

**From:** Eby, Jerald L

**Sent:** Monday, May 16, 2005 6:58 AM

**Subject:** ALARA Center Activities for the weeks of May 2nd and May 9th, 2005

Visit our web site at [www.hanford.gov/alara/](http://www.hanford.gov/alara/)

1. This report will cover the weeks of May 2nd and May 9th, do to the Center being closed for a week while Larry was in Savannah River DOE Site for the ALARA Conference and Oak Ridge DOE Site giving presentations on ALARA at Hanford and Jerry was at the Hanford Health and Safety Expo in Pasco.
2. The Center made a copy of the operating procedure for the IntelaGard Foam Applicator and delivered the procedure to K-Basins for preparation of writing a decontamination procedure using the equipment in the basins. This was the same system that performed the successful concrete floor decon at the old ATG facility in North Richland a couple weeks ago. See web site: [www.intelagard.com](http://www.intelagard.com) , distributed by National Safety, web site: [www.nationalsafetyinc.com](http://www.nationalsafetyinc.com) .
3. Provided comments to PFP engineering concerning a HEPA filtered wet/dry vacuum cleaner they want to purchase. Recommended they have a drain added so the vacuum can be emptied of liquid before it is discarded as rad waste. This saves opening the vacuum to empty the liquid.  
Forwarded photos of the Fog Cannon used during Building 233-S D&D to CH2M Hill. They plan to put up photos of new ALARA tools on their bulletin boards. Provided samples of OREX disposable clothing to PNNL for evaluation. They are restocking emergency response kits and intend to use disposable, rather than launderable protective clothing. The ALARA Center has enough samples of this clothing that contractors can try it out on mock-up training or during actual work. Read an ERPI report about OREX at: [http://nuclearissuesforum.org/nif\\_diss-clothing.html](http://nuclearissuesforum.org/nif_diss-clothing.html) or <http://www.orex.com/>  
Provided info to PFP on a "hot tap" that could be used to puncture piping to connect HEPA filtered ventilation. See [www.Ridgid.com](http://www.Ridgid.com) Select "Products", then click on "Pipe Treading/Fabrication", and scroll down to "Tapping Tools". Hot Taps can also be found at <http://www.expansionseal.com/html/stpg1.htm>. Click on "D-Series Tapping Tools". This work practice will draw air into the pipe as it's being cut in other locations and reduce airborne contamination spread. Hot taps are often use to drain and/or depressurize systems prior to opening. Forwarded product bulletin from Nuclear Filter Technology on their Criticality Safe Vacuum Cleaner to PFP D&D personnel. See [www.nuclearfilter.com](http://www.nuclearfilter.com) .
4. Provided info to Savannah River Site on misting/fogging techniques used at Building 233-S during D&D. SRS is considering using similar techniques on an upcoming job. Provided additional info to Oak Ridge concerning the Rad-Pro process used to decontaminate the radioactive chemical spill that was cleaned up at the old ATG building a few weeks ago. They have a similar contaminated area they want to decontaminate in their Building 2026 hot cell facility. Provided info on the EDO Gamma Camera to Oak Ridge. EDO used to be AIL Systems. See <http://www.edocorp.com/NuclearDetectionImages.htm>
5. Forwarded info to BHI field engineer on fixatives currently in use at Hanford. They want to apply a long lasting, penetrating suppressant as they excavate a mound of dirt in the 618-2 burial ground. They asked about a "tracer" they could add to make it easier to see where the fixative had been applied. Recommended dying the fixative with "Bright Dyes" or a florescent material. See [www.brightdyes.com](http://www.brightdyes.com) or [www.fogging.com](http://www.fogging.com).
6. Personnel from SWSD stopped by and looked at several HEPA filtered vacuum cleaners, collection drums and in-line HEPA filters. Dropped off a catalog from Knox Material Handling to the SWSD Radcon Manager. They are looking for improved waste drum handling equipment that will make it easier and safer to take neutron readings on the bottom of the drums. See <http://www.theonlinecatalog.com/knoxmaterialhandling/> . Provided suggestions to BHI on installing temporary shielding on the outside of the containers used to transport rad waste to ERDF.

SWSD called the Center looking for replacement radios for field work. Suggested Cobalt Audio and Video. Web site; [www.cobaltav.com](http://www.cobaltav.com) or 859-489-6241. Dave Fried of Cobalt (formerly Comtronics) has provided assistance to the site on past issues and has been very effective.

#### UNDER FYI

1. Forwarded notices of the MJW Corp announcement of the Multimedia and Software Users Group meeting to be held July 9 in Spokane, WA. This coincides with the 50th Annual Health Physics Society meeting from July 10-14 in Spokane. Ideas will be shared, lessons learned will be discussed and new technology will be discussed. BHI, PNNL and CH2M currently use the MJW system for electronic surveys and records. To be added to the MJW Users Group mailing list, call (888) MJWCORP or email [chaas@mjwcorp.com](mailto:chaas@mjwcorp.com).

2. Larry attended the Savannah River ALARA Workshop last week and made two presentations on the ALARA Protective measures and lessons learned at Buildings 244-AR and 233-S. Another presentation on the use of fixatives at Hanford was made by Greg Perkins. A bus tour included a visit to the SRS ALARA Center, Containment Fabrication Facility, Radiological Mockup Training Facility and Instrument Calibration Facility was part of the Workshop. Larry also visited the Oak Ridge DOE Site and was escorted through several facilities that included a linear accelerator, hot cell facility and two other research facilities. On the second day, he made three presentations to the radiological control organization on Innovative ALARA Techniques being used at Hanford for D&D.

AVAILABLE MATERIAL: There are 3-1/2 55 gallon drums of steel shot (shielding?), at Building 324. Contact Dean Humphreys at 372-952 for further information. There are a number of ventilation damper transition pieces, metal, various sizes, and a number of 40-50 cfm HEPA filters for glove bags/containments are available at the ALARA Center, contact Larry or Jerry.

#### VENDOR INFO

1. 3M Demo Van will be at the Center May 31st, from 9:00 to 3:00. There will be a couple of 3M representatives here to discuss specific 3M products and present some demonstrations. Contact the Center, by COB May 19th, if you have any special issues that you would like 3M to address during the Demo Van visit.

#### New Products at the Center:

TRI-E Radiation Technologies, LLC. This company has three products that they sent samples to the Center. Gamma-Guard (TM) Technology, Neutron-Guard (TM) Technology, and Super Absorbent Complex Polymer Technology. Web site: [www.trietechnologies.com](http://www.trietechnologies.com) or 513-870-3840. The company is located in Cincinnati, Ohio.

ISA Corporation, Advance Polymer Technologies. This company has a large selection of protective gloves, anti-C gloves and shoe covers. Web site: [www.isacorporation.net](http://www.isacorporation.net) or 503-371-7811 Ext 17. ISA is the supplier of rubber anti-c and containment gloves to Lancs Industries and DOD Complexes. The Company is located in Salem, Oregon, with manufacturing plants in the USA.

### **Jerry Eby**

ALARA Center of Technology  
509-372-8961 fax 509-376-7717

### **Larry Waggoner**

ALARA Center of Technology  
509-372-8961 fax 509-376-7717