# Weatherization Grantee Health and Safety Plan-Alaska

### ☐ POLICY SUBMITTED WITH PLAN

#### 1.0 - GENERAL INFORMATION

Grantees are encouraged to enter additional information here that does not fit neatly in one of the other sections of this document.

Because of the condition of many of the homes that are lived in by DOE eligible clients, Health and Safety improvements crucial to the implementation of energy efficiency work often exceeds even 20% of the average cost per unit. Traditionally AHFC has covered this with other funds but is choosing to utilize DOE funds as well this year. Those costs that exceed 20% will be covered by other budgets. Requesting 20% H&S.

We have limited the H&S category for DOE to the following:

Ground Vapor Retarder to reduce pollutants, radon and moisture from the ground into the living area.

Sump pump and or coverings

Crawl space ventilation strategies

Ventilation-whole house and spot, range hood-ASHRAE compliant

Heating System clean and tune and repair or replacement

Heating system stack and pipe repair and replacement, high temp caulk

Hot water heater replacement for H&S reasons, including stack and venting

LEAD RRP compliance costs/Asbestos/Mold/Pollutants

Carbon Monoxide and Smoke Alarms

Dryer Ducting to Outside

Client Education for Health and Safety

Worker Protection and OSHA Compliance

#### 2.0 - BUDGETING

Grantees are encouraged to budget Health & Safety (H&S) costs as a separate category and, thereby, exclude such costs from the average cost per unit cost (ACPU) limitation. This separate category also allows these costs to be isolated from energy efficiency costs in program evaluations. Grantees are reminded that, if H&S costs are budgeted and reported under the program operations category rather than the H&S category, the related H&S costs must be included in the calculation of the ACPU and cost-justified through the approved energy audit.

Sele	ct which option is used below.	
Separate Health and Safety Budget   ✓	Contained in Program Operations	

### 3.0 - HEALTH AND SAFETY EXPENDITURE LIMITS

H&S	Measure Matrix - O	ptional			
Doub	ole Click To Open Fo	r Editing			
Cells this shade auto calculate					
Enter Measure ↓	Auto Calculates				
GROUND VAPOR RETARDER	\$800.00	44.0%	\$352.00		
CRAWL VENTILATION	\$750.00	6.0%	\$45.00		
HEATING SYSTEM C&T	\$433.00	42.0%	\$181.86		
HEATING SYSTEM REPAIR	\$867.00	14.0%	\$121.38		
HEATING SYSTEM REPLACE-AVERAGE		0.0%	\$0.00		
WOOD	\$5,067.00	0.0%	\$0.00		
BOILER	\$9,167.00	3.0%	\$275.01		
MH	\$4,500.00	3.0%	\$135.00		
FURNACE	\$5,833.00	3.0%	\$174.99		
HS STACK AND CHIMNEY REPLACE	\$1,000.00	0.0%	\$0.00		
HOT WATER SYSTEM REPLACE	\$2,667.00	4.0%	\$106.68		
RANGE HOOD REPLACE	\$462.00	19.0%	\$87.78		
RANGE HOOD NEW INSTALL	\$643.00	6.0%	\$38.58		
VENTILATION FAN REPLACE	\$833.00	89.0%	\$741.37		
VENTILATION FAN NEW INSTALL	\$885.00	3.0%	\$26.55		
		0.0%	\$0.00		
RRP COPLIANCE/PPE/ASBES/MOLD/TOX	\$600.00	17.0%	\$102.00		
CO/SMOKE ALARMS	\$267.00	94.0%	\$250.98		
DRYER DUCTING	\$225.00	39.0%	\$87.75		
SUMP PUMP	\$1,000.00	3.0%	\$30.00		
Total Average H&S Cost Per Unit			\$2,756.93		
<b>Enter</b> Estimated Production (Annual File:	: IV.2 WAP Production	on Schedule) →			
<b>Enter</b> Estimated Program Operations Bud	lget →				
H&S Budget (Total Average H&S Cost Per	Unit * Estimated Pro	oduction)	\$0.00		
Requested H&S Percentage Per Unit (H&	S Budget/Program C	perations)			

# 4.0 - INCIDENTAL REPAIR MEASURES

Incidental Repairs means those repairs necessary for the effective performance or preservation of weatherization materials. Such repairs include, but are not limited to, framing or repairing windows and doors which could not otherwise be caulked or weather-stripped and providing protective materials, such as paint, used to seal materials installed under this program. (10 CFR 440 "Definitions")

No incidental repair measures will be assigned as an H&S measure.

### 5.0 - DEFERRAL/REFERRAL POLICY

Grantee has developed a comprehensive written deferral/referral policy that covers both H&S, and other deferral reasons.

