

**From:** Waggoner, Larry O  
**Sent:** Friday, February 04, 2005 2:32 PM  
**Subject:** ALARA Center Activities for Week of January 31, 2005

**Attachments:** Repairing Containments.doc  
Visit our web-site at [www.hanford.gov/alara/](http://www.hanford.gov/alara/)

1. Visited the Life Sciences Lab-2 in North Richland with PNNL Rad Engineers and looked at locations where they have to remove 250' of contaminated PVC piping. Recommended they cut the piping over a catch basin with a HEPA filtered vacuum cleaner connected upstream on the pipe. If there isn't enough airflow during the initial cut to prevent contamination spread, recommended they drill a hole and spray expandable foam inside the cut. Also provided them four suggestions on tools that could be used to sever the piping in areas with limited access.
2. Loaned the ALARA Center classroom to CH2M to give a new class on the ALARA Management Worksheet. Provided tour of the ALARA Center to 5 personnel from Environmental Protection. 12 Operators from PFP used the mockup room to practice and qualify on use of power hand tools and nibblers for size-reducing waste. PFP engineer visited the Center and tested the CS Unitec saws-all that clamps to piping or I-beams. They have to cut a complex piece in a PFP glovebox and are looking for a method to adapt the clamp and saws-all so they can complete the work. See [www.csunitec.com](http://www.csunitec.com)
3. Conducted PHMC Monthly ALARA Council meeting. Owen Berglund provided an update on recent changes in work planning at CH2M. They will be revising Fluor's computerized Job Hazard Analysis Program to fit the hazards with work in Tank Farms. Contacted Trumpf Tools and obtained copies of their certification paperwork showing many of their tools have been tested by a Nationally Recognized Testing Lab. D&D had recently purchased a nibbler but the tool didn't have the UL label. Electrical Safety personnel determined that having the paperwork wasn't enough; the tool needed to be labeled. Trumpf rep will be here Monday to install a label.
4. Forwarded info on the Effective Use of Portable HEPA filtered ventilation to T. Hogg. He is working on improving how ventilation is used at SNF to control contamination spread. Visited WRAP and met with Radcon Manager & ALARA Chairperson. Low levels of airborne radioactivity have been detected when full waste drums are lowered from the gloveboxes. New engineered controls are needed to capture this contamination before higher dose rate drums are sorted. The ALARA Center will work with the facility to try and eliminate the airborne problem.

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#### FOR YOUR INFORMATION

1. Six personnel from INEEL will visit Hanford next week to meet with D&D personnel from BHI, 233-S, U-Plant and PFP. Meetings are scheduled for Tuesday through Thursday.
2. The ALARA Center is often asked how to repair containments, glovebags and other plastic products. Attached is a Handout that describes two methods to repair these products. If personnel that read this report have other ideas or techniques please forward them to the ALARA Center. We'll add them to this Handout.

#### LESSONS LEARNED

Received the following message from John Bickford, the PHMC Lessons Learned Coordinator.

<http://www.eh.doe.gov/paa/oesummary/oesummary2005/oe2005-02.pdf>

The latest edition of the DOE Operating Experience Summary (link above) contains three articles that may be of particular interest to our workers:

1. USE THE RIGHT FILTER WITH YOUR RESPIRATOR(Incorrect PAPR assembly put a RCT at risk in a high radiation area.)
2. FOLLOW SAFETY PRECAUTIONS WHEN USING GRINDING EQUIPMENT(Describes several fatal grinding wheel disintegrations and mentions a non-injury event here at Hanford in 1999.)
4. ALERT: CPSC RECALLS CELL PHONE BATTERIES(Lists several models of batteries that may be in your cell phone.)