

SRS ALARA CENTER (AC) FEBRUARY 2008 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at <http://irmsrv35.srs.gov/general/programs/alara/>
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

Heat stress months are quickly approaching so it is time to think about precautions to prevent heat stress. Below is a document of heat stress PPE on display in the ALARA Center. A new Cool Shirt will be added in March. SRS Industrial Safety has valuable information available on their Thermal Stress web page. In ShRINE select;

- Safety
- Industrial Hygiene
- Hazards
- Thermal Stress

The ALARA Center provided F-Area Tank Farm with a Nilfisk GM-80 HEPA filtered vacuum system (rated at 87 cfm) with a variable speed controller to control the air flow.
www.nilfiskcfm.com/ProductDetail.aspx?m=100

The ALARA Center provided the Saltstone Facility with a NFS Model SP 1000 LV (FM 48) Portable HEPA filtered Filtration Unit. Below are a picture and the information and instructions manual.



The ALARA Center continues to provide information concerning International Biomedical Radiation Reducing gloves to SRS and other DOE complexes. SRS Tank Farms, and SRNL procured gloves during February. The radiation reducing glove contains tungsten, a non hazardous material, and is manufactured by International Biomedical www.int-bio.com/gloves.php. The tungsten adheres to the neoprene by dipping the gloves into a dip tank that contains the material. The tungsten is dispersed and held in a suspension during the dipping evolution in the mold. The dip tank was designed to ensure the tungsten does not "fall out" after mixing and is continuously being stirred to prevent fall out. The tungsten is encapsulated by the neoprene in the mix.

The ALARA Center provided Spent Fuels Rad Engineering with information concerning self extinguishing borated polyethylene neutron shielding material.
www.thermo.com/eThermo/CMA/PDFs/Various/File_26483.pdf

The ALARA Center provided the Tank Farms with Closure Instructions and inner plugs for the 5 gallon carboy container (caption item number 32-21894.00) used at SRS as a collection device for contaminated liquids. The replacement cap has also been set up in Stores (32-21898.00).

The ALARA Center recommended to ETF that they use Decon Gel 1101 to coat a section of concrete flooring around a drain prior to work. The floor is radiologically clean but has the potential to become contaminated during a job. Since Decon Gel 1101 is peelable it can be removed after work preventing the floor from becoming contaminated.

H-Area B-Line personnel contacted the ALARA Center looking for a glove to wear over a dry glove box glove that provided resistance to cut and puncture yet maintained a level of dexterity. Several gloves were recommended and they chose the Hex Armor 3181 Super Fabric glove that extends up to the elbow.

The ALARA Center ordered transducers and cables for the Encapsulation Technology Passive Aerosol Generator owned by the ALARA Center and used at the Tank Farms.

The ALARA Center provided F-Area Tank Farm with information concerning non hazardous (0.25 inch lead equivalent) shield blankets which typically consist of a tungsten poly material. The cost is about \$500 per square foot compared to about \$50 per square foot for traditional lead wool blankets. However, disposal of lead as a mixed hazardous waste is extremely expensive. Another option promoted by the ALARA Center is to purchase an additional herculite jacket with the lead blanket that can be removed if contaminated.

VENDOR INFORMATION AND VISITS

Ty Finley with G/O Corp was in the ALARA Center on 2/14. G/O Corp is a supplier of various products (such as signs, tags, tapes, 5 gallon poly bottle, and boundaries) used in commercial and DOE nuclear facilities for radiological work. www.gocorp.com

On 2/19 the ALARA Center sponsored an absorbent polymer presentation at the Savannah River Research Campus by Martin Matushek with M² Polymer Technologies Inc. They offer Waste Lock® and a variety of other absorbent products. The presentation was well attended and informative.

CSA Inc. utilizes laser scanning technology to provide development and implementation of Lifecycle Facility Management Systems based on configuration model of a facility. CSA's PanoMap software is an effective tool for fast and easy review of the scanned space. Inside a panoramic environment, it provides the ability to determine 3D locations, calculate measurements, and place dimensions. Dimensions and annotations are stored within a database associated with scans, and can be viewed from any scan that contains the dimensioned points. www.csaatl.com

The Waste Management 2008 Conference was in Phoenix, AZ, February 23-28. The theme was "Phoenix Rising" to commemorate the first Waste Management Conference in Phoenix. There is a Multi Year Program Plan. It is a roadmap for D&D technology needs. It is a living document and will change as necessary. The plan will be posted on the DOE EM web site.

POINT OF CONTACT

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