Voc El No El
Yes ☑ No □ Where can this deferral/referral policy be accessed?
WOM 2020 Chapter 1 page 38.
6.0 – HAZARD IDENTIFICATION AND NOTIFICATION FORM(S)
Documentation forms must. be developed that include at a minimum: the client's name and address, dates of the audit/assessment and when the client was informed of a potential H&S issue, a clear description of the problem, a statement indicating if, or when weatherization could continue, and the client(s) signature(s) indicating that they understand and have been informed of their rights and options.
DOCUMENTATION FORMS HAVE BEEN DEVELOPED AND COMPLY WITH GUIDANCE?
Yes ☑ No □
7.0 – HEALTH AND SAFETY CATEGORIES  For each of the following H&S categories identified by DOE:
7.1 -Heating Systems
Concurrence, Alternative, or Deferral
Concurrence with Guidance ☐ Alternative Guidance ☑ Results in Deferral ☐
Air Conditioning Unallowable Measure   Heating Unallowable Measure
Funding     DOE ☑   LIHEAP ☑   State ☑   Utility □   Other □
DOE W CIHEAP W State W Ottnity L Other L
How do you address unsafe or non-functioning primary heating systems?
When a space conditioning system does not qualify as an ECM, the following conditions must be met before the unit can be replaced or repaired with Health and Safety funds. "Red tagged," inoperable, or nonexistent primary heating system may be replaced, repaired, or installed consistent with this guidance. Use proper sizing protocols (Heat loss calculation in AkWarm Software that is used to determine HS sizing. Unsafe primary units must be repaired or replaced, or deferral is required. There must be an identified and documented imminent H&S hazard (e.g. cracked heat exchanger) that necessitates the system replacement.  Much of our heating system work and replacements are completed using LIHEAP funds, and some use state funds, before utilizing DOE H&S funds. Also, even when replacing for H&S reasons, the majority of our heating systems carry an SIR of one or above so count as an ECM measure.
How do you address unsafe or non-functioning secondary heating systems, Including unvented secondary space
Replacement or installation of secondary units is not allowed with DOE funds. Unsafe secondary units, including space heaters, must be repaired, or deferral is required.  Both LIHEAP and State funds can be used to replace critical secondary units. Much of our state is subject to power outages so secondary units are critical for winter outages. In addition, we have many dual primary systems (used in tandem to provide distributed heat) and utilize these funds for those systems.
Indicate Documentation Required for At-Risk Occupants
N/A no cooling systems allowed in the AK Weatherization program.
Testing Protocols
Make sure primary systems are present, operable, and performing correctly. • Check DOE-approved audit to determine if the system can be installed as an energy conservation measure (ECM) prior to replacement as an H&S measure. • On combustion equipment, inspect chimney and flue and test for Combustion Appliance Zone (CAZ) depressurization. See the AK Combustion Safety Form. For solid fuel appliances look for visual evidence of soot on the walls, mantel or ceiling or creosote staining near the flue pipe.
Client Education

When deferral is necessary, provide information to the client, in writing, describing conditions that must be met in order for weatherization to commence. A copy of this notification must also be placed in the client file. Discuss appropriate use and maintenance of units, in addition to education about combustion safety and signs of depressurization. Provide all paperwork and manuals for any installed equipment. Discuss and provide information on proper disposal of bulk fuel tanks when not removed as part of the weatherization work.

#### Training

WAP H&S policy training is an allowable activity. CAZ depressurization test and inspection training. Heating system training for installers also allowed. Crews are trained in the installation and maintenance of systems where they do most of the work in rural Alaska.

## 7.2 - Asbestos - All

## What is the blower door testing policy when suspected Asbestos Containing Material (ACM) is identified?

Blower door testing is allowed where suspected friable ACM is present unless the suspected ACM is in such condition that it cannot be contained and may be introduced into the living space of the home. Vermiculite in attics is not a reason to not do blower door testing. Workers should use PPE and access should be from outside when working in attics with vermiculite. Air sealing should be completed before doing a blower door test. Seal the attic thoroughly and proceed with blower door testing. If the ACM is in such a condition that blower door testing cannot be done, the home may be deferred

blower door testing. If the ACM is in such a condition that blower door testing cannot be done, the home may be deferred.				
	7.2a – Asbestos - in sidir		tc.	
0 21 0 11 1	Concurrence, Altern		P k : D C 1 F	
Concurrence with Guidance	Alternative Guid	dance 🗹	Results in Deferral	
	Fundi	ing		
DOE  LIHEAP 5		Utility □	Other	
How do you address suspected	l ACM's in siding, walls, o weatherizati		be disturbed through the course of	
The existence of asbestos siding that is in good condition does not prevent installing dense-pack insulation from the exterior. Siding may be removed and reinstalled in order to perform the ECM, and the associated costs may be charged as part of the ECM. General abatement of asbestos siding or replacement with new siding is not an allowable H&S cost.				
	Testing Pro	otocols		
Visually inspect exterior wall surface and subsurface, floors, walls, and ceilings for suspected ACM prior to drilling or cutting. Use applicable work safe practice. Asbestos testing is not allowed using DOE funds.				
	Client Edu	ucation		
Inform the client in writing that suspected ACMs are present and what precautions will be taken to ensure the occupants' and workers' safety during weatherization. Formally notify client in writing of results if testing was performed.				
	Training and Certifica	tion Requirements		
Training focus needs to be on identification of possible vermiculite in all scenarios, the appropriate work safe practice for				
the situation, the AHJ in the area, and when deferral and possible abatement is needed. Abatement is not eligible under				
DOE funding. Also included in training is effective client education techniques addressing asbestos.				
7.2b – Asbestos - in vermiculite				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance	Alternative Guid		Results in Deferral	
DOE ☑ LIHEAP □	Fundi  State □	ng Utility □	Other 🗆	
How do you address suspected ACM's in vermiculite that will be disturbed through the course of weatherization				

