Weatherization Grantee Health and Safety (H&S) Plan- *Optional Template Kansas*

1.0 – GENERAL INFORMATION

Additional information that does not fit neatly in one of the other sections of this document.

Enter Additional H&S Information Here

2.0 - BUDGETING

Grantees are encouraged to budget H&S costs as a separate category and, thereby, exclude such costs from the Average Cost Per Unit (ACPU) cost limitation. This separate category also allows these costs to be isolated from energy efficiency costs in program evaluations. H&S costs that 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 Grantee's Department of Energy (DOE)-approved energy audit tool.

Select which option used below.

Separate H&S Budget ☑

Contained in Program Operations

3.0 – H&S EXPENDITURE LIMITS

Pursuant to 10 CFR 440.16(h), Grantees must establish H&S expenditure limits for their Program and provide justification for those limits by explaining the basis and related historical H&S expenditures. DOE acknowledges that it may be necessary for Grantees to deviate from historical expenditures when certain circumstances arise (e.g., funding source changes).

 $\underline{10 \ CFR \ 440.16(h)(2)}$ dictates that these limits must be expressed as a percentage of the ACPU. To calculate this percentage, use the following formula:

 $Total\ Average\ H\&S\ Cost\ per\ Unit = \frac{H\&S\ budget\ amount}{Program\ Operations\ budget\ amount}$

For example, if the ACPU is \$5,000 and a Grantee's Program expends an average of \$750 per dwelling on energy-related H&S measures, the Total Average H&S Cost per Unit would equal 15 percent. DOE acknowledges that this percentage may vary significantly between Grantees due to different geographical areas and depending upon the availability of other funding sources, resource availability, etc. Low percentages should include a statement of what other funding supports H&S costs, while larger percentages will require greater justification and relevant historical support.

15 percent is not a maximum limit on H&S expenditures. DOE will conduct a secondary level of review on H&S Plans with a Grantee request of more than 15 percent of Program Operations used for H&S purposes. DOE strongly encourages using the table below in developing justification for the requested H&S budget amount. In accordance with 10 CFR 440.18(d)(15), these funds are to be expended by the Program in direct weatherization activities, "of which is necessary before, or because of, installation of weatherization materials." This same section of the regulation excludes the H&S costs from the ACPU limitation if H&S costs are budgeted separately.

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DOE recommends reviewing recent budget requests and compare those to actual H&S 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 should correlate to the H&S budget amount listed in the Grantee's annual plan.

H&S expenditure limits and justification explaining the basis for setting the limits.

In PY2017, Kansas began using a new reporting management tool that is providing additional insight into the H&S expenditures on homes at the state level. In tracking additional H&S measures individually instead of in aggregate, the new system allows for a better perspective on how different funding sources supplement DOE's H&S budget. In recent years, Kansas has been fortunate to have other, non-federal, funding that has helped both to increase the H&S measures possible under the weatherization umbrella and also cover some H&S expenditures to keep DOE's portion low. However, the demand for those more flexible, non-federals has shifted from covering H&S expenses to being needed to help address major deferral issues, such as roof repairs. As such, DOE's share of H&S costs, as well as an overall increase in H&S costs, is increasing the need to budget a higher H&S budget.

The attached PDF shows the actual accrued H&S expenditures for recently weatherized homes. We anticipate that our H&S percentage will increase from 20% to 22% based on minor adjustments to the H&S policy below (such as covering sump pump pits) and in addition to rising material and labor costs that we've been experiencing this past year. This data should be a valid representation of anticipated H&S expenses and installation frequency for DOE PY22 and supports a H&S budget of 22%.

Utilizing the spreadsheet embedded below, provide a full list of H&S measures using historical data from your program, including average cost, and frequency rate. If installing more than a single instance of one measure in a unit (e.g. multiple CO alarms), Grantees may aggregate costs so that frequency does not exceed 100%, or enter a justification into the measure column, which explains why that measure has a frequency rate of over 100%. The spreadsheet will auto calculate your expected Total Average H&S Cost per Unit.

Instructions: Double-click icon directly below to open, view and edit Measure Matrix Spreadsheet. Complete the spreadsheet by entering the required information. To save, close the spreadsheet and it will save to this document.



Measure Matrix Final.xlsx

4.0 - INCIDENTAL REPAIR MEASURES

Any measures that could potentially be identified as H&S, but the Grantee chooses to instead identify and treat those measures as incidental repair measures (IRMs), must be implemented consistently throughout the Grantee's weatherization program. The measure must fit the regulatory definition of an IRM and be cost justified along with the associated energy conservation measure and/or package of measures. 10 CFR 440.3 defines Incidental Repairs as, "those repairs necessary for the effective performance or preservation of weatherization materials."

H&S measures identified and treated as IRMs within your Program.

Incidental repairs are those repairs necessary for the effective performance or preservation of weatherization materials and are not Health and Safety measures and accordingly would not be charged as such.

Minor wall or roof repairs to preserve installed insulation shall be deemed an IRM, and not H&S. Minor repairs are those that can be corrected following IRM rules when the cost is associated with the ECM.

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5.0 – OCCUPANT PRE-EXISTING OR POTENTIAL HEALTH CONDITIONS AND HAZARD IDENTIFICATION AND NOTIFICATION FORM(S)

Grantees must develop a written policy that includes, at a minimum, the following documentation relating to H&S Plan implementation and maintain signed copies in each client file. <u>Each notification must include</u> the occupant(s) (and landlord if applicable) name and address, be signed and dated by the occupant (and landlord if applicable) indicating that they understand and have been informed of their rights and options and signed by the Subgrantee personnel collecting the information.

Required topics are:

Occupant Pre-existing or Potential Health Condition Screening

- Provides documentation that allows occupant(s) to self-report known or suspected health concerns as part of initial application for weatherization, during the energy audit, or other part of the weatherization process as specified. Must minimally contain the following:
 - Any known risks associated with the measures and materials being installed
 - Subgrantee point of contact information for occupant(s)
 - Date of screening

Hazard Identification Notification

- Provides documentation that the occupant and landlord (if applicable), have been informed of any potential hazards identified during the energy audit or intake process. Must minimally contain the following:
 - Date(s) of the energy audit/assessment and when the occupant(s) (and landlord, if applicable) was informed of a potential H&S issue
 - A clear description of the problem, including any testing results
 - A statement indicating if, or when weatherization could continue

Radon Informed Consent Form

- Provides documentation that the occupant(s) (and landlord if applicable) have been informed of any potential hazards associated with radon in weatherized dwellings. The form must minimally contain the following:
 - An explanation on the potential small risk of increasing radon levels when building tightness is improved. This
 is based on the results of the <u>Buildings Assessment of Radon Reduction Interventions with Energy retrofits</u>
 <u>Expansion Study (The BEX Study)</u>
 - A list of precautionary measures WAP will install based on <u>EPA Healthy Indoor Environment Protocols.</u>
 - Some of the benefits of Weatherization including energy savings, energy cost savings, improved home comfort, and increased safety.

Procedure for soliciting occupants' health and safety concerns related to components of their homes

K-WAP staff and contractors will be required to take all reasonable precautions against performing work on homes that will subject workers or clients to health and safety risks.

Before work begins on the residence, the agency/contractor must take into consideration the health concerns of each occupant, the condition of the dwelling, and the possible effect of work to be performed on any particular health or medical condition of the occupants.

