

**Hanford ALARA Center and
D&D Knowledge Management Hotline
Information Update
February 13, 2009**

ALARA Center Activities, Equipment, and Information

1. The Center provided containment training for RCTs from New Brunswick Laboratory located in Chicago. The training includes a classroom presentation, a tour of the ALARA Center, a hands-on tapping and glovebag building exercise, and a tour of the PFP Plastic Shop.
2. The last Information Update provided an incorrect web address for Newton Research Laboratories. The correct address is www.newtonlabs.com. As you may recall, Newton Research Laboratories developed an Unmanned Access Control System (NUMAC) that may be of use at your site. NUMAC is a fully self-contained wall mounted device that control door access hardware and restricts access to authorized personnel who are equipped with the required radiation detection equipment and who are wearing them in the appropriate body mass area. Visit Newton Research Labs website for more information about their products.
3. Mi-Tech Metals, <http://www.mi-techmetals.com/hd-shielding.htm>, can custom produce (examples of machining capabilities below) tungsten radiation shielding that may be of use on your project. Tungsten can provide a unique combination of density, mechanical strength, high-heat tolerant, and corrosion resistance shielding. The physical properties of high-density alloys make them excellent materials for radiation shielding, tungsten alloys are commonly used for radioactive source containers, gamma radiography, and pipe shields but can be customized for your specific need. Visit the Mi-Tech website for more information. Contact the ALARA Center if you would like a list of custom shielding companies.



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4. The Lancs Industries website is now accessible to Hanford workers. The last few weeks the Lancs website was not available to the Hanford site due to technical difficulties. Lancs is a leading manufacturer of containment tents, glovebags (photos below), plastic PCs, and many other products that support DOE and commercial nuclear power work. Visit <http://www.lancsindustries.com/> to learn more about Lancs products.



5. PFP conducted hands-on glovebox training for 25 new Nuclear Chemical Operators in the ALARA Center. The Operators familiarized themselves with power tool use in gloveboxes. They also practiced changing gloves and performing material pass-thoughts. The training was performed as practice for the Operator qualifications and was completed on gloveboxes that at one time were to be installed in PFP.
6. Radiation Shield Technologies offers PCs made of Demron fabric that could be of use for DOE laboratory work and other field applications to keep exposures ALARA. Some of the Demron PC products used to reduce personnel exposures are: a full body suit, forearm shields, and flex apron. Visit <http://www.radshield.com/about.asp> to learn more about Radiation Shield Technologies products.
8. K Basin has a Lancs built containment tent with vestibule and floor but no supporting structure they no longer need. The containment tent was never used. It is 16' w x 20' l x 17-14' h (sloping roof), white, and has windows. The only thing you would have to make or purchase is the support structure. If you would like to use this tent on your project, please contact the ALARA Center or Tom Bladow at K Basin.
9. Three PFP D&D managers toured the ALARA Center and plastic shop. They were planning ahead for summer work and looking at PPE available for cooling workers. They were also interested in various fixatives and various D&D tools on display.

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10. The ALARA Center teamed up with the PFP Plastic Shop to make some clear plastic mittens for a DOE Facility Representative. The DOE Facility Representative had a non-work related injury to a finger and needed special mittens made that would fit over bandaging to enable him to enter contaminated areas.
11. A Radiological Control Manager from Fort Calhoun Nuclear Generating Station in Nebraska contacted the ALARA Center to benchmark Hanford's use of containment tents and glovebags for contamination control. I shared vendor contacts along with general information about our containment practices and our approach to training. Fort Calhoun is looking at integrating some of our practices that would best serve their radiological control program.

D&D Hotline Activities, Equipment, and Information

1. If you would like to learn more about cement visit the Portland Cement Association website at <http://www.cement.org/waste/index.asp>. The site covers everything from the basics to types of Portland cement, types of blends, types of hydraulic cements and many other topics. The site is worth your visit. I learned that Portland cement is named after the Isle of Portland, a peninsula in the English Channel because it produced a concrete that resembled the color of the natural limestone quarried on the peninsula.
2. Atlas Inspection equipment has added a "video of the month" section to their website which will allow you to see different applications of their equipment in use. As you may recall, Atlas rents, repairs, and sells inspection equipment that is used in both operating facilities and D&D sites. To see the Atlas video of the month and learn how Atlas equipment could be used on your project visit www.atlas-inspection.com.
3. The Decommissioning, Decontamination, & Reutilization and Technology Expo in Idaho Falls, Idaho has received preliminary approval from the American Nuclear Society and is moving forward with its formal 'Call for Papers'. Contact Mr. Jim Byrne (jbyrne4424@comcast.net) if you are interest in presenting. The conference is planned for August 29 to September 2, 2010. You can find more information about the conference at http://www.new.ans.org/meetings/c_2.
4. Nick Clyma of GE Inspection Technologies will be at the ALARA Center on February 19, from 10:00 AM to 1:00 PM. He will answer your questions about GE's remote visual inspection systems and discuss how GE's equipment might be a solution for your specific job. For more information about GE visual inspection equipment visit <http://www.geinspectiontechnologies.com/>.

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Contact Information

You are invited to visit the Hanford ALARA Center located on the Hanford site in building 2101M in 200 East rooms 220 to 226. The Center is focused on supporting your project's safety, radiological engineering, ALARA, and D&D challenges. You can also send your questions, comments, and lessons learned to me via e-mail or contact me by phone. Additionally, I would be happy to assist you directly with your project challenges at your site. My contact information is below.

Jeff Hunter (509) 373-0656, Cell (509) 948-5906, jeffrey_l_hunter@rl.gov

Please help me keep the report distribution e-mail address list current by letting me know if you would like added or removed from distribution and by keeping me informed of any e-mail address changes.

Other helpful information links are:

Hanford ALARA Center Website: www.hanford.gov/rl/?page=974&parent=973

D&D Knowledge Management Tool Website: <http://dndkm.arc.fiu.edu/dndkm/>

SRS ALARA Center website: www.srs.gov/general/programs/alara/alara_center.htm

Department of Energy Hanford Site: <http://www.hanford.gov/>

Virtual Hanford Tour: <http://www.hanford.gov/?page=326&parent=317>