

## SRS ALARA CENTER (AC)

*Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.*

### DECEMBER 2008 ACTIVITY REPORT

#### **ASSISTANCE, RESEARCH, AND TOURS**

The external SRS ALARA Center website is posted at [www.srs.gov/general/programs/alara/alara\\_center.htm](http://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/](http://www.srs.gov/general/programs/alara/)

The FLUOR Hanford ALARA Center website is available at [www.hanford.gov/rl/?page=973&parent=0](http://www.hanford.gov/rl/?page=973&parent=0)

DOE has published the annual DOE Occupational Radiation Exposure Report for 2007. <http://www.hss.energy.gov/CSA/Analysis/rem/annual.htm>. The assessment of occupational radiation exposure for 2007 continues to show a declining trend in collective dose and the number of individuals with measurable dose, while the average measurable dose increased for the second year in a row. Primary factors in the decrease in collective dose for 2007 were a reduction in activities involving radiation at DOE sites, and the closure of several sites that are no longer in operation (Fernald, Mound, and Ashtabula). The increase in the average measurable dose was due to a decrease in the number of individuals with measurable dose (particularly measurable doses below 0.1 rem) and the one individual who received a dose above 5 rem (50 mSv). With the exception of one incident, in 2007, all DOE operations complied with DOE Part 835 dose limits and the DOE-wide dose constraints. Only a small fraction of the DOE workforce received measurable doses and the average measurable dose was less than 2% of the DOE limit.

The SRS Site ALARA Committee met on 12/16/08 to set the 2009 SRS Radiation Exposure Goals. The site goal is 126 rem and the administrative control limit for an individual radiological worker remains the same as 2008 (500 mrem).

Two members of the DOE Radiological Assistance Program (RAP) Region 3 toured the ALARA Center. The following G/O Corp items seen on display were ordered for RAP. [www.gocorp.com](http://www.gocorp.com)

- One Portable Posting Kit, part number GZ1952-N - 36"H x 23" dia. "X" frame base, Magenta and yellow belts, (kit includes four postings with carrying bag).
- One sign holder that fits on top of the stanchion, part number GZ2014-N
- four clamp mounts for radiological entry point, part number GZ2065-N
- One rope reel, part number GZ1104-N

The ALARA Center was contacted by the Defense Waste Processing Facility (DWPF) needing information to reorder a disposable bootie used per their radiation worker permit when wearing coveralls in a High Contamination Area (HCA) to provide additional worker protection. It was determined that they are using a 0.006 mil thick, 15"L by 17" high polyethylene waterproof disposable bootie (part# FS1415Y) from Frham Safety Products. The ALARA Center recommended they order part# FS1717Y which is the same material but 17"L by 17"high. The extra two inches in length will be it easier to don and doff. Below is a picture of part# FS1415Y.



The ALARA Center was toured by Sandra Waisley, DOE-HQ Director of Standards and Quality Assurance (EM-64) which is part of the Office of Safety Management & Operations (EM-60) and also William Huxford and Jim Davis from EM-64. In addition, EM-64 staff discussed the upcoming DOE/NNSA Regional Nuclear Suppliers Outreach Event scheduled for March 17 -18, 2009, in Aiken, South Carolina.

The ALARA Center and Health & Safety Dept. conducted a Glove Road Show in the 105-P Spent Fuel Facility on December 2, 2008 from 7:30 AM until 9:30 AM. The show was well attended.

The ALARA Center and the Safety & Health Dept. are leading an SRS Integrated Project Team to evaluate and recommend a path forward concerning the site-wide use of the disposable Kimberly Clark Sterling X-Tra Nitrile single use glove. It could potentially replace the four disposable nitrile gloves and the two disposable latex gloves currently used at SRS. In January 2009 five SRS facilities will be pilot testing the Sterling nitrile glove.

The ALARA Center ordered F-Area Tank Farm two eight inch diameter spark arresting end fittings(Part #CR44) and two ten inch diameter spark arresting end fitting (Part#CR46). [www.nfsrps.com](http://www.nfsrps.com)

The ALARA Center provided three Kestrell 1000 Wind Meters to the Radiation Protection Department in Waste Area Management Projects in E-Area.

The ALARA Center attended an In-Situ Decommissioning Technology Workshop sponsored by The DOE Office of Deactivation and Decommissioning/Facility Engineering (EM-23) and hosted by Savannah River National Laboratory (SRNL) in Aiken, South Carolina. Topics included fill materials, modeling, and facility characterization.

The 2009 Hanford ALARA Workshop has been scheduled for August 4 and 5, 2009 in Richland, Washington and is sponsored by Washington River Protection Solutions, LCC. The deadline for presenter abstracts is March 1, 2009. The information that will be presented will enhance your ALARA program while applying lessons learned. A flyer is attached.



## **VENDOR INFORMATION & DEMONSTRATIONS**

Eastern Technology Inc. has manufactured a new Orex Ultra disposable coverall. They are white with elastic at ankles and wrist and a radiation trefoil and the word "ANTI-C" on the right breast area. The ALARA Center has samples in sizes L, XL, and 2XL. [www.orex.com/pdf/2009%20Catalog/OREX%20Ultra%20\(MVTR\).pdf](http://www.orex.com/pdf/2009%20Catalog/OREX%20Ultra%20(MVTR).pdf)

International Climbing Machines (**ICM**) has updated the CASE HISTORIES section of its website and added some video footage. The latest addition to the Case History video library are 3 short videos showing the **ICM** climbing machine remotely spray applying mastic paint to ceiling and walls of a "HOT CELL". Many people have expressed interest in utilizing the **ICM** climbers for REMOTE installation of paints, mastics or caulking compounds. These videos show the **ICM** climber driving along the floor, then transitioning to the walls and climbing around the walls applying mastic paint to both the ceiling and walls... ALL REMOTELY. The floor was also painted. [www.icm.cc](http://www.icm.cc)

Quest Safety & Environmental Products will be at SRS, building 766-H Room 1002, January 7, 2009 between 9 AM and 2 PM to conduct a product demonstration of their new Q-Gard Quantumwear disposable coverall designed for radiological work in a heat stress environment and supplies to support D&D operations and abatement work. [www.questsafty.com/](http://www.questsafty.com/)

## **POINTS OF CONTACT**

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