Subrecipients will provide a "Occupant Pre-Existing or Potential Health Conditions" form to the client which explains that some weatherization measures create dust, smells, or other conditions that may aggravate certain health conditions in some individuals. The client will then have the opportunity to self-identify any pre-existing or potential health concerns that may be aggravated by weatherization services.

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Agencies, and contractors, are to take into account the client's concerns to the extent feasible to minimize health risks, such as scheduling weatherization work when the at-risk occupants aren't present. It is the responsibility of the occupants to take the appropriate safety precautions to protect themselves and notify weatherization workers in advance of any health risks they may have. Clients will be provided a point of contact, in writing, so that the client can inform the subrecipient of any new or developing health conditions. Failure or the inability to take appropriate actions must result in deferral.

Procedure for determining whether occupants suffer from health conditions which may be negatively impacted by the act of			
weatherizing their dwelling			
See above.			
Procedure for addressing potential health concerns including pre-existing health conditions when they are identified			
See above			
Location where forms have been uploaded/submitted			
Separate attachment to SF424 ☑ Separate attachment to H&S Plan □			

6.0 - HEALTH AND SAFETY CATEGORIES

For each of the following H&S categories identified by DOE in the following tables, follow the directions below.

- Any section that is "Required" below must be explicitly detailed in the H&S Plan regardless of funding source used. If the Grantee checks the box for "Concurrence with DOE Guidance" the contents of the box may be left as it exists or reference the section/location within Grantee Policy and Procedure manual that contains language or insert Grantee specific language. If the "Alternative Guidance" box is checked, the Grantee must provide that alternative guidance in the box.
 - If a Grantee is proposing an alternative action/allowability for a "Required" item, the alternative requires comprehensive explanation of how it meets the intent of the DOE program notice.
 - If a "Required" item/category will not be addressed with any funding source and will always result in deferral, the H&S Plan must state that.
- Any section that is "Allowable" below must be detailed only if DOE WAP funds are used to implement the measures. If the Grantee uses DOE funds for any "Allowable" activities from the Table of Issues then they must be described here in detail, including defining "minor", "major", "limited", "case-by-case", and "at-risk" if the term is applied. If you only check the box "Allowed with Alternative Funds" then no additional information is required.
- Any section that is "Prohibited" below may not be addressed with DOE WAP H&S funds and does not need to be specifically addressed in the H&S Plan. The Grantee simply needs to check the "Concur with DOE guidance" box and indicate if the condition will result in deferral/referral.
- The Grantee H&S Plan may address additional H&S hazards specific to their program that are not included in the Table of Issues. If a Grantee chooses to include additional measures as DOE WAP funded H&S costs, the H&S Plan must include details pertaining to the measures allowed, testing required, and client education for these specific hazards.

• All required "Testing/Inspection" related items must be documented in the client file to verify completion and results.

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6.1 - Air-Conditioning, Heating Systems, and Combustion Appliances Required Actions Concur with DOE Guidance ☑ Alternative Guidance □ Results in Deferral/Referral □ DOE WAP H&S Funds ☑ Alternative Funds ☑

- Replace, repair, or install primary heating systems when existing primary heating systems are unsafe, inoperable, or nonexistent. No home may be left without a safe primary heating system after weatherization where climate conditions require heating (i.e., all climate zones except zone 1 as defined by ASHRAE). If unable to meet this requirement, deferral is required.
- No DOE-funded weatherization work is permitted if the completed dwelling unit will be heated with an unvented combustion space heater as the primary heat source. The primary heat source must be replaced with a vented unit prior to or by weatherization. The replacement unit must be sized to heat the entire dwelling unit.
- Unsafe secondary units, including space heaters, must be repaired, or removed and disposed of, or deferral is required. Secondary unvented space heaters are considered unsafe if they:
 - o are not listed and labeled as meeting ANSI Z21.11.2;
 - o have an input rating of more than 40,000 BTU/hour;
 - o are in a bedroom and have an input rating of more than 10,000 BTU/hour;
 - o are in a bathroom and have an input rating of more than 6,000 BTU/hour;
 - o are operating in an unsafe manner (e.g., high carbon monoxide (CO) readings, too close to combustible materials, lack sufficient combustion air volume);
 - o or are not permitted by the Authority Having Jurisdiction (AHJ).
- DOE WAP Grantees must comply with the Manufactured Home Construction and Safety Standards which mandates that:
 - All fuel-burning appliances in manufactured homes except: ranges, ovens, illuminating appliances, clothes
 dryers, solid fuel-burning fireplaces and solid fuel-burning stoves, must be installed to provide for the
 complete separation of the combustion system from the interior atmosphere of the manufactured home
 (i.e., to draw their combustion air from outside), and be vented to outside the dwelling.
 - All appliances installed by or left in place after weatherization in manufactured homes must meet these standards, including secondary heating sources. If an occupant will not allow the removal of an unsafe combustion appliance from the home, deferral is required.
 - Repair or replace combustion gas venting to ensure proper combustion gas venting to outside the dwelling for all combustion appliances, including but not limited to gas dryers and refrigerators, furnaces, vented space heaters, and water heaters.
- If weatherization installs an appliance that is vented into a masonry chimney, the chimney must be lined in compliance with the International Fuel Gas Code (IFGC) or local AHJ if more stringent.
- Install adequate combustion air for all combustion appliances left after weatherization.
- If permits are required for heating/cooling system work, they must be secured and are a program operation cost if the installation is an ECM or may be included in the H&S cost if installed as a H&S measure.
- If unsafe conditions relating to existing combustion appliances require remediation to safely perform weatherization and cannot be remedied by repair or tuning, replacement is an allowable H&S measure unless prevented by other guidance herein.
- Documentation justifying the replacement with a cost comparison between replacement and repair must be maintained in the client file.

Allowable Actions				
Allowed with DOE WAP H&S Funds ☑	Allowed with Alternative Funds ✓			

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- Unsafe primary units must be proposed for replacement in the energy audit to determine if the system can be replaced as an ECM prior to repair or H&S replacement. If the unit does not qualify as an ECM, the unit will be assessed for repair or H&S replacement. If the estimated cost of repairs exceeds 50% of the estimated replacement cost, the piece of equipment shall be replaced.
- Non-functioning primary heating systems will be inspected to the extent possible for H&S issues and possible repair items. Before any repair, non-functioning units will be proposed for replacement in the energy audit to determine if the system can be replaced as an ECM. The name plate efficiency rating shall be used in the audit tool. This logic potentially allows an inefficient, albeit inoperable, unit to be replaced as an EMC before any repair costs are incurred. If the unit does not qualify as an ECM, the unit will be assessed for repair or H&S replacement. If the estimated cost of repairs exceeds 50% of the estimated replacement cost, the piece of equipment shall be replaced.
- Homes without any heating systems will be reviewed on a case by case basis by contacting KHRC before weatherization services begin. KHRC will require the review of pre-inspection and energy audit documents to evaluate if case by case H&S measures are appropriate and allowable for program expenditures.
- Electric space heaters are not considered unvented heaters nor are they considered unsafe heating sources for H&S weatherization purposes. No weatherization funds shall be used for the repair or replacement of electric resistance heaters. Electric resistance heating sources, both forced air and space heaters, should be proposed for ECM replacement with electric heat pumps.

