

## WPN 22-7 – Additional Resources & References

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## GENERAL HEALTH AND SAFETY

DOE has provided numerous additional H&S resources for the WAP. The guidance itself has been greatly revamped from previous H&S guidance documents to assist Grantees and Subgrantees when dealing the numerous health and safety issues one is faced when completing a Weatherization project. Linked below are additional resources that will assist Grantees and Subgrantees of the WAP to implement the related H&S guidance:

- [WPN 22-7: Weatherization Health & Safety](#)
- [WPN 22-7 Table of Issues](#)
- [WPN 22-7 Frequently Asked Questions \(FAQs\)](#)
- [Webinar Outlining Changes from WPN 17-7 to WPN 22-7](#)
- [Program Year 2022 Grantee H&S Plan Template](#)
- [Optional Radon Disclosure Form Clients for Compliance](#)
- [WX TV - General Health and Safety](#)

## DEFERRAL ADDITIONAL RESOURCES

Additional resources to help our clients when the difficult decision to defer has to be made.

Below are several links to additional information with regard to resources that may be able to assist clients when placed on deferral status:

- [Habitat for Humanity Home Preservation](#)
- [HOMES Investment Partnerships Program HUD Home funds](#)
- [USDA Single Family Housing Repair Loans & Grants](#)
- [HUD - Fixing Up Your Home and How to Finance It](#)

## AIR CONDITIONING, HEATING SYSTEMS, & COMBUSTION APPLIANCES

- [EPA Fuel Tank Disposal](#)
- [ENERGY STAR, When Is it Time to Replace Guide](#)
- [WX TV - Gas Furnace Basics Part 1 - Initial Assessment](#)
- [WX TV - Gas Furnace Basics Part 2- Testing](#)
- [WX TV - Gas Furnace Basics Part 3- Troubleshooting High CO](#)
- [US Consumer Product Safety Commission Appliance Recall Notices](#)
- [EPA HVAC Checklist](#)

## FIREPLACES AND WOODSTOVES

- EPA's [Burn Wise website](#) for free outreach and education tools (e.g., brochures, fact sheets and videos) that provide basic tips on how to properly burn wood and maintain a wood burning appliance.
- [Annex J](#) of BPI 1200 regarding inspection standards.

## **ASBESTOS**

EPA resources that will help guide Grantees and Subgrantees when looking for information.

- [What is Asbestos?](#)
- [Health Effects From Exposure to Asbestos](#)
- [Training, Testing and Certification](#)
- [Operations and Maintenance Guidance](#)

## **BIOLOGICALS AND UNSANITARY CONDITIONS**

There are a number of resources that provide examples of biological hazards and how you might detect them, the risks they pose to workers, and more.

- [The Canadian Centre for Occupational Health and Safety has a number of issue-specific fact sheets.](#)
- [US EPA describes biological pollutants' impact on indoor air quality and provides tips for reducing biological pollutants.](#)
- [The US Consumer Safety Product Commission provides a helpful client education booklet on indoor biological pollutants and how to maintain a sanitary home.](#)

## **BUILDING STRUCTURE AND ROOFING**

In a general sense, the guidance on this issue is focused on identifiable roof leaks, and structural issues that would make performing work or inspections on an area unsafe. WAP auditors and inspectors are likely already noting these things, but if they want to learn more about specific things to look for, this [Checklist for the Routine Inspection of Buildings](#) developed by the Kansas State Historical Society is helpful.

## **CODE COMPLIANCE**

Grantees and Subgrantees are required to follow the Local Authority having Jurisdiction. Below are references that can be utilized to assist Grantees and Subgrantees when dealing with code issues.

- [State Building Code Office Links](#)
- [State Energy Code Office Links](#)

## **COMBUSTION GASES**

There are a lot of resources out there to help understand combustion gases, the dangers involved, and testing procedures. Here are some recommendations to get you started:

- [EPA provides a good overview of Carbon Monoxide's \(CO\) impact on Indoor Air Quality \(IAQ\)](#)
- [US Fire Administration has a nice set of CO Safety outreach materials.](#)
- [Consumer Product Safety Commission has a nice brochure about the dangers of CO and how to avoid them in the home.](#)
- [OSHA's CO Fact Sheet includes instructions on what to do if you suspect someone has CO poisoning.](#)

- [ANSI/BPI-1200-S-2015 Standard Practice for Basic Analysis of Buildings includes combustion safety testing requirements and action levels.](#)
- [WXTV has a number of episodes related to evaluating different types of heating systems](#)
- [DOE's training module - Heating Systems for Energy Auditors and Inspectors.](#)

## **ELECTRICAL**

Numerous resources exist with regards to electrical issues. Below are several resources that will provide additional information:

- [Home Electrical Safety Checklist](#)
- [OSHA Electrical Hazard PowerPoint Presentation](#)
- [Electrical Safety Foundation Home Hazards](#)

## **FUEL LEAKS**

What are the dangers of fuel leaks and how to detect them? Most gas utility companies or associations have useful information on their websites, including the number to call if you find a gas leak, so look there for local information. Here are some other resources that might be helpful:

