART B - SUPPLEMENTAL TERMS AND CONDITIONS (REV.05/05/2017)

- 1.0 ACCEPTANCE OF BID/PROPOSAL CONTENT:
 The contents of the bid/proposal of the successful contractor will become contractual obligations if procurement action ensues.
- 2.0 CERTIFICATION OF INDEPENDENT PRICE DETERMINATION: By signing this bid/proposal, the bidder/proposer certifies, and in the case of a joint bid/proposal, each party thereto certifies as to its own organization, that in connection with this procurement:
 - 2.1 The prices in this bid/proposal 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 other bidder/proposer or with any competitor;
 - 2.2 Unless otherwise required by law, the prices which have been quoted in this bid/proposal have not been knowingly disclosed by the bidder/proposer and will not knowingly be disclosed by the bidder/proposer prior to opening in the case of an advertised procurement or prior to award in the case of a negotiated procurement, directly or indirectly to any other bidder/proposer or to any competitor; and
 - 2.3 No attempt has been made or will be made by the bidder/proposer to induce any other person or firm to submit or not to submit a bid/proposal for the purpose of restricting competition.
 - 2.4 Each person signing this bid/proposal certifies that: He/she is the person in the bidder's/proposer's organization responsible within that organization for the decision as to the prices being offered herein and that he/she has not participated, and will not participate, in any action contrary to 2.1 through 2.3 above; (or)

He/she is not the person in the bidder's/proposer's organization responsible within that organization for the decision as to the prices being offered herein, but that he/she has been authorized in writing to act as agent for the persons responsible for such decisions in certifying that such persons have not participated, and will not participate in any action contrary to 2.1 through 2.3 above, and he/she has not participated, and will not participate, in any action contrary to 2.1 through 2.3 above.

3.0 DISCLOSURE OF INDEPENDENCE AND RELATIONSHIP:

- 3.1 Prior to award of any contract, a potential contractor shall certify in writing to the Agency that no relationship exists between the potential contractor and the procuring or contracting Agency that interferes with fair competition or is a conflict of interest, and no relationship exists between the contractor and another person or organization that constitutes a conflict of interest with respect to a Agency contract. The Agency, with approval from the State of Wisconsin, may waive this provision, in writing, if those activities of the potential contractor will not be adverse to the interests of the Agency.
- 3.2 Contractors shall agree as part of the contract for services that during performance of the contract, the contractor will neither provide contractual services nor enter into any agreement to provide services to a person or organization that is regulated or funded by the contracting Agency or has interests that are adverse to the contracting Agency. The Agency, with approval from the State of Wisconsin, may waive this provision, in writing, if those activities of the contractor will not be adverse to the interests of the Agency.
- 4.0 **EMPLOYMENT:** The contractor will not engage the services of any person or persons now employed by the State of Wisconsin, including any department, commission or board thereof, to provide services relating to this agreement without the written consent of the employing Agency of such person or persons and of the contracting Agency.

5.0 RECORDKEEPING AND RECORD RETENTION:

5.1 The contractor shall establish and maintain adequate records of all expenditures incurred under the contract. All records shall be kept in accordance with generally accepted accounting procedures. All procedures shall be in accordance with federal, Agency and local ordinances.

The Agency and the state shall have the right to audit, review, examine, copy, and transcribe any pertinent records or documents relating to any contract resulting from this bid/proposal held by the contractor. The contractor (and any subcontractors) will retain all documents applicable to the contract for a period of not less than three (3) years after final payment is made.

Note that if any litigation, claim or audit is started at the Agency before the expiration date of the 3-year period, the contractor shall be notified by the Agency and shall retain records until all litigation, claims or audit findings involving records have been resolved and final action taken.

