

## SRS ALARA CENTER (AC)

*Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.*

### MAY 2010 ACTIVITY REPORT

#### **ASSISTANCE, RESEARCH, AND TOURS**

The external SRS ALARA Center website is posted at [www.srs.gov/general/programs/alara/alara\\_center.htm](http://www.srs.gov/general/programs/alara/alara_center.htm)

The internal SRS ALARA Center website is available in ShRINE at the ESH&QA Regulatory and Radiological Technologies web-site. [www.srs.gov/general/programs/alara/](http://www.srs.gov/general/programs/alara/)

The Hanford ALARA Center website is available at [www.hanford.gov/rl/?page=973&parent=0](http://www.hanford.gov/rl/?page=973&parent=0)

The D&D Knowledge Management Information Tool (D&D KM-IT) is a web-based knowledge management information tool custom built for the D&D community. The system was developed by Florida International University – Applied Research Center (FIU-ARC) in collaboration with the Department of Energy (DOE EM20), EFCOG, and the ALARA Centers at Hanford and Savannah River. <http://dndkm.arc.fiu.edu/dndkm/>

Per the request of the Industrial Hygienist in F/H Analytical Laboratory, the Ansell NeoTouch glove has been store stocked. It is a neoprene, single use, powder-free, ambidextrous, textured fingertips, and bright green color. It is 11.4 inches long and 5 mils thick with a beaded cuff. 100 gloves/box, 10 boxes per case. The store stock numbers are 32-24802.00 (small), 32-24803.00 (medium), 32-24804.00 (large), and 32-24805.00 (x-large)

The ALARA Center ordered the following G/O Corp radiological posting items for F/H Analytical Laboratory.

- One Portable Posting Kit, part number GZ1952-N, 36:H x 23" dia. "X" frame base, Magenta and yellow belts, (kit includes four stanchions with carrying bag).
- One sign holder that fits on top of the stanchion, part number GZ2014-N

The ALARA Center provided the HB-Line Radiological Protection Department (RPD) with three disk smear tools. Facilities needing a disk smear tool can contact the ALARA Center. Below is a picture.



The ALARA Center provided the Saltstone Facility Radiological Protection Department (RPD) personnel with information to procure G/O Corp Rad Chain (part #GZ1380). It is rad barrier metal chain, #2 double loop, yellow and magenta, 500 ft. per bucket. <http://www.gocorp.com/product.php?ID=41>

The ALARA Center provided the H-Area Tank Farm ALARA Coordinator with non lead shielding information from the following companies with samples on display in the ALARA Center.

- Ecomass Technologies, <http://www.ecomass.com/>
- Tungsten Spheres, <http://www.tungsten-spheres.com/>
- Zada Technologies, [http://www.zadatech.net/radiation\\_shielding.html](http://www.zadatech.net/radiation_shielding.html)

The F-Area Tank Farm ALARA Coordinator requested ALARA Center assistance in attaching a HEPA filter adapter or tygon tubing to the Fisher Scientific 7.5 inch high 4-gallon lowboy container (Stores caption item number 32-4735.00). Additional caps, gaskets, and fittings were procured to accomplish the task. The lowboy container is used to drain non radiological lines or radiological lines where the 15 inch high carboy container will not work due to height constraints.

The ALARA Center is performing an effectiveness review of the Pre and Post Job ALARA Review Sitewide Database and associated OSR forms, 5Q1.1-505 improvement actions, and participation by the facility ALARA Coordinators and Work Planners during the work planning process. The assessment completion date is July 31, 2010.

The ALARA Center is providing support to HB-Line in the procurement or manufacturing of glove port poly shielding plugs. This is an ALARA initiative to reduce worker occupational radiation exposure.

The ALARA Center provided the Saltstone Facility with the following information concerning laundry bag stands. The ALARA Center will be receiving display samples of both size stands. <http://www.gocorp.com/product.php?ID=76>

<b>Part #</b>	<b>Description</b>
GY1188	30 gallon, black steel tubular frame that disassembles. 18.5 inch diameter, 35 inches high
GY1187	55 gallon, black steel tubular frame that disassembles. 24 inch diameter, 35 inches high

The ALARA Center provided Construction with Glacier Tek Cooling Vest replacement gel pack inserts. The vests will be used by welders performing 70-Ton Cask modifications in C-Area.

Traffic through the ALARA Center has been heavy with personnel interested in items to reduce heat stress. The ALARA Center also conducted multiple demonstrations in the Savannah River National Laboratory (SRNL) on multiple occasions. Special thanks to Eric Gleaton with Construction who gave personal testimony on the effectiveness of the TempVest Cool Vest and CoolTech modesty clothing. Below is a list of items on display many of which were recently evaluated in the field with positive feedback.

- CoolTech Scrubs (modesty clothing) – microdenier moisture wicking fabric available in shorts and short sleeve shirts in a variety of sizes. [http://www.unitech.ws/literature/CoolTech\\_Scrubs.pdf](http://www.unitech.ws/literature/CoolTech_Scrubs.pdf)
- TempVest Cooling Vest – white vest with detachable hood developed by NASA with the ADAPTIVE COMFORT technology was originally designed to help astronauts cope with large temperature fluctuations in space. This garment does not require wetting or refrigeration. Attached is a brochure. 
- Ergodyne Chill-It Cooling Towel – evaporative cooling towel that helps cool the body and absorb sweat during and after work. <http://www.ergodyne.com/products/pages/default.aspx?PCA=14&PRD=296>
- Sqwincher Freeze Pops – easy freeze popsicle that replenishes vital electrolytes and lower your body temperature. One hundred and fifty per case in assorted flavors.

The ALARA Center hosted the following wireless communication system demonstrations in L-Area at the request of Inactive Facilities & Special Projects management.

- 5/4/2010, Bartlett Nuclear AMS, Telex BTR800 system and associated headsets
- 5/5/2010, Comtronics, Inc., DX300 system and associated headsets

The ALARA Center met with Larry Cannon from MHF Services concerning their line of lift liner products. [http://www.mhfservices.com/products\\_packaging.cfm](http://www.mhfservices.com/products_packaging.cfm)

The ALARA Center was contacted by Saltstone Facility Radiological Protection Department (RPD) personnel in need of a hat to protect workers from sun exposure when working on the roof. The ALARA Center determined that the hat chosen would be worn as a single use disposable item because it would be worn in a Contamination Area. Three samples were provided and five cases of the following Keystone hat was ordered. Feedback from workers has been positive. [http://www.keystonecap.com/catalog/utility\\_paint\\_surg\\_caps/pc\\_01.html](http://www.keystonecap.com/catalog/utility_paint_surg_caps/pc_01.html)

## **AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT**

The following items were ordered for H-Area TRU work in the Canyon.

- 101 Unitech CoolTech short sleeve shirts made of microdenier anti-static fabric with size color coded neck
- 86 pairs of Unitech CoolTech shorts made of microdenier anti-static fabric with size color coded draw cord
- 30 Ergodyne Chill-Its Cooling Towels

## **UPCOMING VENDOR VISITS**

Radiation Protection Systems (RPS), 6/9/10, 766-H Rm 1027, 9 AM – 12 PM

## **ALARA CENTER POINTS OF CONTACT**

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