South Carolina Weatherization Health and Safety Plan

☑ 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.

For DOE funding, each subgrantee will have 12% of their program operations set aside for energy related health and safety repairs. The maximum amount of funds to be spent on health and safety per dwelling is \$1,050.

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.

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Separate Health and Safety Budget ☑

Contained in Program Operations

3.0 – Health and Safety Expenditure Limits

Pursuant to <u>10 CFR 440.16(h)</u>, Grantees must set H&S expenditure limits for their Program, providing justification by explaining the basis for setting these limits and providing related historical experience.

Low percentages should include a statement of what other funding is being used to support H&S costs, while larger percentages will require greater justification and relevant historical support. It is possible that these limits may vary depending upon conditions found in different geographical areas. These limits must be expressed as a percentage of the ACPU. For example, if the ACPU is \$5,000, then an average expenditure of \$750 per dwelling would equal 15 percent expenditures for H&S.

15 percent is not a limit on H&S expenditures but exceeding this amount will require ample justification. These funds are to be expended by the Program in direct weatherization activities. While required as a percentage of the ACPU, if budgeted separately, the H&S costs are not calculated into the per-house limitation. DOE strongly encourages using the table below in developing justification for the requested H&S budget amount. Each H&S measure the Grantee anticipates addressing with H&S funds should be listed along with an associated cost for each measure, and by using historical data the estimated frequency that each measure is installed over the total production for the vear.

It is also recommend reviewing recent budget requests, versus expenditures to see if previous budget estimates have been accurate. The resulting "Total Average H&S Cost per Unit" multiplied by the Grantee's production estimate in the Annual File <u>should</u> correlate to the H&S budget amount listed in the Grantee's state plan.

Should a Grantee request to have more than 15 percent of Program Operations used for health and safety purposes, DOE will conduct a secondary level of review. DOE strongly encourages use of this H&S template and matrix to help expedite this process

4.0 - INCIDENTAL REPAIR MEASURES

If Grantees choose to identify any H&S measures as incidental repair measures (IRMs), they must be implemented as such under the Grantee's weatherization program in all cases – meaning, they can never be applied to the H&S budget category. In order to be considered IRMs, the measure must fit the following definition and be cost justified along with the associated efficiency measure;

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")

INCIDENTAL REPAIRS

Any measure referenced in conjunction as an Energy Conservation Measure will be considered an Incidental Repair Measure, otherwise they will be considered a Health and Safety Measure. 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 weatherstripped and providing protective materials, such as paint, used to seal materials installed under this program.

The following measures will be performed as Incidental Repair Measures (IRM) when an Energy Conservation Measure (ECM) is installed that they could be attached to as an IRM. In accordance to WPN 12-9, IRMs are measures necessary for the effective performance or preservation of installed ECMs. If the measures cannot be attached as an IRM to an ECM, the measures may be charged to Health and Safety as a stand alone measure.

- Moisture Repairs
- Vapor Barrier
- Electrical Repairs

Repairing a small roof leak will be charged to Health and Safety when no attic insulation is installed, but will be charged to Incidental Repair Measures when attic insulation is installed.

The maximum amount of spending with DOE funds for incidental repairs per dwelling is \$500.

• The total cost of all IRMs, not to exceed \$500 is added to the cost of the package of weatherization measures to calculate the whole unit (SIR).

5.0 - DEFERRAL/REFERRAL POLICY

Deferral of services may be necessary if H&S issues cannot be adequately addressed according to WPN 17-06 guidance. The decision to defer work in a dwelling is difficult but necessary in some cases. This does not mean that assistance will never be available, but that work must be postponed until the problems can be resolved and/or alternative sources of help are found. If, in the judgment of the auditor, any conditions exist which may endanger the health and/or safety of the workers or occupants, the unit should be deferred until the conditions are corrected. Deferral may also be necessary where occupants are uncooperative, abusive, or threatening. Grantees must be specific in their approach and provide the process for clients to be notified in writing of the deferral and what conditions must be met for weatherization to continue. Grantees must also provide a process for the client to appeal the deferral decision to a higher level in the organization.

organization.
Grantee has developed a comprehensive written deferral/referral policy that covers both H&S, and other deferral reasons?
Yes ☑ No □
Where can this deferral/referral policy be accessed?
Weatherization PY 2021 State Plan, section V.1.2 Approach to Determining Building Eligibility

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 Form(s) have been developed and comply with guidance? Yes ☑ No □ Agencies shall use Form 107 Deferral of Service Notification to identify health & safety issues.