When vermiculite is present, assume it contains asbestos unless testing determines otherwise. Use proper respiratory			
protection while in areas containing vermiculite. Removal is not allowed. If identified seal attic space from inside the house			
and do not disturb, blower door test (positive pressure testing preferred), proceed with other weatherization measures.			
When deferral is necessary due to asbestos, occupant must provide documentation that a certified professional performed			
the remediation before work continues.			
Testing Protocols			
AHERA sample collection and testing must be conducted by a certified tester. Baseline environmental asbestos sampling is			
an allowable cost.			
Client Education			
Instruct clients in writing not to disturb suspected ACM. Provide asbestos safety information to the client.			
Formally notify client in writing of results if testing was performed. When deferral is necessary, provide information in			
writing describing conditions that must be met in order for weatherization to commence.			
Training and Certification Requirements			
Training focus needs to be on identification of possible vermiculite in all scenarios, the appropriate work safe practice for			
the situation, the AHJ in the area, and when deferral and possible abatement is needed. Abatement is not eligible under			
DOE funding. Also included in training is effective client education techniques addressing asbestos.			
7.2c – Asbestos - on pipes, furnaces, other small covered surfaces			
Concurrence, Alternative, or Deferral			
Concurrence with Guidance    Alternative Guidance □ Results in Deferral □			
The state of the s			
DOE ☑ LIHEAP ☑ State ☑ Utility □ Other □			
DOE W LINEAR W State W Otthry L Other L			
How do you address suspected ACM's (e.g., pipes, furnaces, other small surfaces) that will be disturbed through the			
course of weatherization work?			
Assume asbestos is present in suspect covering materials. When suspected friable ACM is present, take precautionary			
measures as if it is asbestos unless testing determines otherwise. Grantee may allow removal or encapsulation by an			
appropriately trained professional on a case-by- case basis. Grantees will look at the savings that would be lost by			
deferring the home compared to the cost of the removal. Charge only those costs directly associated with the testing,			
encapsulation, or removal to the H&S budget category. When deferral is necessary due to asbestos, occupant must provide			
documentation that a certified professional performed the remediation before work continues.			
Testing Protocols			
Assess whether suspected ACMs are present. Proceed with work-safe practices. Testing is not an eligible expense.			
Client Education			
Instruct clients in writing not to disturb suspected ACM. Provide asbestos safety information to the client. Formally notify			
client in writing of results if testing was performed. When deferral is necessary, provide information in writing describing			
conditions that must be met in order for weatherization to commence.			
Training and Certification Requirements			
Training focus needs to be on identification of possible asbestos in all scenarios, the appropriate work safe practice for the			
situation, the AHJ in the area, and when deferral and possible abatement is needed. Abatement is not eligible under DOE			
funding. Also included in training is effective client education techniques addressing asbestos.			
7 5 Dialogicals and Humanitans Conditions			
7.5 – Biologicals and Unsanitary Conditions (odors, mustiness, bacteria, viruses, raw sewage, rotting wood, etc.)			
Concurrence, Alternative, or Deferral			
Concurrence with Guidance    Alternative Guidance □ Results in Deferral □			
Unallowable Measure			
Funding			

Utility

Other  $\square$ 

LIHEAP ☑

State 🗹

DOE 🗹

What guidance do you provide Subgrantees for dealing with biological and/or unsanitary conditions in homes slated for weatherization?				
Remediation of conditions that may lead to or promote biological concerns and unsanitary conditions is allowed. Addressing bacteria and viruses is not an allowable cost. Deferral may be necessary in cases where conditions in the home pose a health risk to occupants and/or weatherization workers. See Mold and Moisture section for more information.				
Testing Protocols				
Visual inspection, sensory inspection.				
Client Education				
Inform client in writing of observed conditions. Provide information on how to maintain a sanitary home. When deferral is necessary, provide information in writing describing conditions that must be met in order for weatherization to commence.				
Training				
Training focus needs to be on identification of biologicals and contaminants and solutions to remediation and prevention.				
Client education training in this area is also appropriate. All assessors and crew leads are trained to recognize contaminants				
that are threats to workers and occupants through OSHA training primarily.				
7.6 Puilding Standard and Doofing				
7.6 – Building Structure and Roofing Concurrence, Alternative, or Deferral				
Concurrence with Guidance Alternative Guidance Results in Deferral				
Funding				
DOE ☑ LIHEAP □ State □ Utility □ Other □				
What guidance do you provide Subgrantees for dealing with structural issues (e.g., roofing, wall, foundation) in homes slated for weatherization?				
Building rehabilitation is beyond the scope of the Weatherization Assistance Program. Homes that require major structural				
repairs must be deferred if other funds cannot be used to address them. See Mold and Moisture, Code Compliance, and				
Pests sections for more information.				
Testing Protocol				
Visual inspection. Ensure that access to the portions of the home where weatherization will occur are safe for entry and				
performance of assessments, work, and inspections.				
How do you define "minor" or allowable structure and roofing repairs, and at what point are repairs considered beyond the scope of weatherization?				
Minor or allowable structure and roofing repairs must be tied to a measure being done during weatherization work or to protect existing insulation and other energy related parts of the home. The cost must not go above \$1000 DOE funds per home. State and LIHEAP funds can be used to address more major repair. Grantees will look at the savings that would be lost by deferring the home compared to the cost of the repair.				
If priority lists are used, and these repairs are designated as Incidental Repairs, at what point is a site-specific audit required?				
All homes have a site-specific audit.				
Client Education				
Notify client in writing of structurally compromised areas. When deferral is necessary, provide information in writing				
describing conditions that must be met for weatherization to commence.				
Training				
How to identify structural and roofing issues. AK assessors are well trained in identifying structural deficiencies. We encourage peer exchange between agencies to help expand the knowledge on the existing housing stock. General classes on building structure and integrity and well as building science are allowable and encouraged.				
7.7 – Code Compliance				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance  Alternative Guidance  Results in Deferral				
Funding				

