

**SRS ALARA CENTER (AC)**  
*Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.*

## DECEMBER 2010 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 InSite 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. The 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/>

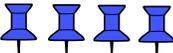
The 2011 Savannah River Site (SRS) Radiation Exposure Goal was set at 172 rem by members of the Savannah River Nuclear Solutions Management & Operating (SRNSM&O) Change Control Board and the Savannah River Remediation (SRR) Executive Safety and Quality Board (ESQB). The Administrative Control Limit (ACL) of 500 mrem for an individual radiological worker remains the same as 2010.

The ALARA Center provided Saltstone Facility Radiological Protection Department (RPD) management with information to obtain Bartlett TLC Free Strippable Coating. The SRS Stores caption item number for a five gallon bucket is 32-15288.00. The Saltstone Facility will use it to remove beta-gamma contamination from the stainless steel troughs in Vault 4.

The ALARA Center provided Solid Waste Management (SWM) with the following HEPA filtered vacuum system to remove small debris inside a Manipulator glove bag.

Quantity	Part No.	Description
1	01790632	GM80I. GMPJ 115V HEPA Micro. Includes: Heavy duty fixed trolley, 32 mm neoprene hose, curved steel tube, (2) straight steel wands, dust brush, crevice nozzle, and wheel floor nozzle
1	M90029	Variable Speed Controller
2	01745900	Gray Hose Cuff 32 mm
5	81813200	Gray Plastic Hose 32 mm

The Eletech EP800 Series SelfTalker is no longer available from the manufacturer. This SelfTalker allows for a message to be recorded and play when an internal motion detector is activated. It has been used at facility entrances to remind workers that cell phones are not allowed. The Eletech IR1000A is still available. It is similar to the EP800 Series but you have to send a sound file to have the manufacturer record the message on chip. [http://eletech.com/Products/SelfTalker\\_Displays/IR/IR1000A.pdf](http://eletech.com/Products/SelfTalker_Displays/IR/IR1000A.pdf)

The ALARA Center now has samples on display of the Firefighter Bunker Gear Step-Off Pads. Each are 140 mil rubber nitrile, 20" X 30", non-skid surface on both sides, white background. Instructions are specific for Clean Area, Cold Zone, Warm Zone, and Hot Zone. See below. 

The ALARA Center provided SWM RPD personnel from the Burial Ground with three Kestrel 1000 anemometers. SRS Manual 5Q1.2 Procedure 496, *Radiological Containments*, states that the Kestrel 1000 is the preferred vane anemometer for site Radiological Control use and is available from the ALARA Center. The Kestrel 1000 calibration is good for two years from the date it is placed into service. Due to the low cost they are discarded after two years rather than maintaining a program to recalibrate. The ALARA Center labels each Kestrel 1000 with a calibration expiration sticker at the time of issuance. The ALARA Center provided SRR RPD personnel on H-Area Tank Farm with procurement information to obtain a G/O Corp Magnet Mount Doorway Swing Gates with retractable arm (part number GZ1917).

The ALARA Center is supporting SRR and SRNS Radiological Engineering with an upcoming revision to the SRS Radiation Monitoring Procedures Manual 5Q1.2, Procedure 496, *Radiological Containments*. The revision concerns the measurement location for calculating air exchange rates.

The ALARA Center provided the H-Canyon ALARA Coordinator with information to procure a MAC-21D Ventilation System. [www.nfsrps.com/prod/95/27](http://www.nfsrps.com/prod/95/27)

The ALARA Center has added a wide variety of Absorbtek Services Silflex non hazardous shielding samples to the shielding display. They include silicone tungsten, silicone iron, silicone tungsten iron mix, and silicone boron carbide (B4C). Sample thickness ranges from 1/8 inch to 2 inch. [www.absorbtekservices.com](http://www.absorbtekservices.com)

The ALARA Center provided Savannah River National Lab Homeland Security Organization with information to order the following Fhram Safety Products single use disposable rubber overshoes from SRS Stores.

<u>Caption/Item #</u>	<u>Description</u>
32-24630.00	red Layflat Single Use Disposable ambidextrous Rubber Overshoe size Medium/Large fits shoe sizes men 5-8 women 6-9 100 pair per case
32-24631.00	yellow Layflat Single Use Disposable ambidextrous Rubber Overshoe size XL fits up to shoe size 13, 100 pair per case
32-24632.00	orange Layflat Single Use Disposable ambidextrous Rubber Overshoe size Jumbo fits shoe size 13 and above, 100 pair per case

The ALARA Center supported H-Canyon Waste Certification facility Support personnel in designing a Perma-Con Modular Containment Building to be used on 221-H second level to process B-25 waste. The building will be 8 feet wide by 10 feet long by 8 feet high. It will have a 7 foot rollup door, a 4 foot by 4 foot airlock, and a panel for connecting ventilation and other lines. <http://www.nfsrps.com/prod/4>

The ALARA Center supported the Defense Waste Processing Facility (DWPF) in the design and procurement of the following disposable lab coats.

Item#	Qty	Part#	Description
1	12	QU01034	XL Disposable White Quantumwear Lab Coat with Zipper, elastic @ wrist, pocket at left thigh and dosimeter strap at left breast, 30 pr/case
2	13	QU01034	3XL Disposable White Quantumwear Lab Coat with Zipper, elastic @ wrist, pocket at left thigh and dosimeter strap at left breast, 30 pr/case
3	13	QU01034	6XL Disposable White Quantumwear Lab Coat with Zipper, elastic @ wrist, pocket at left thigh and dosimeter strap at left breast, 30 pr/case

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

The ALARA Center provided D&D with specific information to purchase five of the following Nilfisk GM-80 vacuums. They were ordered without HEPA filters and accessories because they have adequate inventory.

- GM80 with GMPJ motor, 110-120V W/O ACCESS, part number 01790190

The ALARA Center provided H-Canyon TRU Repack personnel with procurement information to order twelve of the spring loaded mop handles (SLMH-1) from Peters Machine and Welding. [www.petersmachineinc.com/](http://www.petersmachineinc.com/)

## **UPCOMING VENDOR VISITS**

Quest Environmental & Safety Products Avacen Thermal Exchange System for Heat Stress, 1/20/2010, locations and time TBD <http://www.avacen.com/avacen/action?do=overview&topic=quick>

## **ALARA CENTER POINTS OF CONTACT**

Robbie Bates	(803) 208-3601, Pager (803) 725-7243 ID #14550	<a href="mailto:robbie.bates@srs.gov">robbie.bates@srs.gov</a>
Ellen Parrish	(803) 208-1027, Pager (803) 725-7243 ID #11617	<a href="mailto:ellen.parrish@srs.gov">ellen.parrish@srs.gov</a>