7.0 - HEALTH AND SAFETY CATEGORIES

For each of the following H&S categories identified by DOE:

- Explain whether you concur with existing guidance from WPN 17-07 and how that guidance will be implemented in your Program, if you are proposing an alternative action/allowability, or if the identified category will not be addressed and will always result in deferral. Alternatives must be comprehensively explained and meet the intent of DOE guidance.
- Where an Action/Allowability or Testing is "required" or "not allowed" through WPN 17-06, Grantees must concur, or choose to defer all units where the specific category is encountered.
- "Allowable" items under WPN 17-06 leave room for Grantees to determine if the category, or testing, will be addressed and
 in what circumstances.
- Declare whether DOE funds or alternate funding source(s) will be used to address the particular category.
- Describe the explicit methods to remedy the specific category.
- Describe what testing protocols (if any) will be used.
- Define minimum thresholds that determine minor and major repairs
- Identify minimum documentation requirements for at-risk occupants
- Discuss what explicit steps will be taken to educate the client, if any, on the specific category if this is not explained elsewhere in the Plan. Some categories, like mold and moisture, require client education.
- Discuss how training and certification requirements will be provided for the specific category. Some categories, like Lead Based Paint, require training.
- Describe how occupant health and safety concerns and conditions will be solicited and documented

Grantees may include additional H&S categories for their particular Programs. Additional categories must include, at a minimum, all of the same data fields as the DOE-provided categories. Two additional tables have been created to utilize.

7.1 – Air Conditioning and Heating Systems					
Concurrence, Alternative, or Deferral					
Concurrence w	vith Guidance 🗹	Alternative Gui	idance 🗹	Results in Deferral	
	Air Conditioning Unallowable Measure ☐ Heating Unallowable Measure ☐				
Funding					
DOE ☑	LIHEAP ☑	State □	Utility 🗆	Other 🗆	

How do you address unsafe or non-functioning primary heating/cooling systems?

Action/Allowability

When a space conditioning system does not qualify as an Energy Conservation Measure, the following conditions must be met before the unit can be replaced or repaired with Health and Safety funds:

- Agencies are to use alternative funds (LWAP) to pay for air conditioning repairs or replacement.
- At a minimum, a licensed South Carolina HVAC contractor is required to perform all work.
- Masonry chimneys used by vented space heaters should be properly lined in compliance with the International Fuel Gas Code (IFGC).
- Masonry chimneys that have been retired (i.e. not being used by existing equipment) should be assessed for energy savings opportunities such as air sealing and capping to reduce thermal bypass.

How do you address unsafe or non-functioning secondary heating systems, Including unvented secondary space heaters?

- Replacement or installation of secondary units is not allowed.
- Unsafe secondary units, including space heaters, must be repaired, removed or rendered inoperable, or deferral is required.

Indicate Documentation Required for At-Risk Occupants

N/A

Testing Protocols

Refer to the Retrofitting South Carolina Weatherization Field Guide, 2.0201.1 Combustion Appliance Zone (CAZ) Testing

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.
- 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.
- Where combustion equipment is present, provide safety information including how to recognize depressurization.
- Dirty or non-existent furnace filters shall be evaluated for replacement. Clients shall be instructed in proper intervals for replacement of the filters.

Training

Weatherization Assistance Program Health and Safety policy training on allowable activities.

- Licensing and/or certification for HVAC installers as required by authority having jurisdiction (AHJ).
- CAZ depressurization test and inspection training.