DOE 🗹	LIHEAP 🗹	State 🗹	Utility 🗆	Other
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What guida	ince do you provide S	Subgrantees for deal weatherizatio		ance issues in homes receiving
Correction of preex	isting code compliance			gered by weatherization
	alled in a specific room			
				rements with reference to
				le. Follow State and local
				ondemned properties and
	ed tagged" H&S condi-	tions exist that canno	t be corrected under the	nis guidance must be
deferred.				
TT! 17		Testing Prot	tocol	
Visual Inspection.		. 1 . 1	, .	4 C 4 LOTT 4
What specific sit	tuations commonly tr	ngger code compliai addres		ts for your network? How are they
		adure	sseu:	
Mechanical work in	HVAC systems. Egre	ess is another but not	allowed using DOE f	ınds.
		Client Ed		
Inform client in writ	ting of observed code	compliance issues wh	nen it results in adefer	ral.
				must be met in order for
weatherization to co			5	
		Trair	ning	
AHFC takes the lead	d within the state on co	odes. Adoption of the	e 2018 IRC is pending	and over the next two years various
				AHFC personnel will be taking classes.
Some of our jurisdic	ctions require permits	and inspections for th	e work that we do also	o. Training in codes is an eligible TTA
expense.				
			STORE AND ADDRESS OF	
		7.8 – Combu		
Concurrence, Alternative, or Deferral  Concurrence with Guidance   Alternative Guidance   Results in Deferral   Results in Deferral				
Concurrence with G	ruidance 🖭	Alternative Gu	idance ப	Results in Deferral
		Fund	linσ	
DOE 🗹	LIHEAP 🗹	State ☑	Utility 🗆	Other
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CO alarm is required to be installed at the assessment in every home. Proper venting to the outside for combustion appliances, including gas dryers and refrigerators, furnaces, vented space heaters and water heaters is required.				
				ation is necessary to perform
weatherization cannot be remedied by repair or tuning, replacement is an allowable H&S measure unless prevented by other guidance herein. Follow Standards in the AK WOM regarding Heating system replacement.				
				eating system replacement.
Use combustion safety and diagnostics form on every job regardless of funding.				
Use recommended test out procedures.  Testing Protocols				
Combustion safety testing is required when combustion appliances are present.  Test naturally drafting appliances for spillage and CO during CAZ depressurization testing pre- and post-				
weatherization and before leaving the home on any day when work has been done that could affect draft (e.g.,				
tightening the home, adding exhaust). Utilize BPI 1200 Protocols.				
Inspect venting of combustion appliances and confirm adequate clearances.				
Check AkWarm to determine if the appliance can be justified as an ECM prior to replacement as an H&S measure.  How are crews instructed to handle problems discovered during testing, and what are the specific protocols for				
addressing hazards that require an immediate response?				
Install CO alarm in the home at assessment. Utilize the CO specs in the Alaska standard that includes a display so that				
everyone can see current and peak levels. See WOM Chapter 5. Check for ambient CO continually when in the home and				
follow BPI 1200 protocols if CO exceeds actionable levels. If CO exceeds 70 ppm ambient advise the client and leave the				
house. Arrange to have the source of the CO disabled or repaired immediately. Do not re-enter until the situation has been				

corrected.

