

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

MAY 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 ESH&QA Regulatory and Radiological Technologies web-site. 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 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 ISSC provided input to Piercan USA to develop a radiation reducing glove at the request of Savannah River Remediation (SRR) Defense Waste Processing (DWPf) Radiological Protection Department (RPD) Management. Specifications and a picture of the glove are included here. DWPf has placed an initial order of one hundred pairs.

- Layer of neoprene with bismuth, tungsten, and lanthanum between an inner and outer layer of polyurethane.
- 0.012 inches thick +/- 0.005 inches
- 21 inches long +/- 1.00 inches (shielding material is \geq 19.00 inches)
- Size is approximately 10.25 and is one size fits all
- Color is blue but will change to yellow within three months
- Trefoil on back of the glove approximately 3"-5" from the beading in green or black ink
- Glove part number (USU3DA1221-10N) will be stamped below the trefoil
- Composition is environmentally friendly "green" materials therefore there are no special disposal requirements



The ISSC provided RPD in Nuclear Material Storage Project and Solid Waste/TRU 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. Due to the low cost they are discarded after two years rather than maintaining a calibration program. The ISSC labels each Kestrel 1000 with a calibration expiration sticker at the time of issuance.

The ISSC provided F/H Area Laboratories Operations with the following Nilfisk HEPA filtered vacuum products as an engineering control to ventilate a glove bag. Products on display in the ISSC were used to expedite work and will be replaced.

Qty	Part No.	Description
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
1	01702425	Variable Speed Controller

The ISSC is supporting the SRNS Hearing Conservation Subject Matter Expert (SME) and field industrial Hygiene by obtaining ten pair of Honeywell Lightning L2Ns Neckband Earmuffs (product no. 1011995) for evaluation with the Bionic Face Shield.

The ISSC provided support to Area Closure Projects Cell 11 work in E-Area that led to the procurement of twenty-three extended tools from Peters Machine & Welding. <http://www.petersmachineinc.com/>

The ISSC designed and ordered the following SOP from G/O Corp for L-Area Spent Fuel Project.

Item	Qty	Product #	Product Description
1	4	GJ1272-N	Step-Off Pad, 3/8 inch thick rubber nitrile 20" X 30", non-skid surface on both sides, white background with green print "REMOVE SHOE COVERS BEFORE STEPPING HERE" and two stop signs.

The ISSC recommended the following Nilfisk HEPA filtered vacuum products to SRR H-Area Tank Farm for ventilating a glove bag during resleeving contaminated inspection cameras.

Qty	Part No.	Description
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
1	01702425	Variable Speed Controller

The ISSC ordered two buckets of Rad Chain (product number GZ1380) from G/O Corp for the F-Area Radiological Protection Department (RPD). Rad Chain is a radiological barrier metal chain, #2 double loop, and is yellow and magenta in color. It has a patented "Everlast" 2-mil poly baked on powder coating to create a durable and long lasting finish. http://www.gocorp.com/catalog/index.php?main_page=index&cPath=8_111

The Rigging & Transportation Local Safety Improvement Team (LSIT) contacted the ISSC in need of vented hard hats. The ISSC recommended the 3M orange (H-707V-UV) and white (H-701V-UV) vented hard hats with UV sensor to indicate when the hard hat has been in the sun too long. <http://multimedia.3m.com/mws/mediawebservlet?mwsId=66666UF6EVsSyXTtOxfEmXfXEVTQEVs6EVs6EVs6E666666--&fn=Uvicator%20SellSheet%20HR.pdf>

The ISSC provided information to E-Area Cell 11 Operations personnel to procure forty lead blankets weighting 15 pounds per square foot and nine mobile shield racks from Nuclear Power Outfitters (NPO).

The ISSC met with the SRNS Heat Stress Management SME and representatives from Supply Chain Material Management to review personal protective equipment available to combat heat stress. A visit was also made to F-Area to meet with TRU management and workers concerning heat stress issues.

On 5/30/12 the ISSC hosted a demonstration of the Sharp Aquos 70-inch (diagonal) Interactive Board. It provides versatility and performance in business meetings, teleconferences, presentations, training/classroom instruction and high-impact signage. It allows the user to write or draw directly on a scanned or created document and share the information real time with another Board connected to the network. Approximately thirty people from SRNS and SRR attended the demonstration.

On 5/16/12 the ISSC sponsored a demonstration by Ahlberg Electronics, a company that provides cameras and underwater lighting to forty percent of the nuclear facilities worldwide. Approximately fifty people from SRNS and SRR attended the demonstration.

On 5/30/12 the Unitech Technical Accounts Manager provided the ISSC with a Cool Shirt Back Pack Cooler Cooling Unit demo unit. The product will be shown to site personnel for potential use at SRS. <http://coolshirt.net/backpack-cooler.html>

On 5/17/12 the ISSC manned a Safety Gloves and Glasses booth at the SRNS Spring Safety Splash held in 766-H. The ISSC room 1032 now has a display of store stocked safety glasses with both clear and smoke tinted lenses.

INTEGRATED SAFETY SOLUTIONS CENTER POINTS OF CONTACT

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