	7.2 - Asbestos - All					
	Concurrence, Alternative, or Deferral					
Concurrence with	Guidance 🗆 💮	Alternative Guidand	ce 🗆	Results in Deferral		
		Funding				
DOE ☑	LIHEAP 🗹	State □	Utility 🗆	Other 🗖		
What is the blow	er door testing policy	when suspected A	sbestos Containing	Material (ACM) is identified?		
When friable Asber	stos Containing Mate	rial (ACM) is suspec	ted, in the home, th	ne blower door test will not be		
		•		a certified professional		
certifies the suspec	cted material is either	r free of asbestos or	has been properly	remediated.		
	7.2a − Asbe	estos - in siding,	walls, ceilings,	etc.		
	Con	currence, Alternati	ve, or Deferral			
Concurrence with	Guidance ☑	Alternative Guidan	ice 🗆 Res	ults in Deferral		
		Funding				
DOE ☑	LIHEAP ☑	State	Utility 🗆	Other 🗆		
How do you addre of weatherization		in siding, walls, or c	eilings that will be	disturbed through the course		
				es. All precautions must be own asbestos containing		
				work in a way which would		
cause the transmission of asbestos dust into the air.						
Testing Protocols						
Visually inspect exterior wall surface and subsurface, floors, walls, and ceilings for suspected ACM.						
Client Education						
Inform the client that suspected asbestos siding is present and how precautions will be taken.						
	Train	ing and Certification	n Requirements			
OSHA Co	nstruction - 10 hour					
C - C -				the second second second		

• Safe practices for siding removal and replacement. How to identify asbestos containing materials.

	7	.2b – Asbestos	- in vermiculit	te	
		Concurrence, Alteri	native, or Deferra	l	
Concurren	ce with Guidance 🗹	Alternative Gui	idance 🗆	Results in Deferral 🗹	
		Fund	ling		
DOE 🗹	LIHEAP ☑	State □	Utility 🗆	Other \square	
How do yo	ou address suspected ACN	M's in vermiculite th	nat will be disturb	ed through the course of	
	ation work?				
Action/All	•				
	-	nt, assume it contair	ns asbestos unless	testing determines other	vise.
	Defer the house.				
				onal performed a test to v	erity
	hat the suspected vermic			at a colte a	
• (Jse proper respiratory pro			niculite.	
_ ^	shortes Hazard Emorgans	Testing P		alo collection and testing n	
	e conducted by a certified	•	980 (AREKA) Samp	ole collection and testing n	iust
U	be conducted by a certified	Client Ed	ucation		
• 1	nstruct clients in writing n				
	rovide asbestos safety inf	•			
				ibing conditions that must	he
	net for weatherization to		on in writing deser	ionig conditions that must	
		raining and Certifica	ation Requiremen	ts	
• (SHA Construction – 10 ho				
	outh Carolina Licensed As				
	7.2c – Asbestos - c	on pipes, furnac	es. other sma	II covered surfaces	
		Concurrence, Alteri			
Concurren	ce with Guidance 🗹	Alternative Gui		Results in Deferral 🗹	
		Fund	ling		
DOE 🗹	LIHEAP ☑	State □	Utility 🗆	Other	
			•		
How do yo	ou address suspected ACN	M's (e.g., pipes, furn	aces, other smal	surfaces) that will be dis	turbed
through th	e course of weatherization	on work?			
Action/All	owability				
	•	t in suspect covering	g materials.		
 Assume asbestos is present in suspect covering materials. When suspected friable ACM is present, defer the dwelling until testing determines otherwise. 					
	he removal of ACM is not		,	•	
• V	Vhen deferral is necessary	y due to asbestos, or	ccupant must prov	vide documentation that a	
	ertified professional perf				
		Tosting D			

Asbestos Hazard Emergency Response Act of 1986 (AHERA) sample collection and testing is allowed and

must be conducted by a certified tester.

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 for weatherization to commence.

Training and Certification Requirements

OSHA Construction – 10 hour - Training will include how to recognize asbestos insulation, potential asbestos containing material found in a home, and existing vermiculite that may contain asbestos. As well as how to avoid disturbing asbestos in any way.

	7.5 – Biologicals and Unsanitary Conditions				
	(odors, mustiness, k	oacteria, viruse	s, raw sewage	e, rotting wood, etc.)	
		Concurrence, Alter	native, or Deferr	al	
Concurr	ence with Guidance 🏻	Alternative Gu	idance 🗆	Results in Deferral ☑	
		Unallowable	Measure \square		
		Fund	ling		
DOE 🗹	LIHEAP ☑	State □	Utility 🗆	Other 🗆	
What gu	uidance do you provide Sub	grantees for dealing	g with biological	and/or unsanitary conditions in	
homes s	slated for weatherization?				
Action/	Allowability				
•	Remediation of conditions	that may lead to or	promote biologi	cal concerns and unsanitary	
	conditions is allowed.			pp-	
•	Addressing bacteria and vir	uses is not an allow	able cost.		
•	Deferral may be necessary	in cases where con	ditions in the hor	ne pose a health risk to	
	occupants and/or weather	rization workers.			
•	See Mold and Moisture sec	tion for more infor	mation.		
		Testing P	rotocols		
	Sensory inspection.				
		Client Ed	ucation		
•	Inform client in writing of observed conditions.				
•	 Provide information on how to maintain a sanitary home. 				
•	 When deferral is necessary, complete Deferral Form# 107 describing conditions that must be 				
	met for weatherization to commence.				
		Trair			
•	How to recognize unsafe co				
•	Safe work practices when e		onditions.		
•	OSHA Construction - 10 hour				