 Repair or removal of unsafe primary and secondary solid fuel heating appliances. 		
Prohibited Actions		
Concur with DOE Guidance		
Using DOE WAP H&S funds for replacement or installation of secondary heat sources.		
 Cooling system shall only be replaced as an ECM or as allowed by LIEAP funding. No H&S cooling systems are permitted with DOE funds. 		
Required Testing/Inspection		
Concur with DOE Guidance □ Alternative Guidance ☑		

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- All combustion space and water heating appliances will be assessed at both the initial audit and at the post inspection. The most recently approved mechanical inspection forms available will be utilized to record and document the results. Forms will clearly identify the individual conducting the inspection and the date it was performed.
- Mechanical equipment forms will collect brand, model, and serial number of equipment. Equipment shall be modeled to
 reflect published efficiency usage as identified by the model number when available. When published data is unavailable
 the estimates and assumptions in the Subrecipient Procedures Manual must be used.
- Separate mechanical inspections forms will be used for pre- and post-inspections. Separate mechanical forms will be used for each mechanical system.
- Proper venting to the outside for combustion appliances, including gas dryers and refrigerators, furnaces, vented space heaters, and water heaters is required. Also see Gas Ovens, Stovetops, Ranges.
- When testing indicates a performance problem, venting corrections will be made. Prescriptive correction of preexisting
 venting code compliance issues, or combustion air calculations, are not eligible H&S measures unless triggered by code
 compliance requirements. When correction of preexisting code compliance issues is triggered and paid for with WAP
 funds, cite the specific code requirements with reference to the weatherization measure(s) that triggered the code
 compliance issue in the client file.
- Follow the Kansas SWS Field Guide for testing procedures and action levels.
- Follow the Subrecipient Procedures Manual, section Mechanical Systems, to assess combustion equipment and determine repair or replacement procedures.
- Combustion appliances must be deemed safe before weatherization measures are installed and must be documented as safe at the completion of the weatherization work. This requirement applies year-round regardless of whether the equipment is in use.
- All naturally drafting combustion equipment within the home's pressure boundary will be tested with the Combustion Appliance Zone (CAZ) in the worst-case depressurization state. This is required at the initial audit and final inspection.
- Primary solid fuel-fired heating sources will be inspected using the appropriate mechanical inspection form. Visually inspect the entirety of solid fuel- fired appliance installations including the venting system to ensure it adheres to the applicable code or local authority having jurisdiction. Safety inspection should include, but are not limited to, verification of adequate floor protection, code-compliant clearances to walls and other combustible materials, and looking for visual evidence of soot on the walls, mantel or ceiling, or creosote staining near the flue pipe.
- Fireplaces can present special hazards that may be affected by weatherization. Fireplaces, as well as all solid fuel appliances, should be inspected for visual evidence of soot on the walls, mantel, or ceiling, or creosote staining near the chimney/flue pipe. These can indicate combustion/drafting issues. Assess whether the fireplace is a primary heating source, a backup heating source, or merely decorative in nature. Operational fireplaces used for primary heating should have the CAZ zone tested under worst case conditions. CAZ depressurization exceeding 5 pascals in the space having the fireplace should have pressure imbalances corrected, additional combustion air added, or the fireplace disabled.
- When a fireplace is used for primary heating, other combustion appliances, such as gas water heaters, should be tested under simulated worst-case conditions. A blower door can be set to run at 300 CFM (depressurization) to mimic the airflow dynamics likely when the fireplace is in use.

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• Daily Test Out Procedures for Crew Based Weatherization:

- Any time the air seal/insulation crew performs work on a home, the crew will utilize a smoke pencil or mirror to conduct testing for spillage of any atmospheric draft appliance and measure ambient CO level present in the home prior to leaving the home. This testing will be conducted with all exhaust appliances running. In the event an appliance spills for more than 2 minutes, the appliance will be turned off, allowed to cool, and re-tested under natural conditions. If the appliance fails spillage under natural conditions, or if at any time the ambient CO level in the home exceeds 35 ppm during testing, the appliance will be turned off and the client will be instructed not to operate the appliance until it has been serviced and re-tested by HVAC or authorized personnel and found to be operating safely. Crews will notify HVAC or other authorized personnel that the home needs immediate attention.
- Appliances that fail under CAZ worst-case depressurization but pass at natural are not necessarily immediate hazards but will be addressed before the final inspection. HVAC or other authorized personnel will be notified to schedule servicing. Residents will be instructed to avoid the conditions causing CAZ depressurization until repairs are completed.
- Crew HVAC personnel will test any equipment they service or install. They will also conduct spillage, draft, flue CO, and ambient CO testing on any atmospheric drafting appliances during CAZ worst-case depressurization prior to leaving the home. Testing will follow the same procedures as auditors and inspectors. Hazards that require an immediate response will be addressed during the visit. If unable to correct the issue prior to leaving, the client will be instructed not to operate the appliance until it has been serviced and re-tested by HVAC personnel and found to be operating safely.

Grantee Combustion Testing Action Levels

Worst case depressurization and spillage testing is required for all atmospherically drafting appliances pre and post weatherization using the appropriate and required Kansas mechanical inspection form. Draft testing is also part of our procedures and is compared to minimum draft required (Temp/40)-2.75. Both warm and cold vented appliances must stop spillage within 2 minutes, meet or exceed the minimum draft requirements, and have passing CO measurements (200 PPM AF for water heaters, 400 PPM AF for furnaces, 450 for ovens).

water heaters, 400 PPM AF for furnaces, 450 for ovens).				
Grantee Woodstove & Fireplace inspection/testing policy including actions/limits				
Concur with DOE Guidance □ Alternative Guidance ☑				
Venting on fireplaces or woodstoves used as primary heating sources that are left operational after weatherization must meet				
current local or national standards or the home must be deferred.				
Required Occupant Education				

• Appropriate use and maintenance of units.

Concur with DOE Guidance

✓

- Provide all paperwork and manuals for any equipment installed by weatherization.
- 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 combustion safety and hazards information including how to recognize depressurization, dangers of CO poisoning, and fire risks associated with combustion appliance use.

Alternative Guidance

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6.2 – Asbestos (Confirmed and/or Presumed Asbestos Containing Material) Required Actions Concur with DOE Guidance ☑ Alternative Guidance □ Results in Deferral/Referral □ DOE WAP H&S Funds ☑ Alternative Funds ☑ Alternative Funds ☑

- When suspected friable Asbestos Containing Materials (ACM) are present, including vermiculite, assume they contain asbestos and take precautionary measures to prevent disturbing it during the audit and work unless testing determines otherwise.
- Grantees must have written policy included in their H&S plan for:
 - o Identifying and managing suspected ACM that provides for reasonable and necessary precautions to prevent asbestos contamination in the home.
 - Addressing blower door testing where suspected friable ACM is present (as defined by EPA), including vermiculite.

Grantee ACM policy

Where suspected Asbestos Containing Material (ACM) is identified precautions must be taken not to disturb the material. The suspected ACM's overall condition and potential for disturbing the material will be evaluated.

In siding, walls, ceiling, etc: Where suspected ACM's will be disturbed, the home will be deferred until the suspected material is deemed non-asbestos containing, removed, or encapsulated by a certified asbestos professional. The exception is slate type siding. Slate type sliding may be removed and reinstalled in order to install sidewall insulation and where the associated costs are charged as part of the ECM. All precautions must be taken not to damage the siding. Slate type siding should not be cut or drilled. Where possible, insulate through home interior.

