

SRS ALARA CENTER (AC) DECEMBER 2006 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 “New” PPE Database describes personal protective and safety equipment available at SRS on the ALARA Program website available in ShRINE by performing a quick search on ALARA or ALARA Program.

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

The ALARA Center provided the Defense Waste Processing Facility with information concerning the ICM Climbing Machine (see picture below) that can be used to remotely decontamination the top of the cell covers. The machine was demonstrated in the SRS ALARA Center on 11/30/05 and a video of the demo is available in the Center library. www.icmachines.com



HB-Line ALARA Coordinator requested assistance in choosing a paint to coat a small area of a stainless steel glove box. The Sherwin Williams Company made two recommendations.

- DTM Bonding or DTM as a primer and DTM paint
- If chemical resistance is needed then Tile Clad High Solids epoxy paint (no primer is needed).

The ALARA Center provided the H-Canyon Facility Support organization with a Nilfisk GM-80 HEPA vacuum system with variable speed control during a job mock-up to ensure it would work. It did work and a system was provided.

The ALARA Center provided several Radcon facilities with multiple disk smear tools that can be attached to a pole. Due to high demand additional materials have been ordered to assemble more tools.

The ALARA Center provided the Defense Waste Processing Facility and H-Area Tank Farm with multiple Kestrel 1000 Pocket Wind Meters used for determining ventilation airflow.

The SRS HP Calibration Facility performing testing on the Proguard Radiation Reducing Sleeve for potential use in shielding worker extremity beta exposure to the forearm in applications where a tungsten surgeon glove will be used. The sleeve reduced exposure to Sr/Y-90 by approximately 50%. www.pnwx.com/Accessories/LeadProducts/Gloves/Proguard/

The ALARA Center received a Tiger-Vac Model MV-1CR without Back Pack HEPA vacuum for a site application where criticality is an issue. The collection capacity of this vacuum is only 0.5 gallons. This

will be the first time this vacuum has been used on-site. The Site Ventilation Committee approved use of this vacuum. www.tiger-vac.com/Products/CleanRoom/MV-1/MV-1%20main.html

The ALARA Center continued to provide support to F-Canyon TRU reprocessing work. Multiple Nilfisk GM-80 HEPA vacuum systems and associated accessories are being used to clean HEPA filter metal screens to increase glove box differential pressure so work can continue.

On 12/18/06 the SITE ALARA Committee met to discuss the 2007 Radiation Exposure Goals and Site Administrative Control Level (ACL). The 2007 Total Cumulative Exposure Goal is 107 rem. The ACL will change from 600 mrem to 500 mrem.

The Site ALARA Coordinator met with H/F Tank Farm ALARA Coordinators to get input for an upcoming revision of the pre & post ALARA Review Check lists.

NEW VENDOR INFORMATION AND VISITS

H-Canyon personnel requested the ALARA Center find a 2% nitric acid resistant bag. Three bags of different material were received from Unitech Services and are being evaluated for potential use.

The ALARA Center contacted Teresa Wegner with International Biomedical and requested that they manufacture the radiation attenuating glove in sizes larger than 9 and extend the length to the elbow. The company has had other similar request and will consider offering these new products.

The ALARA Center received a Hexarmor Hercules NSR (part no. 3041) to evaluate for potential use in TRU Reprocessing work. This glove material will provide hand protection but will not allow worker dexterity. www.hexarmor.com

On 12/12/06 fourteen people from SRS visited the Savannah River Research Campus to see a Comtronics Industrial Communications Inc. and American Link International demonstration of Accuview, a wireless portable modular surveillance system that both records and transmits audio and video data from any location, in real time utilizing

On 12/13/06 Comtronics Industrial Communications conducted a product demonstration of the DX100/200 wireless headset intercom systems. These systems are an upgrade from the Telex System and are currently being used in most TRU Reprocessing Facilities. Also discussed was the new wireless communication system for the P-Reactor D&D project. This system, already staged to be installed, is possibly the first wireless VoIP (Voice over Internet Protocol) system at SRS. It features cell phone-like phones that will intercommunication with other like phones and wired phones within the facility to provide emergency and work group communications. Throat mics connected to the phones are to be used for radiological work. www.cobaltav.com www.wirelessworker.com

UPCOMING VENDOR DEMONSTRATIONS AND VISITS

Intellegation LLC, tool and equipment design demo, January 18, 2007
Inventure Laboratories, SafeVac Criticality Safe Vacuum System

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