

SRS ALARA CENTER (AC) JUNE 2008 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at www.srs.gov/general/programs/alara/alara_center.htm

The internal SRS ALARA Center website is available in ShRINE at the ES&H Regulatory and Radiological Technologies web-site. www.srs.gov/general/programs/alara/

The FLUOR Hanford ALARA Center website is available at www.hanford.gov/rl/?page=973&parent=0

The ALARA Center provided the SRS Containment Fabrication Facility (CFF) and the Savannah River National Laboratory with information concerning the Dover Crimp and Cut system. This system is an alternative to the traditional twist-tie-tape and cut method used when bagging material in and out of a glove box or glove bag. Attached is the operator procedure. 

The ALARA Center loaned a NFS MAC-21D Filtration Unit to F-Area Laboratory for conducting air studies on a new tank prior to installation. Two latches and prefilter covers were provided for an existing unit. www.nfsrps.com/prod/95/27

Saltstone Facility Bechtel construction employees visited the ALARA Center to obtain literature and look at the Desco FX Tool and pneumatic needle gun. These scabblers will be used to decontaminate concrete walls. www.Descomfg.com

The ALARA Center provided the Burial Ground with a pad of white 18" by 36" adhesive step-off pads to locate any hot particles in the area. www.gocorp.com/product.php?ID=22

The ALARA Center provided the Defense Waste Processing Facility Industrial Hygienist with information concerning the Jaybird Aquafogger and the Port-A-Cool. Both units are used to combat heat stress by reducing area temperature. www.gocorp.com/product.php?ID=22 www.gocorp.com/product.php?ID=22

H-Area Canyon informed the ALARA Center of an issue and asked for assistance. Sealand containers are leaking contaminated moisture during movement. Condensate is the origin of the moisture. See picture below. HTF makes a berm near the door using insta-foam (Froth Pak 60 Kit SRS MSDS# 35580) and absorbent to prevent leakage. The following paper from the 2005 Waste Management Symposia was provided and offered additional options. www.wmsym.org/abstracts/pdfs/5077.pdf



DWPF ordered six Shafer Enterprises Cool Shirts each with a cooler and a 12 foot insulated hose for maintenance workers during an outage. This shirt is lightweight but requires the user to remain tethered to the hose and cooler to remain cool. www.coolshirt.net/personal-cooling-system.html

The ALARA Center is providing assistance to Liquid Waste in reviewing the possibility of sending contaminated lead blankets to NFS-RSP to be refurbished and returned to SRS. This would be an approximately 30% cost saving from buying new blankets but not including cost savings to eliminate disposition of the contaminated blankets.

Attached is a lessons learned from CH2M ALARA Coordinator in 222-S labs in Hanford, Washington concerning unexpected beta radiation shielding from Waterworks Crystals SP-400 Super absorbent. 

SRS has increased usage of the Bullard Isotherm Cool Vest to combat heat stress. SRNL Maintenance has purchased the vest and the ALARA Center loaned the demo vest to the SRNL Homeland Security organization to evaluate. SRNL Operations asked about cleaning the vest. Hand washing the vest is required so the easiest option is to use mild dishwashing detergent to hand wash them at SRS. Wachenhut Security does not require any paperwork for them to be taken off-site if workers wash them at home. However, this option would have to be approved by Facility Operations and Radiological Controls Management. Attached is product information. 

The ALARA Center ordered a replacement Nilfisk GM-80I HEPA vacuum cleaner locking kit for F-Area Laboratory. This kit holds the HEPA filter and motor assembly in place. www.nilfiskcfm.com/ProductDetail.aspx?m=1

The ALARA Center office space was relocated from 766-H second floor to the ALARA Center in room 1027.

Personnel from the Plutonium Disposition Project contacted the ALARA Center looking for a HEPA vacuum that can be used inside a glove box. The Nilfisk GM-80 on display in the ALARA Center was recommended.

Personnel from the Tritium Facility contacted the ALARA Center looking for a mercury vacuum cleaner. The Operator Instructions for the Nilfisk VT Mercury Vacuum on display in the ALARA Center was provided.

Phil Jones from the URS Corporate office and Patricia Allen (WSRC Environment, Safety & Health Manager) toured the ALARA Center on June 18, 2008.

The ALARA Center ordered the following Minuteman Mercury Vacuum Cleaner replacement parts for Liquid Waste.

Part No, Description

- 761760, charcoal filter refill
- 805057, filter bag
- 805038, paper filter protector (pkg. of 12)
- 760598, paper debris bags (pkg. of 10)
- 805037, plastic container bag
- 110010, HEPA filter

On June 23, 2008 personnel from the Savannah River Nuclear Solutions (SRNS) Radiation Protection Program Transition Team toured the ALARA Center and asked questions about the site ALARA Program.

VENDOR INFORMATION AND VISITS

On 6/10/08 John Shannon with NFS-RPS visited the ALARA Center. Personnel from 299-H Liquid Maintenance Facility and the ALARA Center attended and discussed a PermaCon building design for the truckwell. Design details are forthcoming. www.nfsrps.com/prod/4

On 6/16/08 Roberto Mandanas from Cellular Bioengineering visited the ALARA Center and discussed potential applications of their Decon 1101 decon gel. Information was forwarded to SRNL concerning potential Decon Gel 1101 evaluation opportunities with funding provided by DOE. Below are results of an evaluation performed at Lawrence Livermore National Laboratory. 

On 6/26/08 Ed Hribar from Minuteman International visited SRS and conducted a demonstration of several HEPA vacuum systems. The ALARA Center just received a Clean Room Vac (CRV) for display in the ALARA Center and will also add a Micro Vac. www.minutemanintl.com/

Nilfisk-Advance America has a new back pack HEPA vacuum that is thirty-three per cent lighter than their similar unit. The ALARA Center has issued a no cost purchase order to display one in the ALARA Center. www.nilfiskcfm.com/ProductDetail.aspx?m=136

The ALARA Center issued a no cost purchase order for a case of OREX disposable skull caps at the request of Liquid Waste personnel who will evaluate the product.

POINTS OF CONTACT

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