

**SRS ALARA & SAFETY COMMODITY (A&SC) CENTER**  
*Engineered Solutions for Radiological, Respiratory, Safety & Industrial Hygiene Applications.*

## MARCH 2011 ACTIVITY REPORT

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

As you have read above, the facility name has changed to include safety commodities. By definition a commodity is something of use, advantage or value. We will expand our focus to all areas of personal protective equipment (PPE) to reduce risk “as low as reasonable achievable”. The Safety Commodity concept will include the ALARA Center, Respiratory Protection, and Health & Safety.

The A&SC Center welcomes James (Jim) Davis to its staff. Jim has worked at SRS since 2009 and has twenty-four years experience in the Health Physics field primarily at the Hanford Washington site.

The external SRS A&SC 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 A&SC Center website is available in InSite at the ESH&QA Regulatory and Radiological Technologies website. [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 A&SC provided the Burial Ground with information on a portable shield wall from Barriers Unlimited available in a variety of colors that can be filled with water or sand. <http://nationalsafety.wordpress.com/2010/04/27/ansi-z87-and-z87%E2%80%A6-what%E2%80%99s-the-difference/>



The closure procedure for the five gallon poly catch bottle (SRS Stores 32-22542.00) has been revised to delete the use of a ¾ inch inner plug for closure. The 2 inch cap and HEPA filter assembly is removed and another two inch cap is installed for closure. This change eliminates the need for two torque sockets. The 70 mm cap with ¾ inch treaded knockout is Stores 32-22689.00 and the closure cap is 32-25483.00. These changes have been made in the Field Material Tracking System (FMTS) and new closure instructions/caps provided to the field and Stores for bottles on-site. The revised closure instructions are included in this Activity Report and attached to each bottle. 

At the request of Savannah River Remediation (SRR), the A&SC Center has developed and store stocked a five gallon poly bottle for non radiological use. The caption item number is 32-25487.00. It is the radiological use bottle without the radiological marking and utilizes a white adapter (32-25485.00) for a tygon hose connection rather than a yellow HEPA filter assembly.

The A&SC Center at the request of SRR has store stocked the following items to be used with Nalgene 4-gallon lowboy container (32-4735.00).

- Plastic ½ inch thru hull with nut to include rubber and plastic gasket for cap modification for non radiological use,

32-25468.00

- Plastic nut ¾ inch ID to include rubber gasket for cap modification to install HEPA filter for radiological use, 32-25469.00
- 63 mm Torque Fitting for 4-gallon lowboy cap closure

The A&SC Center provided H-Area Tank Farm Radiological Protection Department (RPD) with twenty-four disk smear tools. Any facility can supply the mop handle the A&SC can provide the disk smear head.

The A&SC Center ordered the following Minuteman International ULPA (Ultra Low Particulate Air) filtered vacuum systems for Spent Fuels Projects in L-Area.

Item	Part No.	Qty.	Description
1	C82915-05	2	Minuteman X829 Vacuum, includes ULPA filter, pre-filter, filter protector, cloth filter, and disposable bag
2	490022-1	2	20C Tool Kit, Dry
3	110030PKG	1	Pre-filter sleeve (6)
4	805038PKG	1	Paper Filter Protector (12)
5	760598PKG	1	Paper Filter Collection Bag (10)

The A&SC Center ordered the following Nilfisk HEPA filter vacuum systems for Spent Fuels Projects in L-Area.

Item	Part No.	Qty	Description
1	01790632	2	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

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

The A&SC Center provided Waste Remediation in H-Canyon Warm Shop with three Silflex with iron shield blankets ( 1 ft. x 3 Ft.) for use during TRU box work. Replacement blankets were ordered for the A&SC Center.

The A&SC Center recommended the BitBuddie Dustless 1-4 inch Bit Shroud when drilling 6 inches deep into concrete culverts in the Burial Ground. The shroud connects to a HEPA vacuum system to collect the dust. Thirteen BitBuddies were ordered. <http://dustlesstechnologies.com/bitbuddie.htm>

The A&SC Center ordered two sets of Firefighter Bunker Gear Step-Off Pads for TRU Emergency Response Kits in F-Area. 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.

The A&SC Center provided F-Area TRU RPD personnel with three disk smear tools and three large area survey tools. All were attached to Unger Opti-Loc 18 foot long telescoping aluminum poles (part number ED550)

The A&SC Center has a sample of the Unitech Services CoolVest made in the United States. It was previously called the TempVest made in Germany. The Outlast Adaptive Comfort technology used in the lightweight vest was originally developed for NASA. Attached is a brochure.

## **UPCOMING VENDOR VISITS**

Advanced Inspection Technologies, 4/20/11, 766-H Rm. 1024, anytime 9 am – 2 pm

## **ALARA CENTER POINTS OF CONTACT**

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