

**Hanford ALARA Center and
D&D Knowledge Management Hotline
Information Update
April 10, 2009**

ALARA Center Activities and Information

1. CH2MHill Plateau Remediation Company, K Basins, completed their engineering evaluation on the Champion Rescue Tools (tools pictured below) guillotine cutter and decided to order one. However, to expedite the process K Basin plans to take, and then replace the ALARA Centers tool. For more information about Champion Rescue Tools visit <http://www.championrescuetools.com/>.



2. It is the time to start thinking about how to keep the people assigned to your project safe in summer weather. Equipment will need to be ordered and set up before work-rest regiments due to summer heat is required. Kool N' Safe, <http://koolnsafe.com/main.sc>, can help you with cool-u misting fans, cooling vests and cooling headgear. You should also think about ordering equipment to provide shade for outside work.
3. Technology Review recently featured an article about new technology that was designed to prevent heatstroke. The new device consists of a rugged and highly sensitive sensor encased in a helmet cushion, with the probe pressed against the wearer's forehead in the vicinity of the temporal artery. Temperature readings are beamed to a PDA via a short-range wireless link so workers can be monitored. To review the Technology Review article go to <http://www.technologyreview.com/computing/22312/>. Visit Hothead Technologies at <http://www.hotheadports.com/> to see an example of how the technology is implemented in football helmets to prevent heatstroke.
4. A radiological engineer from Oak Ridge contacted the ALARA Center to benchmark temporary shielding programs used at Hanford. I provided information regarding labeling, field tracking shielding, and the general temporary shielding process. Contact the Center if you would like to benchmark your program.

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5. The Center conducted Containment Training for five CH2MHill RCTs. The course includes a classroom presentation, tour of the ALARA Center, hands-on tapping exercises, a glovebag building exercise, and a tour of the PFP Plastic Shop.

D&D Hotline Activities and Information

1. The Center was asked by Washington Closure Hanford and CH2MHill Plateau Remediation Company to participate in development of D&D worker fundamental training requirements. The focus was to look at D&D fundamental training both companies provide and determine if any areas were missed. Additionally, to develop D&D scenario based training. Both companies still intend to provide job specific training at their sites. The goal is to complete D&D fundamental training requirements in time to train the D&D workers hired to support American Recovery and Reinvestment Act funded projects.
2. Bob Hulick of Bluegrass, a D&D contactor that specializes in nuclear work and is recognized as an industry expert in diamond wire cutting and concrete shaving, will be at the ALARA Center on April 30, at 9:30 AM to present diamond wire cutting and concrete shaving techniques. Bob has agreed to stay after the presentation to discuss your project's specific applications for diamond wire or concrete shaving. For more information about Bluegrass products and services visit <http://www.bluegrassbit.com/>.
3. The WDT-3500 walk-around down draft bench cartridge dust collector offered by ProVent, LLC is a good ventilated and filtered work station for hand tool applications, to "resize" material for waste processing, or processing anomalies. An integral fan produces 3500 CFM (6000 cubic meters/hr) which converts to exceptional capture velocity at the work deck. Large locking casters keep the unit in place where it is needed. For more information about ProVent products visit <http://www.proventilation.com/home/default.asp>.



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4. Innovative Technology, Inc (<http://www.gloveboxes.com/>) has been a worldwide leader in design, development and manufacturing of Inert Glove Boxes and Solvent Purification Systems since 1981. The PureLab line of Inert Glove Box Systems offers the best in atmospheric control, quality components, operator interface and unsurpassed experience in manufacturing standard and customized Glove Box Systems for a wide variety of air sensitive applications. MBraun (<http://www.plasticglovebox.com/>) now offers a cost-effective, mobile solution for inert atmosphere applications, the MB GB-2202 acrylic glovebox system. Thick, clear and durable plastic walls allow optimum visibility and remain impermeable to ambient air. Standard Neoprene gloves provide excellent resistance to abrasion and chemicals. The American Glovebox Society (<http://www.gloveboxsociety.org/>).
5. Brian Evans of Tri Tool visited the ALARA Center to demonstrated set up and cutting techniques of Tri Tool's clam shell cutter for representatives of CH2MHill PFP D&D and Washington Closure Hanford D&D. Tri Tool has a clam shell cutter on display at the ALARA Center so you can evaluate the cutter's use on your project. Visit www.tritool.com or contact Brian Evans at (916) 712-8506 for more information about Tri Tool products and services.

Contacts

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 come to your site to assist with your project's challenges. My contact information is below.

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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 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>

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