Client Education				
Provide client with combustion safety and hazards information. Train the client to set, utilize and understand the operation of the CO alarm.				
Training				
How to perform appropriate testing, determine when a building is excessively depressurized, and the difference between air free and as-measured CO. CO action levels. BPI 1200. DOE Wx providers will receive BPI 1200 training in November 2018.				
7.9 – Electrical				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance ☐ Alternative Guidance ☑ Results in Deferral ☐				
Funding				
DOE □ LIHEAP ☑ State ☑ Utility □ Other □				
What guidance do you provide Subgrantees for dealing with electrical hazards, including knob & tube wiring, in homes slated for weatherization?				
When the H&S of the occupant/worker(s) is at risk, minor repairs, as defined by the Grantee, are allowed when necessary for weatherization measures. Evaluate and if necessary provide sufficient over-current protection and damming (if required) prior to insulating building components containing knob and tube wiring, as required by the AHJ.				
Testing Protocol				
Visual inspection for presence and condition of damaged or dangerous wiring and knob-and-tube wiring. Check for				
alterations that may create an electrical hazard. Voltage drop and voltage detection testing are allowed.				
Very little knob and tube wiring in Alaska. We do have electrical repairs that come up. The use of state or LIHEAP funds is required.  How do you define "minor" or allowable electrical repairs, and at what point are repairs considered beyond the				
scope of weatherization?				
Minor electrical repairs must be tied to a measure being done during the weatherization or to protect the health and safety of the occupants or crews. Minor repairs are defined as under \$1000. State and LIHEAP funds only. No DOE funds.				
If priority lists are used, and these repairs are designated as Incidental Repairs, at what point is a site-specific audit required?				
N/A				
Client Education				
When electrical issues are the cause of a deferral, provide information to client on over-current protection, overloading circuits, and basic electrical safety/risks. If there are other questionable areas of electrical safety issue and H&S notice to the client and keep a signed copy in the file.				
Training				
How to identify electrical hazards. Local (or AHJ) code compliance. This will be covered somewhat in the code compliance training. But most agencies can access basic training in electrical safety on line. This is an eligible TTA expense.				
7.10 – Formaldehyde, Volatile Organic Compounds (VOCs), Flammable Liquids, and other Air Pollutants				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance Alternative Guidance Results in Deferral				
Funding  DOE ☑ LIHEAP ☑ State ☑ Utility □ Other □				
What guidance do you provide Subgrantees for dealing with formaldehyde, VOCs, flammable liquids, and other air pollutants identified in homes slated for weatherization?				

Removal of pollutants is allowed and is required if they pose a risk to workers.  If pollutants pose a risk to workers and removal cannot be performed or is not allowed by the client, the unit must be deferred.				
Testing Protocols				
Sensory/visual inspection.				
Client Education				
Inform client in writing of observed hazardous condition and associated risks. Issue a H&S notice regarding pollutants.				
When deferral is necessary, provide information in writing describing conditions that must be met for weatherization to commence.				
Training				
Informational training and guidance as needed				
7.11 – Fuel Leaks (please indicate specific fuel type if policy differs by type)				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance ☐ Alternative Guidance ☑ Results in Deferral ☐				
Th 14-				
Funding  DOE □ LIHEAP ☑ State ☑ Utility □ Other □				
State E Chility E Other E				
Remediation Protocols				
When a minor gas leak is found on the utility side of service, the utility service must be contacted before work may				
proceed. Fuel leaks that are the responsibility of the client (vs. the utility) must be repaired before weatherizing a unit. Use State or LIHEAP funds.				
Testing Protocol				
Test exposed gas lines for fuel leaks from utility coupling into, and throughout, the home. Conduct sensory				
inspection on bulk fuels to determine if leaks exist. Gas leaks must be tested with a leak detection fluid (soapy solution) for confirmation if a leak is suspected with initial testing.				
How do you define allowable fuel leak repairs, and at what point are repairs considered beyond the scope of weatherization?				
This is an allowable H&S measure using State and/or LIHEAP funds. Normally repairs should be under \$1000 but the Subgrantee can make a decision to spend more on repairing leaks is need. Note to file the condition.				
Client Education				
Inform clients in writing if fuel leaks are detected. Issue H&S notice.				
Training				
Fuel leak testing is a part of QCI and EA protocol for certification. This is part of any general weatherization training and eligible for DOE TTA funds.				
7.12 – Gas Ovens / Stovetops / Ranges				
Concurrence, Alternative, or Deferral  Concurrence with Guidance □ Alternative Guidance ☑ Results in Deferral □				
Concurrence with Guidance   Alternative Guidance   Results in Deferrat				
Funding				
DOE ☑ LIHEAP ☑ State ☑ Utility □ Other □				
What guidance do you provide Subgrantees for addressing unsafe gas ovens/stoves/ranges in homes slated for weatherization?				
Install CO alarm at assessment. Ensure operational range hood with gas ranges.				
When testing indicates a problem, entities may perform standard maintenance on or repair gas cooktops and ovens using State or LIHEAP funds. If repairs are not done, the client must be informed in writing about the problem. Follow BPI 1200 action levels.  Testing Protocols				

Test gas ovens for CO. Inspect cooking burners and ovens for operability and flame quality.

Client Education

Inform clients of the importance of using exhaust ventilation when cooking and the importance of keeping burners clean to limit the production of CO. Clients must be trained on the operation of the CO alarm so they can diagnose ongoing CO problems. The cook stove is perhaps the most likely source of CO in a home where people are standing right over it. This should be a part of client ed.

