

## SRS ALARA CENTER (AC)

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

### SEPTEMBER 2009 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 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 D&D Knowledge Management Information Tool (D&D KM-IT) is a web-based knowledge management information tool custom built for the D&D community. This system was developed by Florida International University – Applied Research Center (FIU-ARC) in collaboration with the Department of Energy (DOE EM20), EFCOG, and the ALARA Centers at Hanford and Savannah River. <http://dndkm.arc.fiu.edu/dndkm/>

The IDEAS focus for the month of October is “Quest for Radiological Excellence - ALARA in the Area of Radiation and Contamination Control Improvements”. Monetary awards will be given for the top three ideas. 1<sup>st</sup> prize - \$500, 2<sup>nd</sup> prize - \$300, and 3<sup>rd</sup> prize - \$200.

The new step-off pads (SOP's) for indoor and outdoor applications were received for the Saltstone Facility and the F-Area Tank Farms. They are made of 20" X 30" 140 mil non-skid rubber nitrile. The color design is yellow background with magenta print using UV resistant ink suitable for outdoor environment, and two stop signs. The yellow ink was not completely dry so the manufacturer will correct the problem and replace them. [www.gocorp.com](http://www.gocorp.com)

The ALARA Center submitted a site order for three hundred spring loaded mop handles. This is a specialty tool used by Radiological Protection personnel to hold atomic swipes when conducting large area surveys in High Contamination Areas. The tool is also useful for attaching to a portable survey instrument probe when conducting direct probe surveys. Below is a picture.



The ALARA Center ordered a replacement Minuteman Microvac to replace the unit taken by Construction to control silica dust when drilling holes. The unit was needed to support an Industrial Hygiene initiative to eliminate the need for respiratory protection and air sampling during drilling.

The ALARA Center provided a Kestrel 1000 Wind Meter to the Radiological Protection Department in C-Lab to be used to determine air velocities in accordance with WSRC Manual 5Q1.2 Procedure 496, *Radiological Containments*.

The ALARA Center provided H-Area Radiological Protection Department Radiological Engineers with information and contacts concerning Flanders HEPA filters and SRS Ventilation and Filtration committee members. HEPA filters capable of handling approximately 4000 CFM of air are needed to filter make-up air inside a radiological containment surrounding an exhaust duct.

The ALARA Center is participating in an Integrated Project Team to recommend a replacement for the Draeger Panorama Nova Silicone P full face respirator that is no longer available. The following respirators have been received and are being reviewed.

- 3M 6000 Series

- Drager 5500 Series and 6500 Series
- MSA Ultra Elite
- North 76008A
- Sperian Survivair Opti-Fit S-Series

The ALARA Center provided HB-Line Facility Support personnel with a cost effective solution (96 inch long EZ Reacher Pro) for reaching approximately eight feet into a process enclosure to remove items near the sump area.

[http://ezee-reachersupply.com/zencart/index.php?main\\_page=product\\_info&cPath=5&products\\_id=52&zenid=cfaf30d4ca4041a4b0f5f2416e567f98](http://ezee-reachersupply.com/zencart/index.php?main_page=product_info&cPath=5&products_id=52&zenid=cfaf30d4ca4041a4b0f5f2416e567f98)

The Sage Action Model 5 Bubble Generator on display in the ALARA Center was loaned to RPD Rad Engineering. Once they become familiar with the system it will be used in SRNL to conduct an air migration study in laboratories. <http://www.sageaction.com/MD5.htm>

Thirty recently hired engineers toured the ALARA Center as part of their initial required training. This is an excellent opportunity to promote ALARA concepts and the ALARA Center.

The SRS Safety & Health Expo was held at the Aiken Convocation Center in Aiken, SC on September 22 & 23, 2009. There were approximately eighty vendors and exhibits present to share health and safety information with SRS employees and the public. Company representatives were present from Quest Environmental Safety Products Inc, Chesapeake Nuclear Services Inc, and MSC Industrial Supply.

The Site ALARA Committee Change Control Board met on 9/3/09 to review reduction and extension requests to the facility exposure goals of WSI, HBL, and K-Area. The board approved an overall increase of 11 rem to the site annual exposure goal. The new annual Site ALARA exposure goal is 137 rem.

Personnel from the ALARA Center are participating in the following self assessments;

- H-Canyon & HBL donning and doffing process, signs, and work package instructions
- Site-wide Respiratory Protection Program to be completed by 12/31/09

Personnel from the ALARA Center and RPD management conducted a walkdown of K-Area's IAEA Surveillance and did not recommend any additional ALARA methods to reduce radiation exposure to the workers. Additional scope of work had been added to the program which will increase worker exposure. A K-Area cross functional team had effectively employed ALARA reduction techniques during the planning phase.

## **AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT**

The ALARA Center ordered two Nilfisk GM-80 HEPA vacuum systems and accessories for F-Area TRU Remediation work. They will be used to remove debris from the glovebox exhaust screen. <http://www.nilfiskcfm.com/ProductDetail.aspx?m=1>

The ALARA Center provided E-Area with a Nilfisk VT-60 HEPA vacuums system for wet and dry applications. It will be used to remove contaminated liquid from containers identified for ARRA remediation. A replacement system was ordered to replace the system taken from the ALARA Center. <http://www.nilfiskcfm.com/ProductDetail.aspx?m=88>

## **UPCOMING VENDOR DEMONSTRATIONS**

NFS, 10/13/09, 766-H ALARA Center Room 1027, anytime 9 AM – 12 PM  
 Frham Safety Products and Eastern Technologies, 10/15/09, 766-H Room 1021, anytime 10 AM – 1 PM  
 Bluegrass Concrete Cutters, 10/21/2009, 766-H ALARA Center Room 1027, anytime 9 AM – 12 PM

## **POINTS OF CONTACT**

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