On pipes, furnaces, other small covered surfaces: Suspected asbestos containing material present on pipes, furnaces, or other small covered surfaces, shall be assumed to contain asbestos, unless testing determines otherwise. The material's overall condition and the potential for disturbing the material will be evaluated. Where the material condition is good and intact at time of inspection and there is no risk of disturbing the material, weatherization work should proceed. Clients and workers will be instructed not to disturb the material. Where the material is in less than good condition, the material is non-intact, or the material may be disturbed, the home will be deferred until the material is deemed non-asbestos containing, removed, or encapsulated by a certified asbestos professional. DOE funds may be used for limited (<\$1000) testing, encapsulation, or removal of suspected ACM on small surfaces (pipes, ductwork, furnaces, other small covered surfaces, etc) by an appropriately licensed asbestos control professional if necessary to safely weatherize the dwelling. Testing is not required, and encapsulation and removal may occur of suspected ACMs.

In vermiculite: When vermiculite is present, the home will be deferred until the removal of vermiculite by a certified asbestos professional is completed. DOE funds cannot be used for removal. Clients will be instructed to not disturb the vermiculite and asbestos safety information will be provided. The deferral language will provide information in writing describing that in order for weatherization to proceed there must be documentation that a licensed professional removed the vermiculite.

Grantee Blower Door Testing Policy When Suspected ACM Exists

Where the material condition is good and intact at time of inspection and there is no risk of disturbing the material, a blower test can be conducted. Where the material is in less than good condition, the material is non-intact, or the material may be disturbed, the home will be deferred until the material is deemed non-asbestos containing, removed, or encapsulated by a certified asbestos professional.

The exception to the above approach is vermiculite. No blower door test will occur, and the home will be deferred until the removal of vermiculite by a certified asbestos professional is completed.

General blower door testing is allowed with slate siding.

Allowable Actions

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Allowed with DOE WAP H&S Funds ☑	Allowed with Alternative Funds ☑			
Temporary removal and reinstallation of ACM siding to perform an ECM (e.g., wall insulation).				
• Limited (<\$1000) testing, encapsulation, or removal of suspected ACM on small surfaces (pipes, ductwork, furnaces, other				
small covered surfaces, etc) by an appropriately licens	ed asbestos control professional if necessary to safely weatherize			
the dwelling. Testing is not required, and encapsulation				
	ited Actions			
	DOE Guidance ☑			
	r replacement of asbestos siding, thermal system insulation (TSI) or			
·	miculite is prohibited.			
· · · · · · · · · · · · · · · · · · ·	esting/Inspection			
	re Guidance Results in Deferral/Referral			
DOE WAP H&S Funds ☑	Alternative Funds ☑			
 Visually inspect all surfaces (i.e., walls, floors, ceilings, roofs) for suspected ACM prior to drilling or cutting. 				
Assume asbestos is present in suspect materials unless				
	esting/Inspection			
Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds ☑				
Limited (<\$1000) testing, encapsulation, or removal of suspected ACM on small surfaces (pipes, ductwork, furnaces, other				
small covered surfaces, etc) by an appropriately licensed asbestos control professional if necessary to safely weatherize				
the dwelling. Testing is not required, and encapsulation and removal may occur of suspected ACMs.				
Required Occupant Education				
Concur with DOE Guidance ✓	Alternative Guidance			
• Formally notify the occupant, and landlord if applicable, in writing:				
o of suspected ACMs that are present and what precautions will be taken to ensure the occupants' and workers' safety				
during weatherization;				
o of results if testing was performed;				
 not to disturb suspected ACM; When deferral is necessary due to asbestos, occupant, or landlord if applicable, must provide documentation that a 				
 When deferral is necessary due to asbestos, occupant, or landlord if applicable, must provide documentation that a certified professional performed the remediation before work continues. 				
certified professional performed the remediation	refore work continues.			

6.3 – Biologicals and Unsanitary Conditions				
Required Actions				
Concur with DOE Guidance ☑	Alternative Guidance ✓		Results in Deferral/Referral □	
DOE WAP H&S Funds	; 		Alternative Funds □	
Deferral where conditions (odors, b	acteria, raw sewage	, rotting wood, etc.) in the home pose a health risk to occupants	
and/or weatherization workers or m	ay be worsened by v	veatherization activ	vities (e.g., air sealing) and will not be resolved	
	by we	eatherization.		
Allowed Actions				
Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds ☑		owed with Alternative Funds ☑		
DOE funds may be used for limited (<\$1,000) remediation of conditions that may lead to or promote biological concerns				
and unsanitary conditions (e.g., repairing leaking sewage pipe).				
Required Testing/Inspection				
Concur with DOE Guidance ✓	Alternative (Guidance □	Results in Deferral/Referral □	
DOE WAP H&S Funds ☑	☐ Alternative Funds ☑		Alternative Funds ☑	
Sensory inspection of interior, exterior, attics, and subspaces of the dwelling.				
Prohibited Testing/Inspection				
	Concur with DOE Guidance ✓			

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DOE WAP H&S funds may not be used for testing of materials for biological contaminants.		
Required Occupant Education		
Concur with DOE Guidance ☑ Alternative Guidance □		
Inform occupant in writing of observed biological and unsanitary conditions.		

6.4 – Building Structure and Roofing (e.g., roofing, wall, foundation)				
Allowable Actions				
Allowed with DOE WAP H&S Funds □	Allowed with Alternative Funds ☑			
Building rehabilitation is beyond the scope of the W	eatherization Assistance Program; however, program workers			
frequently encounter homes in poor structural cond	ition. Dwellings whose structural integrity is in question should			
be referred to housing rehabilitation programs when	re appropriate. Weatherization services may need to be delayed			
until the dwelling can be made safe for crews and or	ccupants. Incidental repairs necessary for the effective			
performance or preservation of weatherization mate	erials are allowed. Examples of these limited repairs include			
sealing minor roof leaks to preserve new attic insula	tion and repairing water-damaged flooring as part of replacing a			
water heater. All minor repairs must meet and follow	the definition and requirement of incidental repairs.			
Prohib	ited Actions			
Concur with DOE Guidance 🗹				
Using DOE WAP H&S funds for building rehabilitation.				
Define "l	major" repairs			
	not allowed for major repairs.			
· · · · · · · · · · · · · · · · · · ·	esting/Inspection			
Concur with DOE Guidance ☑ Alternation	ve Guidance □ Results in Deferral/Referral □			
DOE WAP H&S Funds ☑ Alternative Funds ☑				
Visual inspection of building structure and roofing for damages that compromise building durability and to verify that portions of				
the home where weatherization will occur are safe for entry and performance of assessments, work, and inspections.				
Allowable Testing/Inspection				
Allowed with DOE WAP H&S Funds □	Allowed with Alternative Funds ✓			
If DOE WAP H&S Funds are used for any "allowable" testing, detail them here.				
Prohibited Testing/Inspection				
Concur with DOE Guidance 🗹				
Using DOE WAP H&S funds for any testing/evaluation of structural materials by a third-party is prohibited.				
Required Occupant Education				
Concur with DOE Guidance 🗹 Alternative Guidance 🗆				
Notify occupant in writing of structurally compromised areas.				