#### Training

Testing techniques. CO action levels, Per BPI 1200. All agencies will receive this training.				
resting techniques. Co action levels, 1 ct bi 1 1200. An agencies win receive this training.				
7.13 – Hazardous Materials Disposal   Lead, Refrigerant, Asbestos, Mercury (including CFLs/fluorescents), etc.  (please indicate material where policy differs by material)				
Concurrence, Alternative, or Deferral				
Concurrence with Guidance ☐ Alternative Guidance ☑ Results in Deferral □				
What guidance do you provide				
See disposal procedures.				
Funding				
DOE ☑ LIHEAP ☑ State ☑ Utility □ Other □  Client Education				
Chefit Education				
Inform client in writing of hazards associated with hazardous waste materials being generated/handled in the home.				
Training				
Appropriate Personal Protective Equipment (PPE) for working with hazardous wastematerials. Disposal requirements and				
locations. Health and environmental risks related to hazardous materials. OSHA training are eligible for TTA funds.				
Disposal Procedures and Documentation Requirements				
Hazardous Waste Materials generated during weatherization work shall be disposed of according to all local laws, regulations and/or Federal guidelines, as applicable. Document proper disposal requirements in contract language with responsible party. Refer to <i>Lead</i> and <i>Asbestos</i> sections for more information on those topics.				
7.14 - Injury Prevention of Occupants and Weatherization Workers				
(Measures such as repairing stairs and replacing handrails)				
Concurrence, Alternative, or Deferral  Concurrence with Guidance □ Alternative Guidance ☑ Results in Deferral □				
Concurrence with Guidance   Alternative Guidance   Results in Deferrar				
Funding				
DOE □ LIHEAP ☑ State ☑ Utility □ Other □				
What guidance do you provide Subgrantees regarding allowable injury-related repairs				
(e.g., stairs, handrails, porch deck board)?				
This is allowable under State/LIHEAP funds. If it is incidental to a measure it is included in the ECM or H&S item.  How do you define "minor" or allowable injury prevention measures, and at what point are repairs considered				
beyond the scope of weatherization? Quantify "minor" or allowable injury prevention measures.				
beyond the scope of weatherization? Quantify "minor" or allowable injury prevention measures.  Defining minor as under \$1000 generally. This category or repair is only allowed under State and LIHEAP funds. Follow				
Defining minor as under \$1000 generally. This category or repair is only allowed under State and LIHEAP funds. Follow guidance in the WOM. If not repaired issue a H&S notice to the client. If the repair is beyond the scope of weatherization resources, defer the job until corrected by the client.				
Defining minor as under \$1000 generally. This category or repair is only allowed under State and LIHEAP funds. Follow guidance in the WOM. If not repaired issue a H&S notice to the client. If the repair is beyond the scope of weatherization resources, defer the job until corrected by the client.  Training				
Defining minor as under \$1000 generally. This category or repair is only allowed under State and LIHEAP funds. Follow guidance in the WOM. If not repaired issue a H&S notice to the client. If the repair is beyond the scope of weatherization resources, defer the job until corrected by the client.				

# 7.15 - Lead Based Paint

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C '41		Concurrence, Alternativ		
Concurrence with	Guidance 🗹	Alternative Guidance	<u> </u>	Results in Deferral
		Funding		
DOE 🗹	LIHEAP 🗹	State	Utility 🗆	Other
		Safe Work Prote		
Crews must follow	w EPA's Lead; Renovation	on, Repair and Painting Pro	ogram (RRP)	) when working in pre-1978 housing
unless testing con	firms the work area to be	e lead free. Deferral is req	aired when th	he extent and condition of lead-based
paint in the house	would potentially create	further H&S hazards. On	ly those cost	s directly associated with the testing
and lead safe prac	ctices for surfaces directly	disturbed during weather	ization activ	ities are allowable.
		Testing Protoc	ols	
Testing to determ	ine the presence of lead i			measure installation is allowed with
				and justified. Job site set up and
		ator is required. Follow R		<b>J</b>
ordaning (orminal	ion of a commentation of	Client Educati		
Fallow was sonow	ation advantion provision			, provide information in writing describing
	•			, provide information in writing describing
conditions that m		eatherization to commence		
		raining and Certification		
				ed personnel on site at each pre 1978 job
		s recommended that all ass	essors and in	nspectors be RRP certified. This is an
eligible expense f	for TTA funds.			
		Documentation Requ	irements	
RRP requirements	s for field file documenta	tion must be followed. De	cumentation	n in the client file must include Certified
				ons taken; lead testing and assessment
documentation; as	nd, photos of site and con	tainment set up. Include t	ne location o	f photos referenced if not in file.
		7.16 – Mold and M	oisture	
(Including but no	ot limited to: drainage, gr			g, sump pumps, dehumidifiers, landscape,
		vapor retarders, moisture		
		Concurrence, Alternative		
Concurrence with		Alternative Guidance		Results in Deferral
Contemporary (1711)	O III O III			
		Funding		
DOE 🗹	LIHEAP 🗹	State 🗹	Utility	Other
DOE E	LINEAF E	State E	Office L	Other L
What and dance	. d		-i-t	4-4:
				ted issues (e.g., drainage, gutters, down
				rs) in homes slated for weatherization?
				re allowed when necessary in order to
				easures. Source control (i.e.
				n order to weatherize the home and to
				dependent of latent damage and
				erral is required. Mold testing or
				measures are being installed (e.g.,
cleaning mold off	window trim in order to	apply caulk) must be char	ged as part of	of the ECM, not to the H&S budget
category				
How do you de	fine "minor" or allowah	ole moisture-related meas	ures, and at	t what point is work considered beyond
		the scope of weather		
We are defining n	ninor as under \$1000 gen	erally. If the mold exceed	s allowable a	amounts per DOE and EPA, the home must
be deferred until o	corrected.			
		Client Educati	on	

Provide client written notification and disclaimer on mold and moisture awareness.