7.6 – Building Structure and Roofing
Concurrence, Alternative, or Deferral
Concurrence with Guidance ☐ Alternative Guidance ☑ Results in Deferral ☐
Funding
DOE ☑ LIHEAP ☑ State □ Utility □ Other □
Incidental and minor repairs, as defined below, are allowable. Otherwise, project will be deferred until area
of repairs can be corrected or eliminated through other funding sources.
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 more than minor repairs must be deferred
How do you define "minor" or allowable structure and roofing repairs, and at what point are repairs
considered beyond the scope of weatherization?
Incidental Repairs for Minor work
Funds will be used for incidental repairs of building structure and roofing. If no attic insulation is installed
and the repair cannot be an incidental repair, then a minor repair may be done under Health & Safety.
Beyond Scope of Weatherization
Homes with conditions that require more than incidental repairs have to be deferred.
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
Energy Auditors shall inform the residents of the potential hazard and recommendation to seek remedy
of the condition.
How to identify structural and roofing issues.
OSHA Construction – 10 hr
OSHA CONSTRUCTION — 10 III
7.7 – Code Compliance
Concurrence, Alternative, or Deferral
Concurrence with Guidance □ Alternative Guidance ☑ Results in Deferral ☑
Attendance To At
Funding
DOE □ LIHEAP ☑ State □ Utility □ Other □
Correction of preexisting code compliance issues is not an allowable cost other than where triggered by
weatherization measures being installed in a specific room or area of the home.
When correction of preexisting code compliance issue(s) is related to an installed weatherization measure(s),
cite specific code requirements with reference to the weatherization measure(s) that are related to the code
compliance issue, shall be in the client file. LWAP funds shall be utilized to address this particular health and
safety category.

What guidance do you provide Subgrantees for dealing with code compliance issues in homes receiving weatherization measures?

When a condition cannot be corrected within the Incidental Repair costs category, work should be deferred.

When applicable, code violations shall be listed on Form 107 Deferral Notification.

What specific situations commonly trigger code compliance work requirements for your network? How are they addressed?

Follow State and local codes while installing weatherization measures.

- Condemned and "red tagged" properties where health and safety conditions exist that cannot be corrected under this guidance must be deferred.
- If code issues are cause for deferral, or if code compliance work is triggered by weatherization work, the agency must cite the specific code in the client file.

Client Education

- Inform client in writing of observed code compliance issues when it results in a deferral.
- When deferral is necessary, complete Deferral Form# 107 describing conditions that must be met for weatherization to commence.

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		u		ш				ш	s

OSHA Construction – 10 hour

7.8 – Combustion Gases				
Co	ncurrence, Altern	ative, or Deferra		
Concurrence with Guidance ✓	Alternative Gui	dance \square	Results in Deferral	
	Fundi	ing		
DOE ☑ LIHEAP ☑	State □	Utility 🗆	Other	
Action/Allowability				
 Proper venting to the outside for combustion appliances, including gas dryers and furnaces, vented space heaters and water heaters is required. Correct venting when testing indicates a problem. If unsafe conditions whose remediation 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. Maintain documentation justifying the replacement with a cost comparison between 				
replacement and repair in the client file.				
	Testing Pr	otocols		
			·	

- Combustion safety testing is required when combustion appliances are present.
- Test naturally drafting appliances for spillage and CO during CAZ depressurization testing preand 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).
- Inspect venting of combustion appliances and confirm adequate clearances.
- Check DOE-approved audit to determine if the appliance can be justified as an ECM prior to replacement as an H&S measure.
- Potential CO related health and safety concerns shall be discussed with the client. The client shall be immediately advised of any serious concerns relative to CO.