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6.5 – Code Compliance Allowable Actions Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds ☑ • The correction of preexisting code compliance issues is not an allowable cost unless triggered by

• The correction of preexisting code compliance issues is not an allowable cost unless triggered by weatherization measures being installed in a specific room or area of the home. When correction of preexisting code compliance issues is triggered and paid for with WAP funds, cite specific code requirements with reference to the weatherization measure(s) that triggered the code compliance issue in the client file. State and local (or jurisdiction having authority) codes must be followed while installing weatherization measures. Condemned properties and properties where "red tagged" or health and safety conditions exist that cannot be corrected under this guidance must be deferred.

Common allowable code compliance situations:

- Flue liners or resizing of water heater flues when a weatherization installed furnace orphans the water heater. Flue liners and flue corrections are allowable H&S items.
- Federal Pacific breaker boxes are present in Kansas homes and where mechanical equipment replacements are required, this unsafe breaker box must be replaced. This is an allowable H&S expense, but typically will require additional non-federal funding.
- The correction of all mechanical code violations may be required when pulling a mechanical permit for the installation of new mechanical equipment. This may include installing a gas line drip leg on water heaters when installing in a new furnace. The correction of code issues when required, is an allowable H&S expense.
- Electrical code compliance work is allowed when required when installing new ventilation equipment.

Prohibited Actions
Concur with DOE Guidance ✓

- Using DOE WAP H&S funds for correction of preexisting code compliance issues not directly related to the installation of specific weatherization measures in the home is prohibited.
- Using DOE WAP funds for work on condemned properties and properties where H&S conditions exist that cannot be corrected under this guidance is prohibited

corrected under this guidance is prohibited				
Required Testing/Inspection				
Concur with DOE Guidance ✓	Alternative Guidance Results in Deferral/Referral		Results in Deferral/Referral □	
DOE WAP H&S Funds ☑ Alternative Funds ☑			Alternative Funds ☑	
Visual inspection.				
Allowable Testing/Inspection				
Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds ☑				
If DOE WAP H&S Funds are used for any "allowable" testing, detail them here.				
Required Occupant Education				
Concur with DOE Guidance ☑ Alternative Guidance □				
Inform occupant in writing of observed code compliance issues when it results in a deferral.				

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6.6 – Electrical			
Required Actions			
Concur with DOE Guidance	Alternative Guidance ☑		Results in Deferral/Referral
DOE WAP H&S Funds ☑ Alternative Funds ☑			
The two primary energy-related health and safety electrical concerns are insulating homes that contain knob-and-tube wiring and			
identifying overloaded electrical circuits. Knob-and-tube wiring located in a wall cavity or exposed on an attic floor was intended			

The two primary energy-related health and safety electrical concerns are insulating homes that contain knob-and-tube wiring and identifying overloaded electrical circuits. Knob-and-tube wiring located in a wall cavity or exposed on an attic floor was intended by code to have free air movement to cool the wire when it is carrying an electric current. Laboratory tests have shown that retrofitting thermal insulation around electric wiring can cause it to overheat, resulting in a fire hazard. For this reason, the installation of insulation around live knob and tube wiring should not be performed. Sidewalls that contain live knob and tube wiring are not to be blown with insulation. In attics, a reasonable cost of rewiring live knob and tube should be included in the cost of the attic insulation for audit approval. The cost of rewiring will be charged with the cost of the energy conversation measure of attic insulation if audit approved. If the cost of rewiring is prohibitive, the cost of attic insulation shall be run independently and should be valleyed or dammed to prevent covering live knob and tube. Subrecipients are to abide by more stringent applicable codes in jurisdictions where the work is being performed.

Voltage detection testing is required on knob and tube wiring.

Serious electrical hazards exist when gross overloads are present. Should auditors and crews find such existing problems, they should notify the owner. Weatherization measures that involve the installation of new equipment such as air conditioners, heat pumps, ventilation systems, or electric water heaters can exacerbate previously marginal overload problems to hazardous levels. The problem should also be noted in the client file. To the extent that these problems prevent adequate weatherization, the agency should consider repairing them.

Allowable Actions				
Allowed with DOE WAP H&S Funds ☑	Allowed with DOE WAP H&S Funds ☑		ed with Alternative Funds ☑	
Minor electrical repairs (e.g., junction box	covers imprope	er splices) to protect th	ne occupant or workers from electrical	
hazards within the living area or in the imn	nediate area w	here weatherization ac	ctivities will occur.	
	Prohibite	d Actions		
	Concur with DC	E Guidance 🗹		
Using DOE WAP H&S funds for <i>major</i> electrical repairs as defined by the Grantee's H&S plan is prohibited				
	Define "ma	jor" repairs		
Majo	or electrical rep	pairs are those over \$1	,000.	
	Required Testi	ing/Inspection		
Concur with DOE Guidance ✓	Alternative Guidance Results in Deferral/Referral			
DOE WAP H&S Funds ☑ Alternative Funds ☑		Alternative Funds ☑		
Visual inspection for presence and condition of knob-and-tube wiring.				
Evaluate knob-and-tube wiring for safety prior to work.				
Check for alterations that may create an electrical hazard.				
Allowable Testing/Inspection				
Allowed with DOE WAP H&S Funds □ Allowed with Alternative Funds ☑				
Not applicable with DOE H&S funds				
Required Occupant Education				
Concur with DOE Guidance ☑		Alternative Guidance □		

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- Provide occupant with written documentation of any electrical hazards identified that will not be addressed by weatherization
- Provide information to occupant on over-current protection, overloading circuits, and basic electrical safety/risks if conditions warrant.

6.7 – Fuel Leaks				
Required Actions				
Concur with DOE Guidance ☑	Alternative	Guidance 🛮	Results in Deferral/Referral	
DOE WAP H&S Funds 🛭	DOE WAP H&S Funds ☑ Alternative Funds ☑			
_		-	e contacted, work must be temporarily	
halted, and the leak must be repaire				
	y of the occupant (vs.	the utility) must be re	paired before installing weatherization	
measures in the home.				
		e Actions		
Allowed with DOE WAP H&S F			ved with Alternative Funds ☑	
	. •	•	detector from the utility coupling into and	
		-	on and marked for repair. When a gas leak	
		-	service before work may proceed. Fixing	
	·	•	igned as a responsibility of the client.	
· · · · · · · · · · · · · · · · · · ·	aking bulk fuel tanks a	and /or lines if connec	ted systems will remain after	
weatherization.	ı.			
	oliance gas connectors	s that are not complia	nt with current fuel gas codes. Allowable	
but not required.	Duahihita	ed Actions		
Concur with DOE Guidance Licing DOE WAR HIS Strands to repair locks that are the responsibility of the utility to correct is prohibited.				
 Using DOE WAP H&S funds to repair leaks that are the responsibility of the utility to correct is prohibited. Using DOE WAP H&S funds for environmental cleanup resulting from bulk fuel leaks is prohibited 				
Using DOL WAI TIQS fullus for envir		ing/Inspection	leaks is prombited	
Concur with DOE Guidance ☑	•	Guidance	Results in Deferral/Referral	
DOE WAP H&S Funds ©			Alternative Funds ☑	
Test all exposed gas lines, fittings, valves, and connections for fuel leaks from utility connection to the appliance				
throughout the home.				
 Test all gas appliances for fuel leaks at all connections, valves, fittings, and burners. 				
 Conduct sensory inspection of all bulk fuels lines and storage tanks to determine if leaks exist. 				
Allowable Testing/Inspection				
Allowed with DOE WAP H&S Funds □ Allowed with Alternative Funds ☑				
No additional allowable activities.				
Prohibited Testing/Inspection				
Concur with DOE Guidance 🗹				
Using DOE WAP H&S funds for environmental testing of soil or water is prohibited.				
Required Occupant Education				
Concur with DOE Guidance ☑ Alternative Guidance □				

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Inform occupants in writing of fuel leak testing results, including specific location if fuel leaks are detected.

