

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

SEPTEMBER 2011 ACTIVITY REPORT

ASSISTANCE, RESEARCH, AND TOURS

The external SRS A&SC Center website is posted at 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 web-site. www.srs.gov/general/programs/alara/

The Hanford ALARA Center website is available at this time. www.hanford.gov/rl/?page=973&parent=0. However, due to budget constraints, the Hanford ALARA Center closed on September 19, 2011 after fifteen years of operation.

Visit the D&D Knowledge Management Information Tool (D&D KM-IT) at www.dndkm.org to see the new features and enhancements that are being integrated and incorporated into this free tool developed to promote the exchange of D&D knowledge throughout the DOE complex. The website will soon be sporting a new look with even more user interaction; the result is a fresher appearance and more intuitive navigation. Also coming soon to the D&D KM-IT is a vendor management module that will provide a directory of commercial vendors who provide D&D related technologies, supplies, and services. While not a comprehensive directory of all the D&D vendors in the marketplace, the new module will provide an excellent starting point for researching the vendors who provide D&D products and services. The D&D KM-IT system has been developed by the Applied Research Center at Florida International University for the Department of Energy (DOE EM-44).

The A&SC provided the Savannah River National Laboratory (SRNL) Industrial Hygienist with information concerning the Sperian (32-000462-0000) Eye Wash Wall Station with two Eyesaline squeezable 32 ounce bottles. It will be used in a laboratory module in SRNL.

The A&SC was contacted by Nuclear Materials Storage Project (NMSP) Radiological Protection Department technicians needing a shoulder length glove to provide protection from potential contact with liquid when surveying 55 gallon drums of tritiated moderator. The A&SC recommended the 1.25 mil thick, 34 inch long clear polyethylene glove available in Stores.

The A&SC has store stocked the Quest white Quantumwear single use disposable coverall without hood and boots in 6XL. Smaller sizes were already store stocked but there is a need for the 6XL.

Irwin Tool's SpeedHammer masonry bits (photos below) are made to use on concrete with containing rebar. The bits have twice the usual amount of carbide in their tips and are designed to be twice as durable as standard masonry bits. The bits come in 6-, 8-, and 12-inch lengths in various diameters. www.irwin.com/tools/browse/drill-bits/masonry-bits/speedhammer-power-masonry-drill-bits Please see the picture below on the left. It should be noted that the worker in the photo should be wearing gloves and safety glasses.



John Shannon from Radiation Protection Systems (RPS) Inc. visited the A&SC Center on 9/27/11. The following recently revised RPS booklets are available in the A&SC Center.

- *RPS Engineering Data for Selecting and using Portable HEPA Filtration Units and Accessories for Nuclear Applications*
- *RPS Radiation Shielding Products for Nuclear Power Generators, Department of Energy, and Radiopharmaceutical*

The SRS Engineering Standards Manual Standard Number 01064, *Radiological Design Requirements*, was revised on 8/24/11. A value of \$8,500/person-rem will be used in the optimization analysis. This value is based on May 2011 dollars and may be updated periodically based on the consumer price index.

The A&SC provided Solid Waste Management RPD personnel with two 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 replacement cost, the anemometers are discarded after two years rather than maintaining a calibration program. The ALARA Center applies a calibration expiration label to each Kestrel 1000 at the time of issuance.

The A&SC Center provided the Field Radiological Protection Manager at URS in Oak Ridge TN with G/O Corp information to procure six each of the following step-off pads for outdoor use.

Part No	Description
GJ1218	Step-Off Pad, 150 mil rubber nitrile 20" X 30", non-skid surface on both sides, yellow background with magenta print "REMOVE ALL OUTER PROTECTIVE CLOTHING BEFORE STEPPING HERE" and two stop signs.
GJ1225	Step-Off Pad, 150 mil rubber nitrile 20" X 30", non-skid surface on both sides, yellow background with magenta print "REMOVE OUTER SHOE COVERS/GLOVES BEFORE STEPPING HERE" and two stop signs.

The Personal Protective Equipment Oversight Committee reviewed and approved DWPF request for use of the Sawyer Tower Gore Tex 2-piece Chemical Suit. DWPF successfully evaluated the suit when loading the caustic tanker. This suit was determined to be cooler in a heat stress environment than the Kimberly Clark A70 suit previously used. In fact, the caustic tanker truck driver wears the Sawyer Tower Gore Tex 2-piece suit. It was noted that this suit offers protection from caustics but not acids which should be apparent to facility Industrial Hygienists when selecting PPE.

The A&SC Center provided the F-Area Tank Farm ALARA Coordinator with specific information to procure four Tiresocks for a 110 ton crane. The Tiresocks will be used to prevent the wheels from becoming radiologically contaminated. www.tiresocks.com

The A&SC Center provided Solid Waste Management RPD personnel with information concerning a set of Firefighter Bunker Gear Step-Off Pads for H-Area Canyon. 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 received information concerning Hygenall toxic heavy metal decontamination/cleaning products. It will be determined if there is a need for this product at SRS. <http://www.hygenall.com/us/>

The SRNS Utilities & Operating Services organization plans to evaluate the Brady polycarbonate glow in the dark handrail cover on the handrails at an A-Area Outfall location. The cover meets the 2009 International Building Code and Fire Code, 2009 National Fire Protection Association 101: Life Safety Code, and LEED(r) Green Building Requirements Standards. It is expected that use of this product will provide better handrail visibility at night and be more cost effective than painting handrails.

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