

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

JUNE 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 has been 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.

On 6/13/12 SRNS D&D Radiological Protection Department (RPD) personnel in C-Area reported a safety concern. There was a screw protruding from inside two spools of rad rope (Stores 32-20615.00) that had the potential to cause a finger laceration when removing rope from the spool. A total of four more defective spools were located resulting from a notification to all Site facilities. Users were instructed to not use the rope if the hazard could not be eliminated. An Operating Experience First Alert was issued regarding the potential laceration hazard due to a protruding screw on spools of radiological rope. RPD also arranged to have the First Alert forwarded to the Energy Facilities Contractors Group (EFCOG) Radiological Protection Subgroup. The supplier and manufacturer were also notified to ensure the concern does not reoccur.



The ISSC provided SRNS D&D Area Projects with the following procurement information for potential use during D&D activities at 235-F.

- Marcris Concrete Floor Shaver
- Pentak Model 13 440V HEPA Vacuum with 55 Gallon Drumming System
- Pentak Model 12A HEPA Vacuum, Air Powered, 110V AC Cont. System with 3 Port Plenum
- Pentak Model 15A HEPA Vacuum, Air Powered, 110V AC Cont. System with 3 Port Plenum
- Pentak Nozzles, Hoses, and Cuffs
- Nilfisk CFM 3707/10 HEPA Filtered Vacuum System with Drum Top Separator Lid
- Nilfisk CFM Nozzles, Hoses, and Cuffs

The ISSC provided SRNS RPD Savannah River National Laboratory (SRNL) and Savannah River Remediation (SRR) Safety & Health (S&H) at H-Area Tank Farm with a total of four Kestrel 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 ISSC. The Kestrel 1000 calibration is good for two years from the date it is placed into service. Because of low cost they are discarded after two years rather than maintaining a calibration program. The ISSC labels each Kestrel 1000 with a calibration expiration label at the time of issuance.

The ISSC provided SRR H-Area Tank Farm RPD with information to procure G/O Corp 8"Wx12"H and 10"Wx14"H Proshield Lite custom outdoor signs. They are guaranteed 15 years against fading, chipping, peeling, or cracking. RPD will use them for radiological postings but they can be custom designed to meet any posting need.

The ISSC provided the H-Area Local Safety Improvement Team (LSIT) with information to procure and evaluate Bolle DUO Safety Goggles (Stores C14-2.00). A total of eighteen pairs were ordered to evaluate in HB-Line, H-Canyon, and H-Outside Facilities.

The ISSC and Site Ventilation Committee reviewed and approved the use of the following two HEPA-filtered vacuum systems after successful HEPA filter testing by the Site Filter Test Group.

- G/O Corp Omega Plus HEPA Vacuum (ideal for silica dust activities)
- Minuteman MRS-3 HEPA Filtered Mercury Vacuum
http://www.minutemanvac.com/public/documents/841_MercuryVacuum.pdf

The ISSC designed and ordered the following contamination control products from G/O Corp for SRNS Area Closure Projects Cell 11 work in E-Area.

Item	Qty	Product #	Product Description
1	3	GJ1027	18" Tack Roll Refill Only
2	1	GJ1022	9" wide Tack Roll, Frame, and Wooden Handle

Bolle Safety offers an RX prescription insert for the Atom Safety Goggles (Stores C14-3.00). Contact the ISSC to obtain information concerning the procurement process.

The ISSC met with F-Area TRU Remediation to present items for potential use to combat heat stress. The following items were ordered after successful evaluation.

- Unitech CoolTech modesty clothing (186 shorts and shirts were ordered)
- Six Bullard Isotherm Cooling Vest http://www.bullard.com/V3/products/body_temp_management/isotherm/
- Six Bullard Isotherm Cool Packs (2 per pack)
- Six Pro Cool Vest 55 Degree
- Six Pro Vest 55 Degree Unipaks (2 per pack)

On 6/6/12 the ISSC hosted a Radiation Protection Systems (RPS) vendor visit in the ISSC. John Shannon discussed product applications and answered SRS personnel questions regarding specific Perma-Con building designs and ventilation requirements.

On 6/20/12 the ISSC sponsored a demonstration by Quest Environmental & Safety Products. Mark Dieterle displayed a variety of products to combat heat stress that included Quantumwear disposable coveralls and Ergodyne evaporative cooling products. Approximately seventy-five (75) personnel from SRNS and SRR attended the demonstration. The new Ergodyne evaporative cooling products with advanced PVA material were well received and will be pilot tested by several SRS facilities.

<http://www.ergodyne.com/products/pages/default.aspx?PCA=14&ShowPro=1>

The ISSC was contacted by H-Canyon Truckwell TRU personnel needing a fixative and application method to fix contamination on 55 gallon drums short term during the loading process. A garden sprayer was determined to be the application method. The three products listed below were recommended. The facility decided to use the Bartlett Polymeric Barrier System (PBS) as the fixative. The ISSC provided three 1-gallon containers of PBS to expedite work.

- Bartlett PBS <http://www.bartlettnuclear.com/producs-technology-contamination-control-coatings-polymeric-barrier-system.htm>
- Instacote CC Doff <http://www.instacote.com/cc-doffing.htm>
- Instacote CC Fix <http://instacote.com/cc-fix.htm>

UPCOMING VENDOR VISITS

CBI Polymers DeconGel, 7/11/12, 766-H Room 1044, 1 PM

Honeywell Safety Products, 7/18/12

Advanced Inspection Technologies (AIT), 7/24/12, 766-H, Room 1040 anytime 9 am – 1 pm

INTEGRATED SAFETY SOLUTIONS CENTER POINTS OF CONTACT

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