

## **SRS ALARA CENTER (AC) SEPTEMBER 2007 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/](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)

The ALARA Center was contacted by F-Area Closure personnel looking for a fixative to apply on deactivated pipe flanges. Diamond Wrap was recommended. [www.cittech.com](http://www.cittech.com)

The Savannah River National Laboratory ALARA Coordinator contacted the ALARA Center needing a fixative to apply prior to work in a cell floor area that contained contamination dirt. Bartlett PBS or Encapsulation Technology Glycerin Solution (ETGS) was recommended.

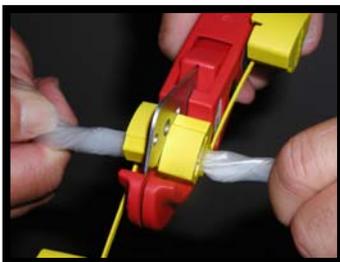
D&D contacted the ALARA Center looking for an outdoor modular building that can be easily disassembled for use in another area. The NFS-RPS Perma-con 12'W X 12'L X 8'H building with a sloped metal roof was recommended. The building utilizes a modular panel system with quarter turn kelly locking keys for easy disassembly. [www.nfsrps.com](http://www.nfsrps.com)

The ALARA Center provided the Savannah River National Lab radiological control organization with a Kestrell anemometer (wind meter) for verifying containment flow rates. [www.kestrelmeters.com/Kestrel-1000-Wind-Meter.pro?sNav=0](http://www.kestrelmeters.com/Kestrel-1000-Wind-Meter.pro?sNav=0)

Nuclear Materials Management contacted the ALARA Center looking for a radiological barrier chain for outdoor use. The ALARA Center recommended the rad barrier chain, #2 double loop, yellow and magenta, 500 ft. per bucket. It has a patented process, the "EVERLAST" 2-mil ply powder coating that is baked to create a durable and long lasting finish. Part #GZ1380 is from G/O Corporation. [www.gocorp.com](http://www.gocorp.com)

The ALARA Center ordered a 20 inch wide by 6 foot long pebble finish step-off pad (SOP) with the words "RADIATION AREA" and a rubber mat backing. The background is yellow and the words are magenta. The SOP will be used by Solid Waste for outside use at an entry/exit point for fork lifts.

The ALARA Center provided the Waste Management Area Projects radiological engineer with information on the Dover Crimping System. This system utilizes proprietary polyethylene sleeving and plastic clamps for bag out operations. This system is currently being used in the pharmaceutical industry. Contact the ALARA Center to see a demonstration. [www.ilcdover.com/products/pharm\\_biopharm/operations/doverpac.htm](http://www.ilcdover.com/products/pharm_biopharm/operations/doverpac.htm)



The ALARA Center completed its chemical inventory report and submitted it to the Site Chemical Coordinator per site requirement.

The DOE Office of Analysis (HS-32), within the Office of Corporate Safety Analysis has published the annual *DOE Occupational Radiation Exposure Report, 2006*. The report is now available at [www.hss.energy.gov/CSA/Analysis/rem/annual.htm](http://www.hss.energy.gov/CSA/Analysis/rem/annual.htm)

The 2006 DOE Occupational Radiation Exposure Report provides a summary and analysis of the occupational radiation exposure received by individuals associated with DOE activities. This report is intended to be a valuable tool for managing radiological safety programs, epidemiologists, researchers, and national and international agencies involved in developing policies to protect individuals from harmful effects of radiation. Hard Copies of the 2006 DOE Occupational Radiation Exposure Report were distributed in September 2007. If you did not receive and would like to get a hard copy of the report you may contact Nimi Rao at [nimi.rao@hq.doe.gov](mailto:nimi.rao@hq.doe.gov).

## **VENDOR INFORMATION AND VISITS**

Technical representatives from DMS Ltd will be at the Savannah River Research Campus, Room 116 Oct. 8, 2007 from 9 AM - 4 PM and Oct. 9, 2007 from 9 AM - 12 PM to demonstrate operation and answer questions concerning their Mobile RF Welder.

Due to logistic issues the Deactivation and Decommissioning (D&D) Best Practices and Lessons Learned (BP/LL) Training Workshop, scheduled for October 17, 2007 at the Savannah River Site (SRS) has been cancelled and will be rescheduled at a later date.

Larry Wibbeler with HexArmor Personal Protective Armor visited the ALARA Center on September 25, 2007 to discuss their line of gloves. Personnel are encouraged to stop by the ALARA Center to see a variety of gloves available from HexArmor®. Every HexArmor® product is made with SuperFabric® brand material. SuperFabric® brand material was invented by HDM, Inc. to be highly cut, puncture, and abrasion resistant. The “super” qualities of the fabric include significantly higher cut, puncture, and abrasion resistance than most products on the market, including KEVLAR®. It offers all this and is 100% washable, without compromising product integrity or dexterity. It was determined in the ALARA Center that three layers of SuperFabric® was needed to prevent puncture by a hypodermic needle. Two layers would probably be adequate for SRS puncture protection.

Pictured below (left) is Larry demonstrating cut protection of a HexArmor® glove to Ellen Parrish. Pictured below (right) is a new glove that utilizes the SuperFabric® material with leather in the palm area and thumb. [www.hexarmor.com](http://www.hexarmor.com)



On September 19, 2007 the ALARA Center met with Joe Faldowski from NuVision Engineering to discuss technologies suitable for nuclear applications. March 2007 NuVision Engineering released a report for DOE titled, ORNL Remote Operations for D&D Activities, Final Report. It is an assessment of several facilities slated for D&D at the Oak Ridge National Laboratory (ORNL) with a view toward understanding what likely D&D operations will require remotely operated technologies to complete. These facilities include hot cells, process, and reactor facilities that have become substantially contaminated and, hence, represent challenges for future D&D. Contact Joe Faldowski at [faldowski@nuvisioneng.com](mailto:faldowski@nuvisioneng.com) to get a copy of the report.

Carson Anderson is now the Eastern Region District Manager for Nilfisk advance HEPA Vacuum Systems. Carson can be reached at 336-340-4279.

CH2M Hill Hanford Group Inc. is hosting an ALARA Workshop March 5 & 6, 2007 in Richland, WA. Attached is the information flyer and registration form. 

## **POINT OF CONTACT**

Robbie Bates (803) 208-3601, Pager (803) 725-7243 ID #14550 [robbie.bates@srs.gov](mailto:robbie.bates@srs.gov)  
Ellen Parrish (803) 208-3603, Pager (803) 725-7243 ID #11617 [ellen.parrish@srs.gov](mailto:ellen.parrish@srs.gov)