How are crews instructed to handle problems discovered during testing, and what are the specific protocols for addressing hazards that require an immediate response?

- Testing must be conducted before work begins and after work is completed and, for some tests, at the end of each work day.
- Subgrantees will provide proper venting and minor heating system repairs when necessary to ensure indoor air quality and mitigate combustion gas hazards.
- In cases where serious hazards exist that cannot be resolved with weatherization program funding, work on the unit will be deferred.
- When any combustion gas hazard is detected, subgrantees will notify owners and occupants.

Client Education

- Provide client with combustion safety and hazards information.
- Provide client with Owner's Manual and Warranty papers.

Training

- How to perform appropriate testing, determine when a building is excessively depressurized, and the difference between air free and as-measured CO.
- BPI 1200 Carbon Monoxide Action Levels.

	7.9 – Electrical				
	Co	ncurrence, Alternat	ive, or Deferral		
Concurrence with Gu	with Guidance Alternative Guidance			Results in Deferral ☑	
		Funding	3		
DOE ☑ L	JHEAP ☑	State	Utility 🗆	Other 🗆	
What guidance do yo wiring, in homes slat	7		rith electrical ha	azards, including knob & tube	
Electrical re	pairs and installat	ion must be done by	a licensed elect	rician.	
If live knob a	and tube wiring is	evident, defer the w	eatherization w	ork.	
		Testing Prot	ocols		
Visual inspe	ction for presenc	e and condition of ki	nob-and-tube w	riring.	
 Check for al 	Iterations that ma	y create an electrica	l hazard.		
 Voltage dro 	p, and voltage de	tection testing are a	lowed.		
How do you define "	minor" or allowa	ble electrical repairs	s, and at what p	point are repairs considered	
beyond the scope of					
				rawlspaces, repairing wall	
•	receptacles, repairing switches, and defective lighting fixtures, securing loose wiring, replacing				
a malfunctioning breaker. Rewiring an entire dwelling is beyond the scope of weatherization.					
•	•	airs are designated	as Incidental R	epairs, at what point is a site-	
specific audit require					
South Carol	lina does not utiliz	•			
Client Education					
When electrical issues are the cause of a deferral, provide information to client on over-current					
protection,	overloading circu	its, and basic electric	al safety/risks.		
		Training	3		
	electrical hazards.				
 OSHA Const 	OSHA Construction - 10 hour				

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** LIHEAP 🗹 DOE 🗹 State □ Utility □ Other \square What guidance do you provide Subgrantees for dealing with formaldehyde, VOCs, flammable liquids, and other air pollutants identified in homes slated for weatherization? **Action/Allowability** 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. Refer to Hazardous Materials Disposal section for more information. **Testing Protocols** Sensory inspection **Client Education** Inform client in writing of observed hazardous condition and associated risks. Provide client written materials on safety issues and proper disposal of household pollutants. When deferral is necessary, provide information in writing describing conditions that must be met for weatherization to commence. **Training** How to recognize potential hazards and when removal is necessary.

	7.11 – Fuel Leaks					
	(please indica	te specific fuel	type if policy d	iffers by type)		
		Concurrence, Alter	native, or Deferra			
Concurrence wit	th Guidance 🗹	Alternative Gu	idance 🗆	Results in Deferral		
		Fund	ding			
DOE ☑	LIHEAP 🗹	State □	Utility 🗆	Other 🗆		
		Remediatio	n Protocols			
contac • Fuel le weath • Notify respor	eted before work manaks that are the resperizing the dwelling. the utility company and insibility of the utility	y proceed. onsibility of the clie and temporarily hal to address.	ent (vs. the utility), It work when leaks	utility service must be must be repaired before are discovered that are the d throughout, the home.		

How do you define allowable fuel leak repairs, and at what point are repairs considered beyond the scope of weatherization? 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. Notify utility company and temporarily halt work when leaks are discovered that are the responsibility of the utility to address. Client Education Complete Deferral Form# 107 if fuel leaks are detected. Notify client.

