SRS ALARA CENTER (AC)

Engineered solutions for Radiological, Safety & Industrial Hygiene applications.

OCTOBER 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 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 ALARA Center expanded scope to include Safety and Industrial Hygiene is moving in a positive direction. SRNS management has provided an additional 570 square feet of space that will be available in December 2008. The ALARA Center and Glyn Luke with the Safety Department supported a site initiative to educate the work force on gloves available to site employees to prevent hand and finger injuries. A road show was developed and taken to twelve locations across the site. The road show included display boards of all store stocked gloves, several gloves not store stocked, glove typical uses and limitations, literature, and a glove testing video. Below is a picture of the glove displays. They will be on display in the ALARA Center following the road show campaign.

The ALARA Center was contacted by a Radiation Protection Inspector (RPI) in DWPF needing replacement wheels for Rubbermaid carts (Part No. 4091) used for storing and transporting supplies and survey instruments to job sites. The wheels (part No. 3424-L6) were ordered from Grainger.

The ALARA Center was contacted by F-Area Tank Farm who needed to locate and expedite the purchase of twenty-four 1 foot by 3 foot fifteen pounds per square foot lead blankets. The blankets were located at NFS- Radiation Protection Services (Part No. LWB1315).

The Aiken Technical College in Aiken, South Carolina recently started a "Radiation Protection Technology Program" to provide radiation protection inspectors to the nuclear industry. On 10/24/08 twenty-six 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).

A design engineer visited the ALARA Center to look at Nuclear Filter Technology filters. He worked on a project to provide hydrogen ventilation in the event of primary ventilation failure on the high activity drain tank but had not seen the filters.

The ALARA Center has a G/O Corp Rope Reel (Part No. GZ1104-N) on display. An IDEA was reviewed and approved to make the reel available to Radiation Protection personnel for use when installing or removing yellow and magenta rope used at radiological barricades. A picture is below.

The ALARA Center received two 8 inch by 8 inch 0.25 inches thick samples of Ecomass compound 1002ZD96 in a herculite jacket. This compound is 91% equivalent to lead of the same thickness. www.ecomass.com

The F-Area Tank Farm contacted the ALARA Center in need of portable posting stanchions for emergency use. The ALARA Center recommended the G/O Corp Portable Posting Kit - 36:H x 23" diameter "X" frame base and magenta and yellow 13 foot belt (kit includes four postings with carrying bag, part number GZ1952-N). A sign holder that fits on top of the stanchion is available (part number GZ2014-N). F-Area Tank Farm ordered two kits and two sign holders after looking at the display in the ALARA Center. www.gocorp.com/product.php?ID=140

The ALARA Center provided the H-Area Tank Farms Rad Engineer with specific information concerning a shielded blanket made of Ecomass compound 1002ZD96. The blanket is to be 2 feet wide by 8 feet long and 0.25 inches thick. The blanket would actually be made of 8 inch wide strips 8 feet long and 0.125 inches thick that are glued together to achieve a width of 2 feet. Two of these blankets would be glued together to achieve the desired 0.25 inch thickness. The blankets would then be placed in a herculite jacket with grommets. The approximate cost of a blanket is $8,800.

UPCOMING VENDOR VISITS

NFS-Radiation Protection Services will be teaching an “Application of Portable Ventilation” Seminar at SRS Building 766-H Room 1002 from 8:30 AM until 11:30 AM on Wednesday November 5, 2008. Contact Robbie Bates to register. Topics to be discussed include:

- Flow balancing - how to handle multiple duct runs
- System losses - what are they and how do we estimate them?
- Fan curves and fan selection - selecting the proper size fan, and judging fan performance from fan curves
- System curves - what are they and what do we do with them
- Flow and pressure measurements - common methods to determine flow and pressure within a ventilation system
- Capture velocity - what is it and why do we care?
- Hood design - how to better apply capture velocity through proper hood design.

Roberto Mandanas from Cellular Bioengineering Inc. (CBI) will be at SRS Building 766-H Room 1002 at 9:00 AM and 10:00 AM and will present PowerPoint slides of the latest radiological survey results using Decon Gel 1101, a one part component water based, broad application, peelable decontamination hydrogel that lifts, binds, and encapsulates contamination into a rehydratable polymer matrix. The site MSDS's for this chemical is 38502-1.

POINTS OF CONTACT

Robbie Bates (803) 208-3601, Pager (803) 725-7243 ID #14550 robbie.bates@srs.gov
Ellen Parrish (803) 952-6557, Pager (803) 725-7243 ID #11617 ellen.parrish@srs.gov