- 6.0 INDEPENDENT CAPACITY OF CONTRACTOR:
 - The parties hereto agree that the contractor, its officers, agents, and employees, in the performance of this agreement shall act in the capacity of an independent contractor and not as an officer, employee, or agent of the Agency. The contractor agrees to take such steps as may be necessary to ensure that each subcontractor of the contractor will be deemed to be an independent contractor and will not be considered or permitted to be an agent, servant, joint venturer, or partner of the Agency.
- 7.0 NON-PERFORMANCE BY CONTRACTOR: If the contractors and/or subcontractors do not fulfill obligations of this contract, they may be removed from the bidder's list for a period of 2 to 5 years.

8.0 BRAND NAME OR EQUAL:

- 3.1 The bidder shall list brand names and stock numbers for all exchanges. Substitutions are expected to be equal to or exceed the quality of specified items. The Agency has the right to reject any or all substitutions that do not meet minimum material standards.
- If items called for by this RFB have been 8.2 identified in the Schedule by a "brand name or equal" description, such identification intended to be descriptive, but not restrictive. and is to indicate the quality and characteristics of products that will be satisfactory. Bids offering "equal" products including products of the brand name manufacturer other than the one described by brand name will be considered for award if such products are clearly identified in the bids, and are determined by the Agency to meet fully the salient characteristic requirements referenced in the Invitation for Bid.
- 8.3 Unless the bidder clearly indicates in his/her bid that he/she is offering an "equal" product, the bid shall be considered as offering a brand name product referenced in the Invitation for Bid.
- **8.4** If the Bidder proposes to modify a product so as to make it conform to the requirements of the Invitation for Bid, he/she shall:
 - Include in his/her bid a clear description of such proposed modifications.
 - Clearly mark any descriptive material to show the proposed modifications.
- 8.5 Modifications proposed after bid opening to make a product conform to a brand name product referenced in the RFB will not be considered.
- 9.0 ONLY RECOURSE FOR PAYMENT IS WEATHERIZATION AGENCY: By agreeing to perform weatherization work the Vendor agrees to the following terms and agrees to pass along the following requirements to their suppliers and any subcontractors:

- **9.1** The Vendor agrees that they will not, under any circumstances, seek payment from the owner or occupant of the premises improved.
- 9.2 The Vendor shall not file, suffer or permit any lien or other encumbrance of record as a claim against any site of a weatherization project in recognition that the only recourse for payment is from the weatherization agency.
- When specified in the RFB, signed lien 9.3 waivers for each individual location/property are required (when the property to receive the improvement is identified) from all parties providing any labor and materials, including the Vendor, subcontractors and suppliers. The Vendor agrees to inform any party supplying labor and/or material to an identified property, prior to engaging such parties in providing weatherization services, that lien waivers are required in order for the Vendor to invoice the weatherization agency for the job.
- 10.0 Any lien notice action by a Vendor, and/or any of their subcontractors and/or material suppliers, against a property owner shall be considered non-performance by the terms and conditions of this contract, and the Vendor may be removed from the statewide weatherization agency bidder's list for a period of 2 to 5 years, as may any subcontractors and suppliers that take such action.
- 11.0 PAYMENTS OWED BY VENDOR: By engaging in a contract with the weatherization agency, the Vendor agrees that if they do not pay for materials and labor taking place through this weatherization contract, the weatherization agency has the option to use payments owed to the Vendor to pay such subcontractors and suppliers.
- 12.0 The Agency reserves the right to cancel this Contract in whole or in part without penalty, upon written notice to the Contractor if any lien notice action is taken by the Contractor, and/or any of their subcontractors and/or material suppliers, against a property owner.
- 13.0 Confidential, Proprietary, and Personally Identifiable Information: The contractor shall not use Confidential, Proprietary or Personally Identifiable Information ("Confidential Information") such as customer name and address for any purpose other than the limited purposes set forth in this Contract and all related and necessary actions taken in fulfillment of the obligations thereunder.
 - 13.1 The Contractor shall hold all Confidential Information in confidence and shall not disclose such Confidential Information to any persons other than those directors, officers, employees, and agents who have a business-related need to have access to such information in furtherance of the limited purposes of this Contract and who have been apprised of, and agree to maintain, the confidential nature of such information in accordance with the terms of this Contract.

