

Welcome to the Hanford ALARA Center!

*Solutions to facilitate a safe and efficient work
in a nuclear environment.*



U.S. DEPARTMENT OF
ENERGY

About the ALARA Center

- The Hanford ALARA Center is a facility for developing ideas, performing mock-ups and developing work instructions. We also seek safety, radiological and engineering solutions for those working in decontamination & decommissioning (D&D) areas and other areas with radioactive or hazardous conditions.
- ALARA stands for “As Low As Reasonably Achievable”.
- The Center is operated by the Mission Support Alliance for the Department of Energy



ALARA Center Location

- The ALARA Center is located on the Hanford Site in the 200 East Area, in Building 2101M - Room 226.



The ALARA Center is a Resource

- Site personnel can try out tools, safety supplies and D&D equipment, as well as evaluate potential processes to enable them to perform hazardous work more safely.
- Organizations outside of Hanford can also access the Center's resources to help them perform D&D and nuclear work more safely.

The ALARA Center Supports You

- If the ALARA Center does not have an item you need, they will attempt to find the appropriate item for you.
- ALARA Center staff has experience performing Department of Energy D&D work, power plant operations, special projects and field remediation.



Equipment and Tools

- Most of the equipment, tools and safety supplies at the ALARA Center have been donated or are on loan from the vendors.
- Equipment and tools can be loaned to site contractors for evaluation.

Respirators

Several respirator and safety companies display their products for site personnel to see and evaluate.



Fixatives for Contaminants

Fixatives are used to contain contaminants.

Fixatives can be used on dirt, concrete, metals and some wet surfaces
They can also be used inside pipes.



Containment Tents

Containment tents are used for hands-on training.

ALARA Center staff can help with custom-designed containment tents.



Glovebag Basics

Glovebag mock-up training and design work are done at the ALARA Center.



Demonstration of ALARA Tools

At the ALARA Center, Workers can see how ventilation affects work inside a glovebag and how ventilation can be an effective engineering control.



Pipe Draining Equipment

Hot taps are used to drain radioactive systems by drilling into pipes.

Hot taps can be used on “live” systems.



Mechanical Decontamination Tools

Shrouded tools are designed to be used with HEPA-filtered vacuums to capture contaminated dust and debris.



Peristaltic Pumps

Peristaltic pumps contain liquid in the hose and do not allow contamination to enter the pump.



Hydraulic Torque Wrenches

A “Hy-torc” tool can remotely operate Tank Farm jumper bolts inside pits, which reduces radioactive exposure to workers.



Clamshell Pipe Cutting Tool

A “clamshell” can remotely cut pipe and prep for a butt-joint weld in one operation. They can also be used in tight spaces.



HEPA-Filtered Vacuums

The ALARA Center displays several different styles of HEPA-filtered vacuums and blower units.



HEPA Filters and Attachments

HEPA filters, spark arrestors, stove pipe dampers and other ventilation equipment are on display at the ALARA Center.



Ventilation Mock-Ups

HEPA-filtered ventilation mock-ups are used to demonstrate air flow and particle capture.



Innovative Scaffolding

Modular scaffolding can be installed and removed in less time than regular scaffolding, thus saving exposure time and dose to workers



Temporary Radiation Shielding

The ALARA Center displays shielding from several different vendors. The Center also maintains a list of shielding vendors.



Work Planning

Work planning teams regularly visit the Center to develop work instructions and procedures.



Additional Services

- ALARA Center personnel routinely train on the use of equipment, tooling and processes.
- ALARA Center personnel can assist Hanford contractors in work planning and facility walk-downs.
- The ALARA Center does not charge projects for its support and services.

Contact Information

- Jeff Hunter
- Work: (509) 373-0656
- Cell: (509) 308-5627
- Fax: (509) 376-7717
- E-mail: jeffrey_l_hunter@rl.gov