Provide information on importance of cleaning and maintaining drainage systems.

Provide information on proper landscape design and how this impacts site drainage and moisture control. When deferral is necessary, provide information in writing describing conditions that must be met in order for weatherization to commence.

Training

National curriculum on mold and moisture or equivalent. How to recognize drainage issues.

All providers have been trained but the training is available on line for those that have not or for refresher.

7.17 – Pests				
	Concurrence, Alternative	e, or Deferral		
Concurrence with Guidance	Alternative Guidance	· 🗹	Results in Deferral	
	Funding			
DOE □ LIHEAP ☑	State	Utility □	Other 🗆	
What guidance do you provide Subgrai	ntees for dealing with pes	ts and pest inti	rusion prevention in homes slated for	
	weatherization	1?		
Pest removal is allowed only where infesta	ation would prevent weathe	rization.		
Infestation of pests may be cause for defer	ral where it cannot be reas	onably removed	or poses H&S concern for	
workers. Incorporating pest exclusion into air sealing practices to prevent intrusion is allowed.				
Define Pest Infestation Thresholds, Beyond Which Weatherization Is Deferred				
State and LIHEAP funds can be used to eliminate pest infestations but anything over \$1000 must be approved prior to going				
forward.				
Testing Protocols				
Assessment of presence and degree of infestation and risk to worker.				
Client Education				
Inform client in writing of observed condition and associated risks. When deferral is necessary, provide information in				
writing describing conditions that must be met in order for weatherization to commence.				

Training

How to assess presence and degree of infestation and associated risks. All relevant training is an eligible TTA expense.

Most agencies received training in bed bug infestation within the past several years.

	7.18 – Radon							
	Concurrence, Alternative, or Deferral							
Concurrence with Guidance		Alternative Guidance   ✓		Results in Deferral				
		Funding	K					
DOE 🗹	LIHEAP 🗹	State 🗹	Utility 🗆	Other 🗆				
	What guid	lance do you provide Su	bgrantees arou	ind radon?				
Radon mitigat	ion is not an allowable H&	S cost. Clients must sign	n an informed co	onsent form prior to receiving				
_	weatherization services. This form must be kept in the client file. In homes where radon may be present, work scope							
		•		nt Protocols for Home Energy Upgrades,				
	-							
to reduce the possibility of making radon issues worse. Whenever site conditions permit, cover exposed dirt floors within								
the pressure/thermal boundary with 6 mil (or greater) polyethylene sheeting as described in the Field Guide. Other								
precautions may include, but are not limited to, sealing any observed floor and/or foundation penetrations, including open								
sump pits, isol	sump pits, isolating the basement from the conditioned space, and compliance with ASHRAE 62.2 2016.							
		Testing Prot						
Testing is not	an eligible expense.							

### **Client Education**

Provide all clients EPA's A Citizen's Guide to Radon and inform them of radon relatedrisks.

Informed consent form must include:

Information from the results of the IAQ Study that there is a small risk of increasing radon levels when building tightness is improved

A list of precautionary measures WAP will install based on EPA Healthy Indoor Environment Protocols.

Some of the benefits of Weatherization including energy savings, energy cost savings, improved home comfort, and increased safety

## **Training and Certification Requirements**

Auditors, assessors and inspectors must have knowledge of radon, what it is and how it occurs, including what factors may make radon worse, and precautionary measures that may be helpful. This is an eligible TTA expense. Workers are trained in proper vapor retarder installation.

#### **Documentation Requirements**

Written confirmation that EPA's A Citizen's Guide to Radon was received and radon related risks discussed with the client-

7.19 - Safety Devices: Smoke and Carbon Monoxide Alarms, Fire Extinguishers								
Concurrence, Alternative, or Deferral								
Concurrence with Guidance		Alternative Gui	dance 🗹	Results in Deferral				
	Funding							
DOE 🗹	LIHEAP 🗹	State	Utility 🗆	Other				
			**					
	What is your p	olicy for installatio	n or replacement of	the following:				
Smoke Alarms: S	Smoke alarms must be in	nstalled where alarm	s are not present or ar	e inoperable using DOE funds. If y	ou/			
are replacing alar	ms not yet expired use	State funds.	•					
CO Alarms: CO	alarms must be installed	l where alarms are no	ot present or are inope	rable using DOE funds. If you are				
replacing alarms not yet expired use State funds								
Fire Extinguisher	Fire Extinguishers: Fire extinguishers may be provided utilizing state or LIHEAP funds.							
		Testing I	Protocols					
Check existing al	Check existing alarms for operation. Verify operation of installed alarms. Follow WOM protocols.							
			ducation	<u> </u>				
Provide client wi	th verbal and written in	formation on use of o	devices installed.					
Training								
The interior of the state of th								
Training is provided in house at the Subgrantee agencies and by AHFC at monitoring if anyone is not compliant with the								
location and code requirements of alarm installs.								
	15.00	New / / / / And   1925	4W × 700	- 55°				
	7.20 - Occi	mont Health and So	efety Concerns and C	onditions				

