

## SRS ALARA CENTER (AC) APRIL 2007 ACTIVITY REPORT

### ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at <http://www.srs.gov/general/programs/alara> . The internal SRS ALARA Center website is available in ShRINE by performing a quick search on ALARA or ALARA Center.

The FLUOR 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 ALARA Center ordered a Rubbermaid Utility Instrument Cart for the Savannah River National Lab (SRNL) to be used by Lab Techs to store materials at the job site. It is made of heavy duty plastic with rounded corners. Bottom shelf has locking doors to secure contents. 40-5/8"W X 20"D X 37-13/16H. [www.rubbermaidwholesale.com/product\\_info.php?products\\_id=284](http://www.rubbermaidwholesale.com/product_info.php?products_id=284)

The ALARA Center ordered four magnetized wall units for area barricades in SRNL. Each unit has a 24 foot retractable red/white tape and magnet on end (Part number GZ1955-MMM-Red/White). [www.gocorp.com](http://www.gocorp.com)

The ALARA Center recommended Sherwin Williams Tile Clad epoxy in yellow and magenta colors for painting postings on concrete floors subject to forklift traffic.

F-Area Operations provided several tools called toilet seats used to compact drummed TRU waste in pig-tailed poly bags. Additional shielding was needed so the ALARA Center had the Containment Fabrication Facility cover a lead material (Lead Vinyl LeadX, 0.5 mm lead equivalent protection purchased from Pacific Northwest X-Ray Inc.) that was then affixed to the toilet seat to reduce occupational radiation exposure. [www.pnw.com/Accessories/LeadProducts/Blockers-Shields/](http://www.pnw.com/Accessories/LeadProducts/Blockers-Shields/)



The ALARA Center was toured by a representative from E-Area Waste Management to review garments on display to combat heat stress. An Excel spreadsheet of garments to combat heat stress was provided.

The ALARA Center provided DWPF with a Nilfisk Compact HEPA Filtered Vacuum system to expedite work rather than waiting on systems ordered to arrive. This is an electrical powered system that is worn on the back of the user to provide maximum mobility. A demo system is on display in the ALARA Center.

The ALARA Center provided HTF with both a Bullard ISOTHERM Cool Vest and an Arctic Heat Cooling Vest to use and evaluate for potential use in heat stress environments. [www.bullard.com/downloads/pdf\\_files2/isoothermInst.pdf](http://www.bullard.com/downloads/pdf_files2/isoothermInst.pdf)  
[www.arcticheatusa.com/data.html](http://www.arcticheatusa.com/data.html)

The ALARA Center participated in the B-Area Safety & Housekeeping Day by providing a booth with a display board of gloves available at SRS. The title was "CHOOSE THE CORRECT GLOVE". The ALARA Center was contacted by F-Area Tank Farm (FTF) personnel who needed extended tools to remove various items from the 30 foot deep Pump Pit 1. Specialty designed tools from Intellegations LLC were recommended. [www.intellegationllc.com/products/intellectools.php](http://www.intellegationllc.com/products/intellectools.php)

The ALARA Center located a company at the request of FTF that sells EZ Reachers longer than four feet. EZ Supply at 877-313-7727 has EZ Reachers that are 5 ft., 6 ft., 8 ft., 10 ft., and 12 ft. [www.ezee-reachersupply.com/?OVRAW=e%20supply&OVKEY=pick%20up%20tool&OVMTTC=advanced](http://www.ezee-reachersupply.com/?OVRAW=e%20supply&OVKEY=pick%20up%20tool&OVMTTC=advanced)

ALARA Center personnel conducted a walk down of Tank Farms with operations and rad con personnel to discuss a variety of issues listed below

- .PVC containments will not be used in an outdoor environment greater than 90 days so another type structure will be needed.
- The ALARA Center recommended either a nylon bag with handles or a metal bucket for storing and transporting 1 liter radioactive liquid samples.
- Signs are needed to identify hard hat, used respirators, used laundry, and used rad waste.
- A new pole is needed to hold swipes and conduct surveys similar to the spring loaded one used for years but no longer available.

The ALARA Center ordered 10"W X 14" H signs for radiological use (yellow background with magenta writing) guaranteed for 15 years against fading, chipping, peeling or cracking for F-Area Operations outdoor posting of Underground Radioactive Material Areas. [www.gocorp.com](http://www.gocorp.com)

The ALARA Center received Panduit Co. nylon weather resist one thirty inches from the Panduit Company. The ties utilize a metal barb for improved locking. The samples were given to the Tank Farm to evaluate.

The ALARA Center (Site ALARA Coordinator) is working with Regulatory Training to revise the training lesson plans for the ALARA program.

## **NEW VENDOR INFORMATION AND VISITS**

On March 26, 2007 Florida International University (FIU) completed an extensive set of tests on fixatives for soils at Hanford, WA titled "A fixatives Analysis for Soil Stabilization Activities at Hanford". The research utilized uncontaminated soil from Hanford in wind tunnel and other tests and evaluated the four typical fixatives used at Hanford. The study showed that the DustBond fixative was clearly the best at soil suppression at wind speeds 10-30 mph. Engineering controls at Hanford stop all soil movement operations when wind speeds exceed 20 mph. Tests showed that DustBond was effective even when applied at less than half the recommended amount per acre. Using less fixative can therefore save DOE over 50% of the fixative cost. In addition, it also gives DOE EM documentation on the performance of the fixative on Hanford soils to address safety, stakeholder and liability concerns. [www.4nodust.com/dustbond.htm](http://www.4nodust.com/dustbond.htm)

Cellular Bioengineering Inc. Decon 188 had replaced by Decon Gel 1001. They also have a new product, Decon Gel 1101, that has an improved sag resistance and film toughness. Samples of both have been ordered and will be evaluated.

On 4/26/07 personnel from Frham Safety Products visited the ALARA Center and conducted a product demonstration of personal protective equipment including the OREX product line, and other products used in the nuclear market with regards to safety, performance, and worker comfort.

## **UPCOMING VENDOR VISITS**

Thermo Fisher Scientific MATRIX Physiological Monitoring System w/ViewPoint Software, May 10, 2007, 766-H, Room 1008, 9 AM – 11 AM.

Novatek Dust-Free Tools, June 20, 2007, 766-H

## **POINT OF CONTACT**

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