

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

MARCH 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/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. This system was developed by Florida International University – Applied Research Cent (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/>

SRS uses the Unitrek rubber overshoes. The color green is used for non-radiological work and other designated colors are used for work in radiological areas. The red (XL shoe size 12-15) is the largest size store stocked. The ALARA Center was made aware of a need for a size larger than the XL. A Unitrek blue rubber overshoe (part # SHOE-01E-BL) size 15-19 is available from Unitech Services with a fifty pair minimum order. It will not be store stocked due to low volume needs. An order of fifty was placed for use in F-Area Tank Farm. The SRS referenced procedure is Manual 5Q1.2 Procedure 231, *Selecting Protective Clothing & Equipment*.

The SRS Ventilation & Filtration committee approved both the Minuteman MicroVac HEPA and CRV ULPA vacuums for use at SRS. Both F & H Area Tank Farms ordered two MicroVacs and an X829 HEPA vac for use in the tank farms. www.minutemanintl.com/Critical_Filter/CriticalVacs.html

Personnel from the ALARA Center provided a list of decon agents for use in the Saltstone Facility process room to remove contaminated grout spewed in the area following breakage of a pump. After the grout is removed Decon Gel 1101, a peelable hydrogel coating, will be used to continue decontamination efforts. A Minuteman X829 HEPA vacuum from the ALARA Center was provided to expedite cleanup and a replacement was ordered for the ALARA Center. www.decongel.com

The ALARA Center provided the Savannah River National Lab (SRNL) with samples of 0.5 mm lead equivalent LeadX Vinyl sheeting for potential use as shielding during B-Cell Crane work. Five gallons of ETGS Invisible Blue (site MSDS# 34146-1) was provided to apply using a garden sprayer to control alpha contamination. Waste Management Area Projects also got LeadX samples for lining storage room doors to reduce worker occupational radiation exposure. www.pnwx.com/Accessories/LeadProducts/Blockers-Shields/

The ALARA Center provided F-Area Tank Farm with eight 1 foot by 3 foot pieces of 1.0 mm lead equivalent LeadX. This shielding will be used to shield radioactive samples prior to shipment to SRNL. An order was placed with Pacific Northwest X-Ray Inc. to replace materials used.

The ALARA Center provided SRNL with information concerning the Tiger-Vac MV-1CR (CU) Hand Held Modified ULPA Vacuum. This is an extremely small volume collection vacuum used in HB-Line where criticality was an issue. www.tiger-vac.com/documents/brochures/MV-1_AM_En.pdf

The ALARA Center located portable area posting kits on-site that Site Regulatory Training could borrow to conduct radiological worker training of Nuclear Facility Defense Board members in Washington, DC. www.gocorp.com/product.php?ID=140

The ALARA Center provided assistance to The Closure Group in determining Nilfisk-Advance America HEPA vacuum accessories needed for upcoming project work.

The ALARA Center provided The Closure Group with information concerning the G/O Corp signs guaranteed for 15 years against fading, chipping, peeling or cracking. They come in a variety of sizes and the purchaser designs the words and symbols. Attached is a sample of a sign previously purchased by SRS.

www.gocorp.com/product.php?ID=117

Procedure change requests were submitted for the following SRS procedures;

- 5Q1.2-496 *Radiological Containments* – clarify that QHRG5000 training is for glove bag training
- 5Q1.2-231 *Selecting Protective Clothing & Equipment* – add Unitrek 2XL (size 15-19) rubber overshoes
- 5Q1.1-507 *Departure From Administrative Control Limits* – revise attachment 1 Sample of Request to Exceed Administrative Control Level
- 5Q1.1-505 *ALARA Review Procedure* – standard revision

A set of instructions are being created for completing the pre, in progress, and post job ALARA reviews that will be included in the ALARA Database and on ShRINE with the OSR forms.

The Radiological Protection Department Automated Hazard Analysis (AHA) team has completed their input concerning the radiological and ALARA portion of an upcoming revision of the AHA database.

Waste Management Area Project and the Closure Group personnel pilot tested the Quantumwear disposable coverall. Comments were positive but further evaluation will be performed when the temperature increases in April. Attached are donning and doffing instructions provided by the manufacturer. 

The ALARA Center was recently asked where to get the traditional laundry bag racks used at SRS. They are Stores caption item number 21-106. See picture below. Please contact the ALARA Center if you have any extra CRM stands (pictured below on the right) or know who made them.



VENDOR INFORMATION & DEMONSTRATIONS

On 3/16/09 Dave Welcher with Unitech Services visited the ALARA Center to review his company products on display in the ALARA Center.

On 3/26/09 thirty students and Wade Miller, the adjunct instructor from the "Introduction to Radiation Protection" course, visited SRS and toured the following facilities; Internal Dosimetry, External Dosimetry, Instrument Calibration, ALARA Center, and Radiological Training/Mock-up. There was also a question and answer session with representatives from management and a Radiation Protection Inspector (RPI).

On 3/17,18/09 the ALARA Center staff attended the 2009 DOE Regional Nuclear Suppliers Outreach Event held at the Marriott Hotel in Augusta, GA. There were approximately eight hundred people in attendance and sixty vendor booths.

On 3/31/09 John Shannon with NFS-RPS visited the ALARA Center to discuss and answer questions concerning ventilation, containments, and shielding as radiological engineering controls. www.nfsrps.com

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