Fuel leak testing

Carbon Monoxide Action Levels

7.12 – Gas Ovens / Stovetops / Ranges							
	Concurrence, Alternative, or Deferral						
Concurrence with Guidance 🗹	Alternative Guid	dance 🗆	Results in Deferral				
	Fundi	ng					
DOE ☑ LIHEAP ☑	State □	Utility 🗆	Other \square				
What guidance do you provide S	ubgrantees for address	sing unsafe gas ov	ens/stoves/ranges in homes				
slated for weatherization?							
Action/Allowability							
 When testing indicates a 	a problem, standard ma	intenance on gas	cooktops and ovens is				
allowed.							
 Replacement is not allow 	ved.						
	Testing Pro	otocols					
 Test gas ovens for CO. 							
 Inspect cooking burners 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.							
	Traini	ng					
 Testing techniques 							

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 Alternative Guidance □ Results in Deferral **Funding** DOE ☑ LIHEAP ☑ State □ Utility □ Other \square **Client Education** Inform client in writing of hazards associated with hazardous waste materials being generated and handled in the home. **Training** Appropriate Personal Protective Equipment (PPE) for working with hazardous waste materials. Disposal requirements and locations. Health and environmental risks related to hazardous materials. OSHA certification requirements for handling hazardous materials. **Disposal Procedures and Documentation Requirements**

Action/Allowability

and Safety.

- 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 Lead and Ashestos sections for more information on those tonics.

Refer to Lead and Abbestos 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, Alternati	ve, or Deferra			
Concurrence with Guidance ☐ Alternative Guidance ☐ Results in Deferral ☐				Results in Deferral		
		Funding				
DOE 🗆	LIHEAP ☑	State □	Utility 🗆	Other 🗆		
_	dance do you provide Sub	•	wable injury-	related repairs		
(e.g., stairs, handrails, porch deck board)?						
Action/Allowability						
 Inspect for dangers that would prevent weatherization. 						
 If conditions will not be repaired, inform client in writing of observed hazards and associated 						
risks.						
When necessary to effectively weatherize the home, workers may make minor repairs and						
installations.						
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						

Repairs of stairs and installation of handrails may be conducted only when necessary to effectively weatherize the home and may be charged according to the guidelines in WPN 19-5 to either Incidental Repairs or Health

Training	
Identifying hazards.	
OSHA Construction – 10 hours	

Concurrence with Guidance Alternative, or Deferral Results in Deferral Funding DOE LIHEAP State Utility Other Safe Work Protocols Action/Allowability Crews must follow EPA's Lead; Renovation, Repair and Painting Program (RRP) when working in pre-1978 housing unless testing confirms the work area to be lead free. Deferral is required when the extent and condition of lead-based paint in the house would potentially create further H&S hazards. Only those costs directly associated with the testing and lead safe practices for surfaces directly disturbed during weatherization activities are allowable. Documentation in the client file must include certified renovator certification; any training provided on-site; description of specific actions taken; lead testing and assessment documentation; and photos of site and containment set up. Include the location of photos referenced if not in file. Testing Protocols Testing to determine the presence of lead in paint that will be disturbed by WAP measure installation is allowed with EPA-approved testing methods. Testing methods must be economically feasible and justified. Job site set up and cleaning verification by a Certified Renovator is required. SC OEO will-verify that contractors and crews are using lead safe work practices during monitoring. Client Education Follow pre-renovation education provisions for RRP. When deferral is necessary, complete Deferral Form# 107 describing conditions that must be met for weatherization to commence. Training and Certification Requirements All employees and contractors working on pre-1978 homes must receive training to install measures in a lead-safe manner in accordance with the SWS and EPA protocols, and installation must be overseen by an EPA Certified Renovator.	7.15 – Lead Based Paint					
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must be overseen by an EPA Certified Renovator.	•					
	·					
State monitors required to have the Renovation, Repair and Painting Program (RRP) course. Program and the Renovation Repair and Painting Program (RRP) course.						
Documentation Requirements Document Lead Safe Weatherization Protocols on Form # 103A Lead Safe Renovator						