- 13.2 Contractor shall require all such Representatives to read and sign a non-disclosure statement and shall be responsible for the breach of this Contract by any said Representatives.
- 13.3 Contractor shall institute and maintain such security procedures as are commercially reasonable to maintain the confidentiality of the Confidential Information while in its possession or control including transportation, whether physically or electronically.
- 14.0 LEAD SAFE REQUIREMENTS WEATHERIZATION PROGRAM: Whenever paint is disturbed in a dwelling constructed prior to 1978 that is not certified as lead-free, or painted surfaces to be disturbed have not tested free of lead, applicable lead safe requirements shall be followed. For such work, contractors shall demonstrate compliance with training and any related certification requirements, work practices, and documentation requirements. Contractors shall comply with current regulations of all authorities having jurisdiction.
 - 14.1 Weatherization Program Requirements: When a painted area disturbed is 6 ft² or less of interior surface per room or 20 ft² or less of exterior surface, and does not involve window replacement or demolition, lead safe setup, containment, and cleanup procedures shall be followed. Contractors shall document that lead safe work was performed by photographing setup, containment, and cleanup procedures.
 - 14.2 DHS Requirement: When a painted area disturbed is more than 6 ft² of interior surface per room, more than 20 ft² of exterior surface, or involves window replacement or demolition, a Department of Health Services (DHS) Certified Lead Safe Renovator shall be onsite to ensure proper setup, containment, and cleanup procedures are followed and a Weatherization Wisconsin Assistance Program Renovation Recordkeeping Checklist shall be completed for each job. Contractors shall document that lead safe work was performed by photographing setup, containment, and cleanup procedures.
- 15.0 ASBESTOS WEATHERIZATION PROGRAM:
 Contractors may encounter asbestos containing materials (ACM), or suspect ACM, during work on a weatherization job. Contractors shall comply with current regulations of all authorities having jurisdiction. According to the Wisconsin Department of Health Services (DHS), all building components except for metal, glass, wood, and fiberglass shall either be assumed to contain asbestos or proven not to contain asbestos through bulk sampling by a certified Asbestos Inspector and analysis by an accredited laboratory. Photo documentation of asbestos containment and safety practices is required.
 - **15.1 Operations and Maintenance (O&M)** Any worker who may disturb known or suspect ACM while performing contracted work shall

- complete O&M training, which allows no more ACM to be disturbed or incidentally removed than would fit into a 60" by 60" glove bag, properly filled and sealed.
- 15.2 Work Exceeding O&M Limits: If greater amounts of known or suspect ACM will be disturbed during contracted work, additional training and DHS certifications are required, including certification as Asbestos Company. Work exceeding the O&M limits shall be performed by individuals with DHS Asbestos Worker certification at minimum, and shall be supervised by a DHS certified Asbestos Supervisor.
- 15.3 Working with Transite (slate) Siding or Stucco Siding: Disturbance of these materials always requires DHS certification, regardless of the amount disturbed. Disturbance of slate siding requires an Exterior Asbestos Worker and/or an Exterior Asbestos Supervisor (the regular Asbestos Supervisor certification also allows for disturbance of slate siding). Stucco may only be disturbed by someone with Asbestos Worker certification (supervised by an Asbestos Supervisor) or an Asbestos Supervisor.
- 16.0 ASBESTOS EMERGENCY FURNACE SERVICE:
 Contractors may encounter asbestos containing materials (ACM), or suspect ACM, during work on an Emergency Furnace job. Contractors shall comply with current regulations of all authorities having jurisdiction.
 - 16.1 Operations and Maintenance (O&M): The Occupational Safety & Health Administration (OSHA) requires any worker who will disturb known or suspect ACM while performing contracted work shall complete O&M training, which allows no more ACM to be disturbed or incidentally removed than would fit into a 60" by 60" glove bag, properly filled and sealed.
 - 16.2 Work Exceeding O&M Limits: If greater amounts of known or suspect ACM will be disturbed during contracted work, additional training and DHS certifications are required, including certification as Asbestos Company. Work exceeding the O&M limits shall be performed by individuals with DHS Asbestos Worker certification at minimum, and shall be supervised by a DHS certified Asbestos Supervisor.
- 17.0 Byrd Anti-Lobbying Amendment (31 U.S.C 1352):
 Contractors who apply or bid for an award of \$100,000 or more shall file the required certification.
 Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with

APPENDIX A: WISCONSIN WEATHERIZATION ASSISTANCE PROGRAM TERMS AND CONDITIONS

obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.

