

SRS INTEGRATED SAFETY SOLUTIONS CENTER (ISSC)
Engineered Solutions for Radiological, Respiratory, Safety & Industrial Hygiene Applications.

DECEMBER 2011 ACTIVITY REPORT

ASSISTANCE, RESEARCH, AND TOURS

The external SRS ISSC website is posted at www.srs.gov/general/programs/alara/alara_center.htm

The internal SRS ISSC website is available in InSite at the ESH&QA Regulatory and Radiological Technologies web-site. www.srs.gov/general/programs/alara/

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 2012 Savannah River Site (SRS) Radiation Exposure Goal was set at **168** rem by members of the Savannah River Nuclear Solutions Management & Operating (SRNS M&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 2011.

On 12/13/11 the September 2011 Individuals Developing Effective Alternative Solutions (IDEAS) “Radiological Safety” promotion winners attended a breakfast with SRNS Executive Vice President & COO Fred Dohse to receive their awards. The best four suggestions each received a \$750 cash prize and the honorable mention received a \$50 gift card. The best four were; David Hart - Reduction of Frequency to Change Out SS RTD Thermowells in 221-H, Billy Pennington - Blow Down Samplers in the Hot and Warm Sample Aisle, Guy Fiebiger – Upgrade Radio Frequency Generated Electronic System to Reduce Work Times for Radiological Work in CAS or ARA's for Canyon Cranes, and Dennis Checks - Utilize Switch Rated Plugs on Motors vs. Hard Wiring in Radiological Areas. The honorable mention winner was Cheryl Monroe - Practicing ALARA.



(L-R): RPD Director, Gordon Guillin; Dennis Checks, Cheryl Monroe, Billy Pennington, & Fred Dohse, not pictured: Guy Fiebiger and David Hart.

The ISSC provided D&D with information to procure two Bit Buddies Dustless Bit Shroud to be used with a vacuum system when drilling into drywall to control silica dust. www.dustlesstechnologies.com/bitbuddie.htm

The ISSC provided a five gallon container of Bartlett Polymeric Barrier System (PBS) fixative to the Savannah River Remediation (SRR) Defense Waste Processing Facility (DWPF) for painting a concrete vault wall. DWPF has placed an order and will replace PBS borrowed from the ISSC. The clear PBS is Stores caption item number 32-15538.00 and the blue is 32-16729.00. <http://www.bhienergy.com/products-and-technology-contamination-control-coatings-polymeric-barrier-system.htm> The ISSC provided F-Area TRU Waste Projects Radiological Protection Department (RPD) with an Unger ED550 18 foot extension pole and two large area smear tools. They will be used by RPD to perform radiological surveys under suspended loads.

The ISSC was contacted by E-Area TRU Waste Projects needing a disposable lab coat to be worn by workers on cell 11 as an additional layer of protection from radiological contamination. Below is the ISSC recommendation. Twelve cases were ordered.

- Quantumwear disposable white coverall Stores caption items numbers 32-25569.00 (XL), 32-25570.00 (3XL), 32-25571.00 (6XL)

On 12/8/2011, Augusta State University faculty members toured the Savannah River Site which included the ISSC. Augusta State University is planning to offer a Bachelor's Degree in Health Physics.

On 12/8/11, the ISSC hosted a site visit by representatives from Telpro Inc., the Tele-Tower Adjustable Work Platform manufacturer. The day-long visit started in the Tritium facilities to discuss their specific applications. Additionally, the Telpro representatives were in 766-H to discuss Tele-Tower use with other interested organizations on site. The meetings were very productive and should lead to changes in the site scaffolding procedure and training.

Site Infrastructure evaluated several impact resistant gloves and selected the Valeo Kevlar Driver Anti Vibration glove (model number V455-KE/GLAK). This glove offers excellent protection from cut, abrasion, and vibration. It has been approved for site use and will be store stocked when permitted by the new SRNS procurement system. www.valeowork.com/?id=10&prodId=225&CatId=37&Parent=32

The Savannah River Site for many years has used the North Anti-C launderable latex **glove**. The ISSC was recently questioned concerning the manufacturer advertised 15 mil thickness. Honeywell Safety Products (formerly North Safety) was contacted and confirmed that the correct thickness is 18 mil \pm 3 mil. This error in literature will be corrected.

The ISSC was contacted by RPD from DWPF needing spring loaded mop handles for conducting large area smear surveys. The spring loaded mop handles, part number SLMH-1, are available from Peters Machine (phone 803-827-0565) with a minimum order of one hundred.

The ISSC provided the Saltstone Facility with information below to procure ten buckets of G/O Corp Rad Chain, Part #GZ1380. It is an outdoor use radiological barrier metal chain, #2 double loop, yellow and magenta, 500 ft. per bucket.

The ISSC met with Burial Ground Cell 11 TRU management to determine the need and selection of a HEPA vacuum. The following Nilfisk HEPA vacuum was recommended and two were ordered.

- GM80I part number 01790632. 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

The ISSC ordered the following G/O Corp contamination control items for the Radiological Protection Department (RPD) in the SWDF.

Qty	Part #	Description
2	GJ1008-N	36"x36" yellow adhesive SOP (30 sheets/pad, 4 pads/case)

The ISSC was contacted by RPD personnel with slipping concerns after applying Waste Lock 770 Absorbent. The manufacturer, M2 Polymer, was contacted and recommended that we sprinkle TOTAL-SORB as a second treatment after Waste Lock 770. TOTAL-SORB is a granular mineral sorbent with good grit.

<http://www.m2polymer.com/html/oil-absorbents-total-sorb.html>

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