7.16 - Mold and Moisture

(Including but not limited to: drainage, gutters, down spouts, extensions, flashing,					
sump pumps, dehumidifiers, landscape, vapor retarders, moisture barriers, etc.)					
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 moisture related issues (e.g., drainage,					
gutters, down spouts, moisture barriers, dehumidifiers, vapor barrier on bare earth floors) in homes slated					
for weatherization?					
Source control (i.e. correction of moisture and mold creating conditions) is allowed when					
necessary to weatherize the home and to ensure the long-term stability and durability of the					
measures. Source control is independent of latent damage and related repairs.					
Where severe Mold and Moisture issues cannot be addressed, deferral is required.					
Mold cleanup is not an allowable H&S cost. Surface appropriate with an expectation appropriate property in the last installed (a.g., place) in property in the last installed (b.g., place) in the last inst					
Surface preparation where weatherization measures are being installed (e.g., cleaning mold off window trips to apply south a charged as part of the FCM, got to the USS by deet.					
window trim to apply caulk) must be charged as part of the ECM, not to the H&S budget category.					
 Visual assessment including exterior drainage. 					
 Diagnostic tools such as moisture meters are recommended for pre-weatherization and at the 					
Diagnostic tools such as moisture meters are recommended for pre-weatherization and at the final inspection.					
Mold testing is not an allowable cost.					
How do you define "minor" or allowable moisture-related measures, and at what point is work considered					
beyond the scope of weatherization?					
Limited water damage repairs that can be addressed by weatherization workers are allowed					
when necessary to weatherize the home and to ensure the long-term stability and durability of					
the measures.					
Client Education					
Provide client written notification and disclaimer on mold and moisture awareness utilizing					
Mold and Moisture Form# 102.					
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, complete Deferral Form# 107 describing conditions that must be must forward principle to accompany.					
met for weatherization to commence.					

Training

- Specific Training for Mold & Moisture (Tier 2 Training).
- How to recognize drainage issues.
- OSHA Construction 10 hours

7.17 – Pests						
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 pests and pest intrusion prevention in home						
slated for weatherization?						
 Pest removal is allowed only where infestation would prevent weatherization. 						
Screening of windows and points of access to incorporate pest exclusion into air sealing						
practices and to prevent intrusion is allowed.						
Define Pest Infestation Thresholds, Beyond Which Weatherization Is Deferred						
Infestation of pests may be cause for deferral where it cannot be reasonably removed or poses						
H&S concern for workers.						
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. No and of small in a case of the Defended Format (107) depositions and distinguish to the condition of the conditions and the conditions and the conditions are conditions as the conditions are conditional conditions.						
When deferral is necessary, complete Deferral Form# 107 describing conditions that must be						
met for weatherization to commence.						
Training						
How to assess presence and degree of infestation, associated risks, and deferral policy. OSHA Construction – 10 hours						
7.18 – Radon						
Concurrence, Alternative, or Deferral						
Concurrence with Guidance ✓ Alternative Guidance □ Results in Deferral □						
Finalian						
Funding DOE ☑ LIHEAP ☑ State □ Utility □ Other □						
State D Other D						
What guidance do you provide Subgrantees on radon?						
All counties in South Carolina have some risks of radon.						
 Clients must sign the Radon Informed Consent form prior to receiving weatherization services. 						
This form must be kept in the client file.						
Radon mitigation is not an allowable H&S cost.						
Testing Protocols						
Free testing is made available to all weatherization clients through the South Carolina Department						
of Environmental and Quality Control.						
Client Education						
Provide all clients EPA's "A Citizen's Guide to Radon".						
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.						
 Auditors, assessors, inspectors, and contractors must have taken the OSHA Construction 10- 						
hour course.						
Documentation Requirements						
Radon Notification Form #108						