6.8 – Gas Ovens/Stovetops/Ranges			
Allowable Actions			
Allowed with DOE WAP H&S Fu	nds ☑	Allo	wed with Alternative Funds 🛘
Replacement of gas ovens, stovetops, and ra	inges is not allowed.		
Gas ovens will be tested for CO following BP	•	• •	•
will be conducted. Clients will be notified if client will be informed of the importance of		-	_
broilers clean to limit the production of CO.	using exhaust ventila	tion when cooking a	nd the importance of keeping burners and
broners clean to limit the production of Co.			
Gas ranges will be visually inspected for ope recommended if the flame has any discolora corroded, or bent.			
	Prohibite	d Actions	
	Concur with DO	DE Guidance ☑	
Using DOE WAP H&S fu	nds for replacement	of gas ovens/ranges,	stovetops is prohibited.
	Required Test	ing/Inspection	
Concur with DOE Guidance 🗹	Alternative (Guidance □	Results in Deferral/Referral
DOE WAP H&S Funds ☑			Alternative Funds ☑
See above			
	tion levels for oven C	O testing and result	ing actions
See above			
	Allowable Test	ing/Inspection	
Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds ☑			
See above			
	•	pant Education	
Concur with DOE Guidance			Alternative Guidance
Inform occupants of the importance of using exhaust ventilation when cooking and the importance of keeping burners and			
broilers clean to limit the production of CO.			
6.9 – Hazardous Materials			
	•	d Actions	
Concur with DOE Guidance	Alternative (Guidance 📙	Results in Deferral/Referral
DOE WAP H&S Funds ☑			Alternative Funds ☑
Hazardous Waste Materials generated by weatherization work (e.g., refrigerant, asbestos, lead, mercury, CFL lighting			
bulb/ballasts, etc.) must be disposed of according to all local and federal laws, regulations, and guidelines, as applicable.			
Costs specifically related to disposal may be charged as a H&S expense.			
Subgrantees must document disposal requirements in contract language with the responsible party.			
• Limited removal of pollutants that pose a risk to workers is required (e.g., flammable liquids, hazardous chemicals, and			
other air pollutants) as defined the Grantee's H&S Plan.			
If removal cannot be performed or is not allowed by the occupant, the unit must be deferred.			
Define "limited" removal of pollutants			
Limited removal is limited to \$1,000			

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Allowable Actions			
Allowed with DOE WAP H&S Funds ☐ Allowed with Alternative Funds ☑			ed with Alternative Funds ☑
No additional allowable actions			
	Prohibite	d Actions	
	Concur with DC	E Guidance ☑	
Using DOE WAP H&S	funds for Lead, Asbe	stos, and Radon abate	ment is prohibited.
	Required Testi	ng/Inspection	
Concur with DOE Guidance ☑	Alternative 0	Guidance 🗆	Results in Deferral/Referral □
DOE WAP H&S Funds			Alternative Funds ☑
	Sensory in	spection.	
	Allowable Test	ing/Inspection	
Allowed with DOE WAP H&S Fu		•	ed with Alternative Funds ☑
	No addition	al allowable testing	
	Prohibited Test		
	Concur with DC		
Using DOE WAP H&S funds for any testing fo	r hazardous material	s other than that speci	fically permitted in the asbestos, lead, and
		ocument is prohibited	
	Required Occup	· ·	
Concur with DOE Guidance	· ·		Iternative Guidance
			s being generated/handled in the home.
Inform occupant in writing of observ			
 Provide occupant written materials of 			
- Trovide occupant written materials c	in surcey issues and p	Toper disposar of flous	enota ponataries.
6.1	.0 - Injury Prever	ntion of Occupant	ts
	Allowable		
Allowed with DOE WAP H&S Fu			ed with Alternative Funds ☑
Minor repairs to stairs, steps, railings, etc., are allowed incidental repairs under the program if necessary to complete the			
weatherization work. For example, broken s			
order to complete furnace work. Items not	-		
repairs made to remedy the issues must mee	•		
than H&S.	it the definition of me	dental repairs and wi	in be charged as incluental repairs rather
tidii nas.			
Necessary repairs beyond the scope of the program will result in a deferral. When deferral is necessary, the client will be			
informed in writing of the observed conditio	-		·
commence.	in triggering the deter	rai ana tric actions net	cessary in order for weatherization to
commence.			
Prohibited Actions			
Concur with DOE Guidance ☑			
Using DOE WAP H&S funds for <i>major</i> repairs, as defined by the Grantee's H&S Plan is prohibited			
Define "major" repairs			
No H&S repairs allowed.			
ino rias repairs allowed.			
Required Testing/Inspection			
Concur with DOE Guidance 🗹	Alternative 0		Results in Deferral/Referral
DOE WAP H&S Funds ☑	, accinative c		Alternative Funds 🗹
Visually inspect for dangers that would prevent weatherization			

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Allowable Testing/Inspection			
Allowed with DOE WAP H&S Funds □	Allowed with Alternative Funds ☑		
	wable inspection allowed		
Required Occup			
Concur with DOE Guidance ☑	Alternative Guidance □		
If identified hazardous conditions will not be corrected during wea			
associated risks utilizing the "Hazard Identificat	ion Notification Form required by WPN 22-7.		
6.11 – Lead-Based Surface Covering	gs (Paint, Varnishes, Roofing, etc.)		
Required			
Concur with DOE Guidance Alternative G	Guidance ☑ Results in Deferral/Referral □		
DOE WAP H&S Funds 🗹	Alternative Funds ☑		
Weatherization work must follow KDHE's Renovation, Repair, and	Painting Program (RRP) when working in pre-1978 housing unless		
KHDE approved testing confirms the work area to be lead free.			
All weatherization auditors, inspectors, field monitors, and agency	·		
Department of Health and Environment (KDHE) approved Lead Safety	re Work Practice Training course and fulfill KDHE requirements to		
become Certified Renovators.			
All general weatherization contractors and agency grows will be r	espansible for complying with the Load Pased Daint Renovation		
All general weatherization contractors and agency crews will be r Repair, and Painting Rule (RRP) as enforced by KDHE in Kansas. W			
Licensed Renovation Firms.	eatherization contractors and agencies with crews must be KDHL		
Electised Netiovation Firms.			
RRP and Kansas weatherization requires all licensed firms to en	mploy a Certified Renovator who is registered with the KDHE.		
Weatherization jobs will have a designated Certified Renovator o			
Certified Renovator will document that RRP requirements were fol	·		
file. Contractors are responsible to KDHE for completing and retai	- .		
provide a signed Lead Safe Work Practices Declaration form wi			
weatherization jobs. A copy of this documentation is required in t	he client file.		
Only those costs directly associated with the lead safe practices for surfaces directly disturbed during weatherization activities are			
allowable H&S expenditures.			
Allowable Actions			
Allowed with DOE WAP H&S Funds 🗹 Allowed with Alternative Funds 🗹			
See above Prohibited Actions			
Concur with DOE Guidance ☑			
Using DOE WAP H&S funds for lead abatement is prohibited.			
 Using DOE WAP H&S funds for lead abatement is profibited. Using DOE WAP H&S funds for purchase, resourcing, or maintenance of X-ray Fluorescence (XRF) devices is prohibited. 			
Allowable Testing/Inspection			
Allowed with DOE WAP H&S Funds □ Allowed with Alternative Funds ☑			
See above.			
Required Occup			
Concur with DOE Guidance	Alternative Guidance ☑		

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Follow pre-renovation education requirements per KDHE RRP rules.

