

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

MAY 2009 ACTIVITY REPORT

ASSISTANCE, 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 ESH&QA Regulatory and Radiological Technologies web-site. www.srs.gov/general/programs/alara/

The FLUOR Hanford ALARA Center website is available at www.hanford.gov/ri/?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. This 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/>

Personnel from Liquid Waste Engineering (LWE) visited the ALARA Center in need of extended tools to be used for tank sampling. LWE was impressed with the Peters Machine & Welding extended tools on display in the ALARA Center. www.petersmachineinc.com. Information was also provided concerning Intellegation, LLC who is another manufacturer of extended tools. www.intellegrationllc.com/

The ALARA Center has a three cloth disk smear head used at the Waste Isolation Pilot Plant (WIPP) in Carlsbad New Mexico. It is made of aluminum and swivels to perform surveys from various angles. Radiological Protection Technicians are encouraged to stop by the ALARA Center or request a facility visit to provide input concerning potential use at SRS. Below is a picture of the tool.



The ALARA Center provided D&D Radiological Protection Department (RPD) personnel with art work for ordering 10 inch wide by 14 inch high signs for posting Underground Radioactive Material Areas, Soil Contamination Areas, Inactive Contamination Areas, Inactive High Contamination Areas, Radioactive Material Areas, and Fixed Contamination Areas. D&D is interested in the material guaranteed for 15 years against fading, chipping, peeling or cracking.

Jerry Eby with Plateau Remediation Company at the Hanford Site is looking for a used Encapsulation Technology Passive Aerosol Generator (PAG). Please contact Jerry at 509-372-8961 if you can help.

F-Area Tank Farm RPD personnel contacted the ALARA Center needing a variety of step-off pads for outdoor use. G/O Corp is modifying their traditional rubber step-off pad to use an outdoor ink. Samples will be field tested to determine if it will meet tank farm needs.

The ALARA Center provided cost saving alternatives to the Defense Waste Processing Facility concerning work activities where outer launderable coveralls and rubber overshoes are being disposed after each use. Disposable coveralls and disposable lay flat rubber overshoes could be used saving approximately \$20,000 annually.

The ALARA Center provided both the Saltstone and Tritium Facilities with information concerning 0.5mm and 1.0 mm lead equivalent Bar-Ray Lead Vinyl Sheeting from Pacific Northwest X-Ray, Inc. used as shielding to reduce occupational radiation exposure. www.pnwx.com/Accessories/LeadProducts/Blockers-Shields/

The ALARA Center provided Liquid Waste with information concerning Diamond Wrap which is a carbon composite wrap for pipeline repair. The Z-01 Basin Stand pipe is cracked and in need of repair. www.cittech.com

The ALARA Center provided F-Area Tank Farm RPD with information concerning the Cuno CTG Klean filtration system that could be used to decontaminate a low level beta-gamma contaminated liquid system. www.cuno.com/products/ctg-klean.html

The ALARA Center provided Liquid Waste with information concerning Unitech Services Group modesty clothing. The launderable CoolTech micro denier shorts and short sleeve shirts would be an excellent choice to combat heat stress during summer months. Disposable modesty clothing is an option for workers who do not routinely need it or may forget to bring it from home.

The ALARA Center ordered H-Area Tank Farm RPD personnel a Minuteman MicroVac and three Unitech swing gate stanchions (part number Stanchion-05A). Below is a picture of the swing gate stanchion. www.minutemanintl.com/Critical_Filter/LITERATURE/Micro%20Vac.pdf.



The ALARA Center provided 772-F Laboratory RPD with a Kestrell 1000 anemometer. SRS Manual 5Q1.2 Procedure 496, *Radiological Containments*, states that the Kestrell 1000 is the preferred vane anemometer for site Radiological Control use and is available from the ALARA Center.

The attached DOE Occurrence Report was a management concern from Hanford Washington regarding functionality of a 3M GVP Powered Air-Purifying Respirator (PAPR). SRS uses the Bullard PAPR but this is a great lessons learned and reminder that the buddy system works and we are our brother's keeper.

On 5/14 ALARA Center personnel briefed DOE SRS RADCON Technical Support personnel on the site use of the Kimberly Clark Sterling Xtra Nitrile single use disposable glove to replace the latex KimTech Pure G5 for radiological use. The Sterling Xtra glove will also be used for non radiological work and replace four other nitrile gloves. The Synetron single use disposable latex glove is still available and usage will be monitored. On 5/18 ALARA Center personnel attended the ESH&Q Director staff meeting to brief members on the Kimberly Clark Sterling Xtra Nitrile single use disposable glove.

VENDOR INFORMATION & DEMONSTRATIONS

The ALARA Center received disposable rubber overshoe samples from Frham Safety Products, Unitech Services Group Inc, and G/O Corp for potential use at SRS.

Quest Environmental and Safety Products provided the ALARA Center with samples of Quantumwear and Comfortwear disposable coveralls for pilot testing in the Savannah River National Lab (SRNL), F-Area Tank Farm, and Defense Waste Processing Facility (DWPF). Comfortwear is a lightweight breathable garment with elastic at the wrist and ankles. Quantumwear is the same garment with attached hood and booties. In addition it has a Velcro closure strap at the neck and doffing straps to remove the garment without touching the neck area.

POINTS OF CONTACT

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