

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

## JANUARY 2012 ACTIVITY REPORT

### ASSISTANCE, RESEARCH, AND TOURS

The external SRS ISSC 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 ISSC 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/)

Visit the D&D Knowledge Management Information Tool (D&D KM-IT) at [www.dndkm.org](http://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 ISSC provided E-Area Cell 11 TRU Waste personnel with information to procure twenty-five pair of Hexarmor/Piercan USA Hotbox Overgloves. This glove offers the best combination of worker protection and dexterity when worn over glovebox gloves. <http://www.hexarmor.com/products/detail/hexarmor-overglove-hog-long-cuff/>

The ISSC ordered the following G/O Corp Step-Off Pads (SOP's) for use at radiological boundaries in F-Area Laboratory

Qty	Product #	Description
2	GJ1218	SOP, 140 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.
2	GJ1226	SOP, 140 mil rubber nitrile 20" X 30", non-skid surface on both sides, white background with black print "REMOVE ALL PROTECTIVE CLOTHING BEFORE STEPPING HERE" and two stop signs.



H-Canyon TRU Repack personnel needing a mobile shield wall to reduce worker occupational radiation exposure when working near boxes waiting to be repackaged. The ISSC provided two options: a three to four foot wide by six foot high mobile rack with either lead wool or non-hazardous blankets. The facility chose Nuclear Power Outfitters (NPO) mobile shield rack with sixteen 1"Wx3"L lead wool blankets.

The ISSC provided Savannah River Remediation (SRR) F-Area Tank Farm with information to purchase twenty 1-liter bottles of Decon Gel 1101. The peelable decontamination solution will be evaluated on a variety of surfaces to determine future potential uses. <http://decongel.com/>

The ISSC provided Tritium facility RPD personnel with the attached radiological posting insert procurement information.



The ISSC provided the H-Area Chemical Coordinator and Radiological Protection Department (RPD) management the requested information below concerning products used on-site and in industry to decontaminate portable survey instruments.

- SRS facilities use Radiacwash (<http://www.britec.net/radiacwash.html>), Contrad 70 (<http://www.deconlabs.com/tds/CONTRAD%2070%20Tech%20Sheet.pdf>), blue scrubs in a bucket, individual GoJo wipes, Clorex disinfectant wipes, Purell hand sanitizer, Kimberly-Clark WypAll Waterless Hand Wipes, glass cleaner and soapy water.
- Others products commercially available include Epicor RC-10 RadClean Site MSDS #37718 used in Spent Fuels Project to decontaminate casks (<http://www.epicorinc.com/rc.html#>), Decon 101 ([http://www.mohawksafety.com/product\\_info.php?products\\_id=145](http://www.mohawksafety.com/product_info.php?products_id=145)), and two products from Radiation Decontamination Solutions: one product for transition metals (Co-60/Cs-137) and another for actinides (Pu/U) [https://www.rkb.us/contentdetail.cfm?content\\_id=131080](https://www.rkb.us/contentdetail.cfm?content_id=131080) <http://www.deconsolutions.com/RadDecon/RadDecon.html>

The ISSC and Health Physics Services (HPS) Air Monitoring Lead worked with Procurement to resolve issues regarding procurement of Millipore (stores 32-382.00) and Canberra bar coded filter papers (32-11574.00) when site inventory was critically low. Both products are used in radiological systems that measure air quality. Delivery of the Millipore filter papers was delayed in part due to a manufacturer shortage of material. Delivery of the Canberra bar coded filter papers were delayed due to problems within the PeopleSoft Procurement System. Inventory of both items were delivered to SRS beginning the week of 1/23/11. Issues identified included the PeopleSoft replenish value not being populated from the Field Material Tracking System (FMTS) min/max value resulting in depletion of site inventory. Replenish values have been entered for both type filter papers and HPS ordered fifty-one boxes of the Canberra bar coded filter papers. In addition, there are problems with PeopleSoft routing approved requisitions to a buyer. RPD was requested to provide the ISSC with a list of other critical store stocked items.

The ISSC, at the request of the Project Management/Construction Services Field Support Industrial Hygienist, obtained Chemical Commodity Management approval to use the following Fiberlock Technologies chemicals at SRS.

Product	Site MSDS#
• ShockWave EPA Registered Disinfectant/Sanitizer/Cleaner Concentrate- 8310	45521-1
• IAQ Advanced Peroxide Cleaner Mold & Mildew Stain Remover- 8314	45528-1
• Grip-Tack Lockdown (Fixative) Demolition Adhesive- 6408	45524-1
• Piranha 8 Alkaline Paste Paint Remover- 5780	45525-1
• AfterShock EPA Registered Fungicidal Coating- 8390 (White)	45522-1
• LeadSafe Lead Dust Cleaner Concentrate- 5496 (Light Green Liquid)	45526-1

The ISSC provided the HB-Line RPD Manager with Infab Inc. 0.50mm Pb equivalent wrap around shielded apron information for potential use in HB-Line to reduce worker occupational radiation exposure. The aprons are available in the three materials listed below. <http://www.pnwx.com/Accessories/LeadProducts/Aprons/Infab/FullCoatWrap/>

- Standard Lead vinyl which is the heaviest of the three products
- HX Lightweight Lead which is 30% lighter than the standard lead. This is made of Infab's blend of powdered metals and enhanced polymers.
- Green Light contains no lead and is more than 42% lighter than an all lead blanket and still provides a full 0.50mm Pb equivalent protection level.

## **INTEGRATED SAFETY SOLUTIONS CENTER POINTS OF CONTACT**

Robbie Bates	766-H Room 1027	(803) 208-3601	<a href="mailto:robbie.bates@srs.gov">robbie.bates@srs.gov</a>
Ellen Parrish	735-B	(803) 952-5825	<a href="mailto:ellen.parrish@srs.gov">ellen.parrish@srs.gov</a>