- [DOE WAP Standardized Curriculum for Energy Auditors, Chapter 6, "Combustion Appliances," includes testing procedures based on fuel type.](#)
- [National Fire Protection Association \(NFPA\) 54, available to view free online, includes a suggested method of checking for leakage in Appendix C.](#)

## **GAS OVENS/STOVE TOPS/RANGES**

Here are some resources for safety awareness and testing protocols for gas ovens and stovetops:

- [ANSI/BPI-1200-S-2015 Standard Practice for Basic Analysis of Buildings includes testing requirements and action levels.](#)
- [PreventFire.com has client education materials about stovetop and oven safety.](#)
- [WAP guidance and the BPI standard no longer require CO testing for stovetops, but if you would like to test, R.J. Karg Associates developed a protocol that produces consistent, meaningful results.](#)

## **HAZARDOUS MATERIALS**

The EPA is charged with regulating hazardous material disposal from the federal level. Grantees and Subgrantees are also required to follow the local Authority Having Jurisdiction, which may have more stringent disposal requirements than the EPA.

- [EPA's hazardous waste site](#), which contains basic information, and disposal requirements from the federal perspective.
- EPA [VOC's impact on indoor air quality.](#)
- [EPA's guide for protecting good air quality in the home, and additional related client education resources.](#)

## LEAD BASED SURFACE COVERINGS

Do you know enough about working lead-safe? Your training provider may be a good resource, and you can learn more here:

- [WX TV has a 6-part series on working lead-safe and why it matters.](#)
- [EPA's Renovation, Repair and Painting \(RRP\) Program](#)
- [EPA's RRP Page targeted towards contractors](#)
- [DOE WAP's Standardized Training Curricula on Lead Safe Weatherization](#)

## MOLD AND MOISTURE

There are so many resources, the hard part might be determining which are most valuable. Here are some we recommend:

- [EPA's Mold home page](#), which includes a Mold Slideshow
- [EPA's interactive Mold House Tour](#)
- [EPA's Moisture Control Guidance for Building Design, Construction and Maintenance](#)
- WXTV has a 14-minute episode on [Mold & Moisture](#) and comes with a [form helpful for integrating the episode into training](#).

## OCCUPANT PRE-EXISTING OR POTENTIAL HEALTH CONDITIONS

What resources exist to assist me in notifying clients with pre-existing conditions about the potential issues that may arise when completing weatherization measures on their home? As indicated in the FAQ's, the intent of client health screening is to inform the client of some of the aspects of weatherization that may be bothersome to individuals with certain health conditions. It is also an opportunity for the client to self-identify to the Agency about these conditions. Below is a link to the FAQ section of HIPAA for professionals.

- [HIPAA FAQs](#)

## PESTS

Numerous resources are available related to pests in the home. Below are several links that will provide you additional information on pests:

- [Pests in your area locator](#)
- [EPA Pest Control](#)
- [County Offices pest links](#)

## RADON

The EPA website is a great source for resources about radon, the risks involved and mitigation strategies:

- [National and State map of radon zones](#)
- [Regional Radon Training Centers](#)
- [Radon FAQs](#)
- [Resources for Individuals and Families, Homebuyers and Sellers, and Builders](#)

## **SAFETY DEVICES: SMOKE & CARBON MONOXIDE ALARMS, FIRE EXTINGUISHERS**

There are many great resources on this topic from organizations like the National Fire Protection Association (NFPA), the Consumer Product Safety Commission (CPSC) and more:

- [Smoke Alarms](#)
- [CO Alarms](#)
- [Fire Extinguishers](#)
- [CPSC brochure about the dangers of CO and how to avoid them in the home, including common causes of elevated levels of CO.](#)
- CPSC information for WAP workers and clients in [“Smoke Alarms - Why, Where and Which?”](#)
- [The U.S. Fire Administration provides information on choosing and using fire extinguishers](#)

## **VENTILATION AND INDOOR AIR QUALITY**

The core document for requirements around residential ventilation is ASHRAE 62.2-2019, Ventilation and Acceptable Indoor Air Quality in Residential Buildings. A new version of the Standard is published every three years (usually in the Spring).

- The [62.2 User’s Manual for ASHRAE Standard 62.2-2019](#) is very helpful. It includes a discussion of the Standard, background material, and many good examples of proper application of the Standard. Available for purchase.
- There is also the [ASHRAE Guideline 24: Ventilation and Indoor Air Quality in Low-Rise Residential Buildings](#). This document provides information aimed at helping to achieve good indoor air quality that may go beyond the minimum standards presented in ASHRAE 62.2. Available for purchase.
- [Read-only versions of the ASHRAE resources](#)
- [ASHRAE approved addenda, errata sheets, and interpretations](#)

## **WORKER SAFETY**

Subgrantees are required to follow all worker and occupant protection requirements based upon the scope of work being performed. Below are several links that help provide additional information to certain recurring inquiries regarding worker protection topics (this should not be viewed as an all-inclusive list, but rather as a small sample of worker protection requirements):

- [OSHA Confined Space](#)
- [OSHA Fall Protection](#)
- [OSHA Respiratory Protection](#)
- [OSHA Hazard Identification](#)
- [National Safety Council Workplace Safety Training](#)
- [WX TV - Fall Protection](#)
- [WX TV - Respirators and Personal Protective Equipment](#)