7.19	– Safety Devices: Smoke and Carbon Monoxide Alarms, Fire Extinguishers						
	Concurrence, Alternative, or Deferral						
Concurre	Concurrence with Guidance ☑ Alternative Guidance □ Results in Deferral □						
	Funding						
DOE 🗹	LIHEAP ☑ State □ Utility □ Other □						
701 =	Emilian E state E state, E state E						
	What is your policy for installation or replacement of the following:						
Smoke A							
•	Smoke alarms may be installed where alarms are not present or are inoperable.						
•	Smoke alarms must be UL 217.						
Carbon N	Nonoxide Alarms:						
•	CO alarms must be UL 2034 listed and OSHA compliant.						
•	In accordance to ASHRAE 62.2 (2016), all weatherized dwellings shall have at least one UL listed CO						
	alarm installed						
Fire Fytir	nguishers:						
	guishers are not allowable.						
THE EXTI	Testing Protocols						
•	Check existing alarms for operation.						
	Verify operation of installed alarms.						
-	Client Education						
	Provide client with verbal and written information on use of devices installed.						
	Training						
•	Where to install alarms.						
	Local code compliance.						
	Local code compilance.						
	7.20 Occupant Health and Safety Concerns and Conditions						
	7.20 – Occupant Health and Safety Concerns and Conditions						
Concurre	Concurrence, Alternative, or Deferral nce with Guidance ☑ Alternative Guidance □ Results in Deferral □						
Concurre	Tice with duidance Alternative duidance Results in Deferrat						
	Funding						
DOE 🗹	LIHEAP ☑ State □ Utility □ Other □						
DOL E	CITICAT EL State EL Ottility EL Ottile EL						
What gu	dance do you provide Subgrantees for soliciting the occupants' health and safety concerns related						
_	onents of their homes?						
-	How to assess occupant preexisting conditions and determine what action to take if the home is						
 How to assess occupant preexisting conditions and determine what action to take if the home is not deferred. 							
 Awareness of potential hazards. 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, or both.							
What guidance do you provide Subgrantees for dealing with potential health concerns when they are identified?							
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.							
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Client Education 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 deferral is necessary, complete Deferral Form# 107 describing conditions that must be met for weatherization to commence. Documentation Form(s) have been developed and comply with guidance? Yes ☑ No ☐ Deferral form 107 - http://oeo.sc.gov/weatherizationdocs.html

7.21 – Ventilation and Indoor Air Quality					
Concurrence, Alternative, or Deferral					
Concurrence with Guidance ☑ Alternative Guidance □ Results in Deferral □					
	Fund	ing			
DOE ☑ LIHEAP ☑	State □	Utility 🗆	Other \square		
Identify the Most Recent Version of A	ASHRAE 62.2 Imple	emented (optiona	l: identify Addenda used)		
ASHRAE 62.2 - 2016					
Tes	sting and Final Ver	rification Protocol	S		
 Install ventilation as required 	by ASHRAE 62.2 -	- 2016.			
 The Residential Energy Dyna 	mics REC Calc ASH	IRAE 62.2-2016 on	lline tool will be used to		
determine ventilation requirements.					
 Measure fan flow of existing fans and of installed equipment to verify performance 					
Client Education					
 Provide client with information on function, use, and maintenance (including location of service 					
switch and cleaning instructions) of ventilation system and components.					
 Provide client with equipment manuals for installed equipment. 					
Training					
ASHRAE 62.2 training, including proper sizing, evaluation of existing and new systems.					

7.22 – Window and Door Replacement, Window Guards					
		Concurrence, Alteri	native, or Deferra	ıl	
Concurrence with Guidance ☑ Alternative Guidance ☑ Results in Deferral □					
		Fund	ling		
DOE 🗆	LIHEAP 🗹	State \square	Utility 🗖	Other 🗆	
What guidance	e do you provide to S	ubgrantees regardi	ng window and d	oor replacement and window	
guards?					
Doors and windows are allowed to be replaced using LWAP funds with a SIR less than 1.0 not					
included in the cumulative SIR. Documentation must be provided.					
Testing Protocols					
Not applicable					
Client Education					
Provide written information on lead risks wherever issues are identified.					
Training					
Awareness of guidance.					

7.23 – Worker Safety (OSHA, etc.)						
Concurrence, Alternative, or Deferral						
Concurrence	Concurrence with Guidance ☑ Alternative Guidance □ Results in Deferral □					
		Fund	ling			
DOE ☑	LIHEAP 🗹	State \square	Utility 🗖	Other \square		
How do you v	erify safe work praction	ces? What is your p	olicy for in-progr	ess monitoring?		
Action/Allowability						
 Workers must follow OSHA standards where required and take precautions to ensure the H&S of 						
ther	nselves and other worl	kers.				
All Subgrantees and contractors must maintain compliance with the current OSHA Hazard						
Communication Standard, including on-site organized Safety Data Sheets.						
 QCI will conduct at least one in-progress inspection if available and time permits to verify that 						
Subgrantees, crews and contractors follow safe work practices.						
Training and Certification Requirements						
Use and importance of PPE.						
 Safety training appropriate for job requirements. OSHA 10 hour training meets this requirement. 						

- Safety training appropriate for job requirements. OSHA 10-hour training meets this requirement.
- Ongoing training as required in Hazard Communication Program.

