

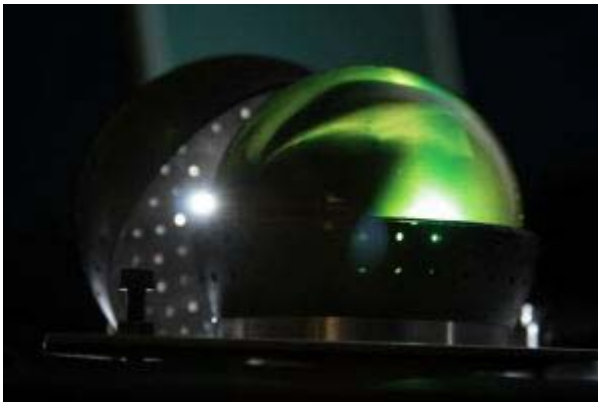


## Hanford ALARA Center and D&D Knowledge Management Hotline Information Update March 25, 2010



### ALARA Center Activities and Information

1. Now is the time to start thinking about ordering PPE to prevent heat stress. Outside temperatures will result in work-rest regiments within the next few months. Quest Environmental (<http://www.questsafty.com/>) developed Q-Gard Quantumwear to help prevent heat stress situations. Quest recently improved the design based on DOE complex workers input. They added “bound” seams, reinforcement behind the doffing straps, enlarged the ankle and foot area to accommodate boots, and revised the hood to fit more securely around a respirator. Quest sent the ALARA Center samples of the improved Q-Gard Quantumwear for you to evaluate at your project. Please contact me if you would like samples.
2. Asbestos workers visited the ALARA Center to look for cut resistant gloves that they could wear while working in an asbestos glovebag. The glove must allow them to maintain enough dexterity to perform asbestos removal and still protect them from cuts. I showed them Majestic ([www.majesticglove.com](http://www.majesticglove.com)) gloves made with Dyneema and Kevlar fabrics that are cut resistant. I also had them try on HexArmor ([www.hexarmor.com](http://www.hexarmor.com)) gloves which are cut and puncture resistant. The workers are considering field testing several gloves to ensure they get the best glove for their work activity.
3. Rad Ball (photo below) is a new radiation detection device, developed by the UK's National Nuclear Laboratory, which makes radiation mapping safe and convenient. The device consists of a colander-like outer sheath that houses a radiation sensitive polymer sphere. Rad Ball requires no power cable and can be positioned in tight or hard to reach places. The outer sheath works to line-up radiation sources and those areas of the polymer sphere that are exposed react, becoming opaque. The inner sphere is scanned and the data digitized allowing sources of radiation to be traced along with type and degree in a given area. For more information about the Rad Ball visit the National Nuclear Laboratory website at <http://www.nnl.co.uk/radball>.





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4. Nuclear Power Outfitters ([www.alarasolutions.com](http://www.alarasolutions.com)) custom designs water shield walls, shielding booths, and tungsten shielding (photos below). These products are often necessary for normal operations and D&D of nuclear facilities. Water shield walls are easy to move while “dry” and provide excellent general area shielding, frisking booth provide personnel a place to self-survey when backgrounds are high, and tungsten is safer to handle and dispose of than lead and can be molded into almost any shape. Contact Nuclear Power Outfitters if you would like more information about their products.



### D&D Hotline Activities and Information

1. Horizon Distribution and SKF are teaming up to provide Hanford with the new SKF Maintenance Products Vehicle. They hope to visit site projects to present live product demonstrations and bring products to your craft to evaluate. SKF specializes in Shaft and belt alignment, bearing installation and removal, fault detection systems, and much more. The vehicle will also be stocked with common D&D equipment. The vehicle should be ready to visit your site by mid-June. For more information about SKF visit [www.skfusa.com](http://www.skfusa.com) and for more information about Horizon Distribution visit [www.horizondistribution.com](http://www.horizondistribution.com).
2. 2K Manufacturing has introduced eco-friendly plastic panels they call Ecosheets (photo below). Ecosheets are made from all types of plastic waste that would have been headed to a landfill. Ecosheets are reusable and may be of benefit to your project. To learn more about Ecosheets visit 2K's website at <http://www.ecosheet.com/>. Or, you can find more companies that supply plastic lumber and plywood alternatives on the web.





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by our customers' success

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3. Savannah River Site requested vendor information for radioactive waste soft packaging. The Center suggested they contact Strategic Packing Systems (Al Beale at 423-545-9505 for more information) or MHF Logistical Solutions ([www.mhfls.com](http://www.mhfls.com)) to see if they could design and build the soft packaging that Savannah River site needed. Soft packaging is often cheaper and easier to handle, especially in remote areas. You may wish to check out both Strategic Packing Systems and MHF Logistical Solutions soft packaging to see if they would benefit your project.

### Contact Information

We invite you to visit the Hanford ALARA Center located on the Hanford Site in Building 2101M in 200 East, Rooms 220 to 226. The Center's focus is on supporting your project's safety, radiological engineering, ALARA, and D&D challenges. You also can 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.

Jeff Hunter: (509) 373-0656, Cell (509) 948-5906, [jeffrey\\_l\\_hunter@rl.gov](mailto:jeffrey_l_hunter@rl.gov)

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Other helpful links are:

Hanford ALARA Center: [www.hanford.gov/rl/?page=974&parent=973](http://www.hanford.gov/rl/?page=974&parent=973)

D&D Knowledge Management Tool: [dndkm.arc.fiu.edu/dndkm/](http://dndkm.arc.fiu.edu/dndkm/)

SRS ALARA Center: [www.srs.gov/general/programs/alara/alara\\_center.htm](http://www.srs.gov/general/programs/alara/alara_center.htm)

Department of Energy Hanford Site: [www.hanford.gov/](http://www.hanford.gov/)

Virtual Hanford Tour: [www.hanford.gov/?page=326&parent=317](http://www.hanford.gov/?page=326&parent=317)

Dade Moeller: <http://www.moellerinc.com/index.php>

Mission Support Alliance: <http://www.msa-hanford.com/>