6.12 – Mold and Moisture			
	Allowabl	e Actions	
Allowed with DOE WAP H&S Fur	nds 🗆	Allo	wed with Alternative Funds ☑
Limited water damage repairs that can be addressed by weatherization workers are allowed when necessary in order to weatherize the home and to ensure the long-term stability and durability of the measure. Repairs not directly necessary for the installation of an ECM or H&S item are not allowed. Repair costs must be included with the associated weatherization measure.			
Source control (i.e. correction of moisture and mold creating conditions) is allowed when necessary in order to weatherization the home and to ensure the long-term stability and durability of the measure. Source control is independent of latent damage and related repairs. Source control includes but is not limited to: gutters, down spouts, extensions, flashing, sump pumps, minor dirt work for drainage, and landscaping. The installation of dehumidifiers is typically beyond the scope of weatherization and requires a field waiver from the grantee. Major drainage issues are beyond the scope of the program. Source control is allowable only as they relate to mold and moisture creating conditions.			
Ground moisture barriers will be installed in accordance with the approved Kansas SWS Field Guide. Ground moisture barriers will be installed over exposed soil in crawl spaces and basement where 2/3 or more of the area is accessible AND the installed portion can be adequately sealed to the adjacent foundation walls. Accessibility is to be determined by the initial auditor. Ground moisture barriers will not be installed where bulk water intrusion/standing water is a concern.			
Mold cleanup or testing is not an allowable Hinstalled (e.g., cleaning mold off window trim to the H&S budget category.			
Where severe mold and moisture issues cann	not be addressed, de	ferral is required.	
	Prohibite	ed Actions	
	Concur with Do	DE Guidance 🗹	
 Using DOE WAP H&S funds for mold cleanup is prohibited. 			
 Using DOE WAP H&S funds for window and door replacements is prohibited 			
Required Testing/Inspection			
Concur with DOE Guidance ☑	Alternative	Guidance 🗆	Results in Deferral/Referral □
DOE WAP H&S Funds ☑			Alternative Funds ☑
Visual assessment for moisture or mold damage including exterior drainage.			
	Allowable Tes	ting/Inspection	
Allowed with DOE WAP H&S Fur	nds 🗹	Allo	wed with Alternative Funds ☑
Allowable, but not required activities include diagnostics such as material moisture content, ore relative humidity measurements at the audit and/or final inspection.			
Prohibited Testing/Inspection			
Concur with DOE Guidance			

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Using DOE WAP H&S funds for mold testing of any type is prohibited.

Required Occupant Education

Provide occupant written notification of identified mold/moisture hazards and information regarding the associated hazard.

Alternative Guidance □

Concur with DOE Guidance ☑

6.13 - Occupant Pre-existing or Potential Health Conditions			
Required Actions			
Concur with DOE Guidance ☑	Alternative	Guidance 🗆	Results in Deferral/Referral □
DOE WAP H&S Funds			Alternative Funds
 When a person's health may be at 	risk and/or WAP work	activities could co	nstitute an H&S hazard, the occupant is
required to take appropriate actio	n based on severity of	risk.	
 Deferral, if occupant risk cannot b 	e mitigated.		
		e Actions	
Allowed with DOE WAP H&S			llowed with Alternative Funds ☑
	No additional allowab		H&S funds.
	-	ing/Inspection	
Concur with DOE Guidance 🗹		Guidance 🗆	Results in Deferral/Referral
DOE WAP H&S Funds			Alternative Funds ☑
•	spected health concerr	is either as part of	initial application for weatherization, during
the audit, or both.			
 This is done utilizing the "Occupar 			on Screening Form" required by WPN 22-7.
		ting/Inspection	
Allowed with DOE WAP H&S			llowed with Alternative Funds ☑
	No additional allowab		: H&S funds.
Control 11 DOE C. 11		pant Education	Albertail a Calderia II
Concur with DOE Guidance Alternative Guidance			
Inform occupant in writing of any	·	•	on screening form.
 Provide occupant with Subgrantee 	e point of contact infori	mation in writing.	
	6.14 -	- Pests	
		d Actions	
Concur with DOE Guidance 🗹		Guidance 🗆	Results in Deferral/Referral
DOE WAP H&S Funds			Alternative Funds ☑
Deferral of homes where infestation of pests cannot be reasonably removed or poses H&S concern for workers.			
Allowable Actions			
Allowed with DOE WAP H&S	Funds 🗹	Al	llowed with Alternative Funds □
Limited pest removal is allowed only where infestation would prevent weatherization. Limited is defined as one or two			
treatments and recurring treatment plans are not allowed. Infestation of pests may be cause for deferral where it cannot			
be reasonably removed or poses health and safety concern for workers. Discretion to defer homes based on pests is left			
up to the individual auditor and work crews. Unsafe or unsanitary conditions are allowable deferral conditions.			
Screening of windows and points of access is allowed to prevent intrusion. Incorporating pest exclusion into air sealing			
practices to prevent intrusion is allowed as part of the air sealing ECM.			
Allowable Testing/Inspection			
Allowed with DOE WAP H&S			llowed with Alternative Funds □
Visual asse	·		tion and risk to workers.
Required Occupant Education			
Concur with DOE Guidance Alternative Guidance			
Inform occupant in writing of observed conditions and associated risks.			

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6.15 – Radon			
Requ	ired Actions		
Concur with DOE Guidance ☑ Alternati	ve Guidance 🛚	Results in Deferral/Referral	
DOE WAP H&S Funds ☑		Alternative Funds ☑	
Cover exposed dirt floors within the pressure/thermal	boundary with a sealed	l soil gas retarder	
 Cover sump well/pits with airtight covers 			
 Implement ventilation as required by ASHRAE 62.2-20 	16		
Allow	able Actions		
Allowed with DOE WAP H&S Funds ☑	Allo	wed with Alternative Funds 🏻	
Radon testing and mitigation is not an allowable activi	ty under the weatheriza	ation program. However, since radon may	
be present in all Kansas homes, precautionary measur	es to reduce the possib	ility of making radon issues worse are	
allowable H&S expenditures. Whenever site condition	ns permit (e.g., no flood	ing), exposed dirt floors within the	
pressure/thermal boundary must be covered with an	appropriately installed a	and sealed soil gas/vapor retarder (aka	
ground moisture barrier). Sump pump wells/pits mus	t also be covered with a	irtight covers if within the pressure/thermal	
boundary. ASHRAE 62.2-2016 will also be applied, as	required. Other precau	tions may include, but are not limited to,	
sealing any observed floor and/or foundation penetra	tions, isolating the base	ment from the conditioned space, or air	
sealing unconditioned cellars or crude basements to n	ninimize connection wit	h the living space.	
Prohit	oited Actions		
Concur with	DOE Guidance 🗹		
Using DOE WAP H&S funds	for radon mitigation is p	prohibited.	
Allowable 1	Testing/Inspection		
Allowed with DOE WAP H&S Funds □	Allo	wed with Alternative Funds	
Radon testing is not allowed with DOE H&S funds.			
Required O	ccupant Education		
Concur with DOE Guidance ☑ Alternative Guidance □			
Provide all occupants EPA's A Citizen's Guide to Radon and inform them of radon related risks.			
 Occupants must sign an informed consent form prior t 	o receiving weatherizat	ion services.	
6.16 – Safety Devices: Smoke and Carbon Monoxide Alarms, Fire Extinguishers			
Required Actions			
Concur with DOE Guidance Alternati	ve Guidance 🗹	Results in Deferral/Referral	
DOE WAP H&S Funds		Alternative Funds ☑	
Smoke Alarms: Where alarms are not present or are inoperable, one UL-217 listed smoke alarm will be installed outside sleeping			
areas and on each habitable floor within every weatherized home. Alarms shall have non-removable, non-replaceable 10-year			
lithium batteries.			
Carbon Monoxide Alarms: Where alarms are not present or are inoperable, one CO alarm will be installed outside the primary			
sleeping area and on each habitable floor within every weatherized home. Alarms shall be sealed lithium battery unit.			
Fire Extinguishers: Fire extinguishers are not an allowable H&S measure.			
Allowable Actions			
Allowed with DOE WAP H&S Funds ☑		wed with Alternative Funds	
See above			
Prohibited Actions			
Concur with DOF Guidance ✓			

