

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

SEPTEMBER 2012 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 Savannah River Nuclear Solutions (SRNS) Environment, Safety, Security, & Health (ESSH) Radiological Protection Department (RPD). http://www.srs.gov/general/programs/alara/alara_center.htm

Visit the Deactivation and Decommissioning Knowledge Management Information Tool (D&D KM-IT) at www.dndkm.org. The D&D KM-IT system was developed and is maintained by the Applied Research Center at Florida International University for the Department of Energy (DOE EM-44). It features the following topics: Hot Line, Lessons Learned, Specialist Directory, Technology, Best Practices, Vendors, Web Crawler, Picture Video Library, and ALARA Reports.

The following new items are available for site use and are store stocked.

- Ansell Kevlar Liner 70-200 size 7 (Stores C14-8.00)
- Ansell Kevlar Liner 70-200 size 8 (Stores C14-9.00)
- Ansell Kevlar Liner 70-200 size 9 (Stores C14-10.00)
- Sperian Leightning L2N Neckband Earmuffs (Stores S74-15.00)

The ISSC assisted Decontamination and Decommissioning (D&D) personnel locate five liters of Decongel 1108. It was used to decontaminate fixed beta gamma contamination from the 710-C Evaporator Storage concrete floor. The contamination resulted from liquid spilled on the concrete pad approximately a year ago. Below is a chart of the survey results.



The ISSC met with a representative from Savannah River Remediation (SRR) Health and Safety to discuss cut protection gloves for use in a glovebag. Suggested gloves are listed below.

- Hexarmor 13 inch long HOG (Stores 32-25371.00)
- Hexarmor Hercules (32-25130.00)
- Ansell Hyflex 11-511 (Stores 32-17660.00 thru 32-17663.00)
- Ansell Kevlar Glove Liner (Stores C14-8.00 thru C14-10.00)

The ISSC provided assistance to the Defense Waste Processing Facility (DWPF) in the selection and procurement of the following HEPA filtered vacuum systems.

Item #	Qty	Part #	Description
1	3	01728132	Nilfisk Compact Backpack HEPA Electric Vacuum with accessory kit
2	1	C83015-01	MRS-3 15GSS Dry Only Mercury Vacuum, 115V, 50/60 Hz, 15 Gal, Stainless Steel, ULPA Filter Assembly
3	1	C82915-05	Minuteman X829 Vacuum, includes ULPA filter, pre-filter, filter protector, cloth filter, and disposable bag
4	1	490022-1	20C Tool Kit, Dry (for Minuteman X829)

The ISSC provided assistance to SRR H-Area Tank Farm with the following HEPA vacuum system to provide ventilation for a glovebag.

Item #	Qty	Part #	Description
1	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
2	1	01702425	Variable Speed Controller

The 2012 SRS Safety Expo was held at the Center for Hydrogen Research on 9/13 and 9/14. It hosted more than 40 booths and was attended by approximately 1,500 SRS employees and contractors. The ISSC provided a display of SRS approved ear plugs, ear plug samples, and a display of SRS approved safety gloves.

The ISSC recommended the Piercan USA radiation reducing glove (USU3DA1221-10N) to the F/H Laboratories Radiological Protection Department (RPD) to reduce worker occupational extremity dose. The glove is made of a layer of neoprene with bismuth, tungsten, and lanthanum between an inner and outer layer of polyurethane. Ten pairs were ordered.

The ISSC recommended and procured ten safety cutters (G/O Corp part number GZ1240) for H-Area Canyon personnel to cut sheets of plastic.

http://www.gocorp.com/catalog/index.php?main_page=product_info&cPath=0&products_id=86&zenid=b6147652608ddf6284e09266f576d212

The ISSC recommended and procured the G/O Corp items below to be used as temporary barricades in the Tritium facilities.

Item #	Qty	Part Number	Description
1	4	GZ1955	yellow/magenta 15 foot retractable tape unit wall mount
2	4	GZ1955	black/yellow 15 foot retractable tape unit wall mount
3	15	GZ1984	Wall Mount Receiver Unit set

On 9/17 the ISSC hosted a visit by Piercan USA to discuss glove needs with Savannah River Remediation and Tritium Facility representatives. The 21 inch long UDU3DA radiation reducing glove is providing adequate shielding but perspiration is collecting in the glove during 3-4 hour work evolutions in the Defense Waste Processing Facility Contact Decontamination and Maintenance Cell (CDMC). DWPF will evaluate reducing the length of the glove to 11 inches and using the remaining 10 inches as a sleeve in an effort to remove perspiration from the glove. Samples of the radiation reducing glove box glove were provided to HB-Line and DWPF for evaluation.

On 9/19 the ISSC sponsored a Unitech Services Group product demonstration that included the 3M Versa-flo Powered Air Purifying Respirator (PAPR) system, the new Cool Shirt, FR Cool Tech coveralls, the new Dry Guard waterproof disposable coveralls, the new high viz grip tech glove and the new splash apron. Approximately twenty-five people from Savannah River Nuclear Solutions (SRNS) and Savannah River Remediation (SRR) attended the demonstration.



Unitech's Dave Welcher (L) demonstrates operation of the 3M Versa-flo PAPR to Steve Glover, SRNS Industrial Hygiene Engineer

UPCOMING VENDOR DEMONSTRATION

Frham Safety Products Inc., 10/9/12, 766-H Room 1043, anytime 10 am – 1 pm

Technical Seminar – Parameters for Selecting Protective Coveralls, 10/10/12, 766-H Room 1047, 10 am & 1 pm

ISA Corporation, 10/18/12, 766-H Room 1040, anytime 9 am – 1 pm

INTEGRATED SAFETY SOLUTIONS CENTER POINTS OF CONTACT

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