18.0 PAYMENT BONDS: For all services contracts with the potential to exceed \$149,999 annually and where wholesaler or subcontractor partnerships will be utilized to deliver weatherization services, a payment bond is required on the part of the contractor in the amount of \$150,000 or the anticipated amount of the contract, whichever is greater. The anticipated amount of the contract shall be based upon the historical spend of the Agency, adjusted for any conditions in the best judgment of the Agency. The contractor shall provide proof of payment bond within thirty (30) business days of the receipt of the award letter. A payment bond is one executed in connection with a contract to ensure payment to all wholesalers and subcontractors performing work under the contract.



Lead Safe Work Form

Agency:	WisWAP BID:					
Address:						
PART A or B (or both) must be completed for every unit weatherized. If PART B is completed, one or more Renovation Recordkeeping Checklists must accompany this form in the customer file. Changes to planned work may require completion of a new form; in such cases, retain both completed forms in the customer file.						
	ill be performed using Lead Safe Work praction ninment (if applicable) at each paint disturban					
☐ This property was built in 1978 or late ☐ The following painted surfaces/comp Renovator and results were negative The following work will disturb no mo	painted surface during weatherization work. er and is not subject to Lead Safe Work requirent conents that will be disturbed have been tested be for lead (owner permission obtained). ore than 6 ft ² of interior painted surfaces per room not involve window or door replacement or any of	y a Certified				
	signed Certified Lead Safe Renovator to complet o ensure lead safe renovation practices are follow					
Brief Work Description	Agency/Contractor Name	Checklist Received				
Form Completed By (Print): (Energy Audito	or Part A / Final Inspector Part A-B)					
Signature:	Date:					

WisWAP BID#	
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Wisconsin Weatherization Assistance Program RENOVATION RECORDKEEPING CHECKLIST

Name of Company/Agency:	Date(s) of Renovation:
Address of Renovation:	
Name of Assigned Certified Lead Sat	e Renovator:
Name(s) of Trained Lead Safe Worke	rs used:
☐ Certified renovator provided training ☐ Posting warning signs ☐ Maintaining containment ☐ Waste handling ☐ Warning signs posted at entrance to ☐ Work area contained to prevent spriing ☐ All objects in the work area ☐ HVAC ducts in the work area ☐ Windows in the work area ☐ Windows in and within 20 ☐ ☐ Doors in the work area clos ☐ Doors in and within 20 feet ☐ Doors that must be used in ☐ Floors in the work area cov ☐ Ground covered by plastic of and weighted down by heavy ☐ If necessary, vertical contain property (exteriors) ☐ Waste contained on-site and while	ead of dust and debris: removed or covered (interiors) ea closed and covered (interiors) elosed (interiors) eet of the work area closed (exteriors) ed and sealed (interiors) of the work area closed and sealed (exteriors) the work area covered to allow passage but prevent spread of dust ered with taped-down plastic (interiors) extending 10 feet from work area—plastic anchored to building objects (exteriors) mment installed to prevent migration of dust and debris to adjacent being transported off-site
for removal ☐ Work area surfaces and obj (interiors)	up, protective sheeting misted, folded dirty side inward, and taped ects cleaned using HEPA vacuum and/or wet cloths or mops
☐ Certified Renovator performed pos number of wet and dry cloths used	t-renovation cleaning verification (describe results, including the):
☐ I certify under penalty of law that t	he above information is true and complete.
Signature of Assigned Certified Lead	Safe Renovator Date