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Using DOE WAP H&S funds for replacement	ent of functional smok ا lifetime is		at are not beyond the manufacturer's stated
	Required Testi		
Concur with DOE Guidance ☑	Alternative (Results in Deferral/Referral
DOE WAP H&S Funds ☑		Juluance L	Alternative Funds 🗹
	/erify operation and a	ge of installed alar	
·	Allowable Test		1115.
Allowed with DOE WAP H&S Fu			owed with Alternative Funds
		al allowable testing	
	Required Occup		D'
Concur with DOE Guidance	•		Alternative Guidance
		f newly installed de	evices and the potential risks of not properly
	maintaining t	•	,
	0		
6.17	7 – Ventilation ar	nd Indoor Air Q	luality
	Required	Actions	
Concur with DOE Guidance 🗹	Alternative (Guidance 🗆	Results in Deferral/Referral □
DOE WAP H&S Funds □ Alternative Funds ☑		Alternative Funds ☑	
Install ventilation as required by ASHRAE 62.2 - 2016. If occupant refuses ventilation as required by ASHRAE 62.2, the home must			
	be def	erred.	
Allowable Actions			
Allowed with DOE WAP H&S Funds □ Allowed with Alternative Funds □			
For all DOE funded homes, ASHRAE 62.2-2016 minimum ventilation standards are required to be met to the fullest extent			
possible and are allowable H&S costs. Additional ventilation will be added, or existing ventilation modified, where			
required. When installing a new fan to meet whole-house ventilation requirements, actions will be taken to minimize			
zonal pressure differences greater than 3 pascals across the closed door. The KHRC provided ASHRAE 62.2-2016			
spreadsheet or the ASHRAE 62.2-2016 calculator from the Residential Energy Dynamics (RED) website will be utilized.			
Required Testing/Inspection			
Concur with DOE Guidance 🗹	Alternative (Guidance □	Results in Deferral/Referral
DOE WAP H&S Funds ☑ Alternative Funds ☑			
 ASHRAE 62.2 evaluation to determine required post-weatherization ventilation. 			
 Measure fan flow of existing fans and of installed equipment to verify performance. 			
Allowable Testing/Inspection			
Allowed with DOE WAP H&S Funds □		All	owed with Alternative Funds
	No add	ditional actions	
	Required Occu	pant Education	
Concur with DOE Guidance 🗹 Alternative Guidance 🗆			
·		maintenance (inclu	iding location of service switch and cleaning
instructions) of ventilation system and components.			

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Include disclaimer that ASHRAE 62.2 does not account for high polluting sources or guarantee indoor air quality.

Provide occupant with equipment manuals for installed equipment.

6.18 – Water Heaters (see Combustion Appliances for combustion related requirements) Allowable Actions Allowed with DOE WAP H&S Funds ☑ Water heating systems, i.e., water heaters, can be replaced using H&S funding if one of the following circumstances exists: • Leaking AND would prohibit the installation of an approved measure or for the protection of a weatherization measure. Producing a high concentration of CO • Installation of an on demand, direct vent, or fan assisted water heater is allowed if the required draft cannot be established after all other considerations. Fuel switching to an electric tank may also be considered but requires a field waiver from KHRC. **Required Testing/Inspection** Concur with DOE Guidance ☑ Alternative Guidance Results in Deferral/Referral □ DOE WAP H&S Funds ☑ Alternative Funds ✓ Visual inspection of all water heaters and related piping for safety and leaks See Combustion Appliances section for related combustion safety testing requirements. Allowable Testing/Inspection Allowed with DOE WAP H&S Funds ☑ Allowed with Alternative Funds □ Visual and combustion testing as required per KWAP mechanical inspection forms. **Required Occupant Education** Concur with DOE Guidance ✓ Alternative Guidance □ Appropriate use and maintenance of units. Provide all paperwork and manuals for any installed equipment. Where combustion equipment is present, provide combustion safety and hazards information including how to recognize depressurization, dangers of CO poisoning, and fire risks associated with combustion appliance use. 6.19 – Worker Safety **Required Actions** Concur with DOE Guidance ✓ Alternative Guidance Results in Deferral/Referral □ DOE WAP H&S Funds ☑ Alternative Funds ☑ Adherence to all federal, state, and local worker safety regulations (e.g., OSHA, EPA). **Allowable Actions** Allowed with DOE WAP H&S Funds □ Costs for subrecipients to comply with general OSHA requirements may be charged to program support as tools and equipment. **Prohibited Actions** Concur with DOE Guidance ☑ Using DOE WAP H&S funds for major repairs as defined by the Grantee's H&S Plan is prohibited.

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Define "major" repairs

Allowable Testing

Allowed with DOE WAP H&S Funds □

Not applicable

Not applicable

Allowed with Alternative Funds □

X – (Insert Additional H&S Items for Use of DOE WAP H&S funds)			
Required Actions			
Concur with DOE Guidance	Alternative (Guidance 🗆	Results in Deferral/Referral □
DOE WAP H&S Funds			Alternative Funds □
	Insert re	equired item text	
	Allowabl	e Actions	
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If DOE WAP H	&S Funds are used fo	r any "allowable" acti	ons, detail them here.
	Prohibite	d Actions	
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What is prohibited			
	Required Test	ing/Inspection	
Concur with DOE Guidance	Alternative Guidance Results in Deferral/Referral		Results in Deferral/Referral □
DOE WAP H&S Funds □ Alternative Funds □			Alternative Funds □
Insert required item text			
Allowable Testing/Inspection			
Allowed with DOE WAP H&S Funds ☐ Allowed with Alter		ved with Alternative Funds □	
If DOE WAP H&S Funds are used for any "allowable" testing, detail them here.			
Prohibited Testing/Inspection			
Concur with DOE Guidance □			
What is prohibited			
Required Occupant Education			
Concur with DOE Guidance □ Alternative Guidance □			Alternative Guidance
Insert required item text			

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