

**From:** Eby, Jerald L

**Sent:** Monday, January 17, 2005 9:15 AM

**Subject:** ALARA Center Activities for Week of January 10, 2005

Please visit our web site at: [www.hanford.gov/alara/](http://www.hanford.gov/alara/) . This report combines the activities of the ALARA Center for the last two weeks of 2004.

1. Visited demonstration of Champion shear at CH2M shop area. Shear cut 6" diameter carbon steel piping that had 3" stainless pipe inside. Cut was completed in less than two minutes. The shear weighs about 500 pounds and would be hung from a crane to make the below-ground cuts. CH2M is evaluating this tool for use in making about 20 cuts inside a Tank Farm to remove piping. See [www.championrescuetools.com](http://www.championrescuetools.com). Another tool being evaluated is the Wach's Guillotine saw. Forwarded photos to the CH2M Radcon Director of the saw being used by CH2M to cut up highly radioactive pumps. See [www.wachsco.com](http://www.wachsco.com). This saw mounts to the pipe with a heavy-duty bicycle chain and cuts the piping at about 1" per minute.

2. Forwarded info BHI engineer on concrete demolition using a spalling technique. Read about this at <http://apps.em.doe.gov/OST/pubs/itsrs/itsr2152.pdf>. They are also looking at using expandable grout to break up a concrete pedestal. Forwarded the link to the DOE Decommissioning Handbook which is <http://www.osti.gov/gpo/servlets/purl/10157678-yUQL4E/webviewable/10157678.pdf> Section 10 concerns segmenting and demolition and includes info on breaking up concrete with expanding grout and spalling tools.

3. Forwarded info to key D&D Radcon personnel on a new 3-dimensional indoor contamination survey system. This system uses off-the-shelf radiological instrumentation linked to a fan laser positioning system to record count rates and x, y, and z coordinates of radioactive emissions from surfaces such as walls and floor. The data is logged on a hand-held PDA and then downloaded to a computer. For more information, contact Environmental Restoration Group (ERG) at <http://www.ergoffice.com/>

4. PFP facility is looking at PPE coveralls from Unitech Pro-Tech 2000 with a penetration sleeve in the back of the suit to allow a breathing air system to be used inside in conjunction with the PPE. Loaned male dummy with a regular Pro-tech 2000 suit to PFP to assist with a facility demonstration.

#### **NEW VENDOR INFORMATION AND VISITS**

1. Contacted Puget Sound NSY about shielding available from ZADA Technologies, web site: [www.zadatech.net](http://www.zadatech.net) or phone Larry Miller at 1-918-828-0111.

2. Everest VIT was at the Center discussing remote miniature cameras and retrieval gear. Web site: [www.everestvit.com](http://www.everestvit.com) . Everest Visual Inspection Technologies met with CH2M personnel at the ALARA Center to discuss improvements needed in the camera systems used in underground tanks. CH2M Radcon got price info on a video probe with grapppler that could be used to survey the inside of Tank Farms pits prior to removing cover blocks. Everest VIT rep met with other site personnel on use of miniature cameras.

3. The Center hosted three training seminars by NFSRPS Rep on Engineered controlled ventilation. The seminars were well attended by over 40 personnel from Fluor, CH2M Hill, PNNL, Duretex, RL DOE and FWLR. The Seminar Sessions covered: Ventilation as an Engineering Control, Principles of air flow, Ventilation system components, System design and configuration, System performance, Achieving objectives of contamination control and Evaluation of system effectiveness. Web site: [www.nfsrps.com](http://www.nfsrps.com) .

#### **FOR YOUR INFORMATION**

The Department of Energy (DOE) has approved the Savannah River Site (SRS) to host the first SRS ALARA Workshop on May 2 - 4, 2005. The ALARA Workshop will be open to the DOE complex and commercial nuclear power plant personnel as both attendees and presenters. The Workshop will focus on education and information exchange for applied ALARA programs. Subject matter expert presentations are planned for Monday and Tuesday, and an onsite tour of SRS is planned for the morning of the last day Wednesday. (This includes a tour of the ALARA Center and Containment Fabrication Facility). Vendors will also be present on Monday and Tuesday to display their products. A call for presenters and vendor involvement will be issued early in 2005.

The Workshop will be held at the Augusta Towers and Hotel Convention Center, Augusta, Georgia. The hotel rates are per diem and a workshop registration fee of \$50 will cover breaks and miscellaneous meeting expenses for participants. Vendor fees are still being evaluated and will be provided in the call for vendor involvement.

Please reply to the undersigned if you have an interest in attending (either as a attendee, presenter, or vendor). Additional information on agenda and hotel reservations will be issued in early 2005 for participants.

**See you at the SRS ALARA Workshop.**

Please refer all questions and comments on the SRS Workshop to:

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