location and code	requirements	n alai iii iiistai	15.			
			H 11 10 01			
	7.20		Health and Safety (		onditions	
		Conc	urrence, Alternativ	e, or Deferral		
Concurrence with	Guidance	A	Alternative Guidance □		Results in Deferral	
			Funding			
DOE 🗹	LIHEAP		tate 🗹	Utility 🗆	Other	
What guidance	ce do you prov	ide Subgrant	ees for soliciting the	occupants' hea	alth and safety concerns related to	
components of their homes?						
When a person's health may be at risk and/or WAP work activities could constitute an H&S hazard, the occupant						
will be required to take appropriate action based on severity of risk. Failure or the inability to take appropriate						
actions must result in deferral.						
What guidance do you provide Subgrantees for determining whether occupants suffer from health conditions that						
may be negatively affected by the act of weatherizing their home?						
Screen occupants to reveal known or suspected health concerns either as part of initial application for weatherization,						
during the audit, of	or both.					

What guidance do you provide Subgrantees for dealing with potential health concerns when they are identified?							
Follow required safety protocols when performing WAP work activities.							
Client Education							
Inform client in writing of any known risks	Inform client in writing of any known risks. Provide client with Subgrantee point of contact information in writing so						
client can inform of any issues. When defe	erral is necessary, provide inform	nation in writing describing conditions that					
must be met for weatherization to commen	ce.						
Documentation Form(s) have be	en developed and comply with a	guidance? Yes ☑ No □					
	- Ventilation and Indoor Air						
	oncurrence, Alternative, or De						
Concurrence with Guidance	Alternative Guidance	Results in Deferral					
	T						
DOE M LHEAD M	Funding Utility	Other 🗆					
DOE   LIHEAP   LIHEAP	State ☑ Utility	Other L					
Identify the Most Pagent Version	o of ASUDAE 62.2 Implement	ted (optional: identify Addenda used)					
ASHRAE 62.2 2016. All ventilation items							
	sting and Final Verification P						
		of existing fans and of installed equipment to					
verify performance. Use the blower door to							
verify performance. Ose the blower door to	Client Education	μιι.					
Educate the client in the use of the ventilat		stand that proper ventilation creates					
good indoor air quality and material longev							
	Training						
ASHRAE 62.2 training, including proper s		l new systems.					
Staff have had training at State Conference							
		specifically on ASHRAE 62.2 2016 in Nov.					
2018.							
	dow and Door Replacement, V						
	oncurrence, Alternative, or Do						
Concurrence with Guidance	Alternative Guidance	Results in Deferral					
	Funding						
DOE □ LIHEAP ☑	Funding State ☑ Utility	Other 🗆					
DOE LINEAL E	State E Othity	- Other -					
What guidance do you provide to Sub	grantees regarding window a	nd door replacement and window guards?					
Utilize state and LIHEAP funds in the replacement of windows and doors. And follow protocols in the WOM to replace as a H&S measure.							
	Testing Protocols						
N/A except for general Blower Door testing to ensure a good seal.							
Client Education							
Provide written information on lead risks wherever issues are identified.							
Training							
Awareness of guidance. General ongoing best practice training on site and at EOW, etc.							
7.23 – Worker Safety (OSHA, etc.)							
	oncurrence, Alternative, or De						
Concurrence with Guidance	Alternative Guidance	Results in Deferral					
	Funding						

DOE ☑ LIHEAP ☑ State ☑ Utility □ Other □						
Workers must follow OSHA standards where required and take precautions to ensure the H&S of themselves and other						
workers. All Subgrantees and contractors must maintain compliance with the current OSHA Hazard Communication						
Standard, including on-site organized Safety Data Sheets (SDS).						
How do you verify safe work practices? What is your policy for in-progress monitoring?						
Safe work practices are verified during in-progress monitoring, using photo documentation in the file, and client						
interviews when monitoring. We ensure at least one in progress inspection per year.						
Training and Certification Requirements						
Use and importance of PPE. OSHA 10 hour training is recommended for all crew members, crew foreman, auditors, and						
inspectors. OSHA 30 is recommended for Field Supervisors. Ongoing training as required in Hazard Communication						
Program. All OSHA training is eligible under DOE TTA.						

		7.24 – <ad< th=""><th>d in Topic&gt;</th><th></th><th></th></ad<>	d in Topic>		
		Concurrence, Alter	rnative, or Deferral		
Concurrence with Guidance		Alternative Guidance □		Results in Deferral	
		Fun	ding		
DOE 🗹	LIHEAP 🗹	State ☑	Utility 🗆	Other	
		Remediatio	on Protocols		
		Testing 1	Protocols		
		Client E	ducation		
		Trai	ining		