

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

FEBRUARY 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. 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 ALARA Center ordered twenty-two pairs of tungsten radiation reducing gloves from International Biomedical. They will be used to reduce worker extremity exposure in the Burial Ground. http://www.int-bio.com/productdisplay.php?menuimage=gloves.jpg&productcat=Surgical%20Gloves&subcat_id=6
<http://www.pnwx.com/Accessories/LeadProducts/Gloves/Proguard/>

The ISSC was contacted by Burial Ground personnel needing a product to decontaminate lead bricks below alpha transuranic levels. Two products recommended are listed below.

- Instacote CC Wet and CC Strip <http://instacote.com/products.htm>
- CBI Polymers Decongel <http://decongel.com/>

The Personal Protective Equipment Oversight Committee (PPEOC) met on 2/6/12 and approved SRS site-wide use of the 3M Light Vision 2 (part # 11476-00000) and Light Vision OTG (part # 11489-00000) Protective Eyewear. These products feature impact-resistant polycarbonate lenses (ANSI Z87.1 compliant) with an anti-fog coating and hands free permanently attached lighting. These products were evaluated by both SRNS and subcontractor personnel in D-Area. Below is a picture of The Light Vision 2.



The ISSC provided Procurement with radiological use plastic bags determined to have failed seams identified during pre-use inspection at the Savannah River National Laboratory (SRNL). Pre-use inspection is required per WSRC Manual 5Q1.1, Procedure 550, Plastic Bag Usage for Radioactive Material Section 5.4 (see below). Further evaluation determined that all failed bags were lot number 9083 and included a variety of sizes and was not limited to SRNL. Procurement took the lead to resolve the issue with the manufacturer who submitted a corrective action plan approved by Procurement and the Cognizant Technical Function.

5.4 Packaging

1. SELECT the appropriate size of Radioactive Material bag.

2. ENSURE bag is in good condition by visually inspecting the bag for tears or holes. Rigorously **INSPECT** the bag seam by inserting a hand and challenging the seam. Appropriately **DISPOSE** of unacceptable bags and **SELECT** a replacement.

IF multiple bags are found to be unacceptable, **THEN NOTIFY** management so action can be taken to determine the cause and take corrective action.

The ISSC provided Soil & Groundwater Radiological Protection management and a Subcontractor Technical Representative (STR) information about the following personal protective equipment approved for radiological work at SRS.

- Quest Barrierwear white, front zipper, w/attached hood and booties, reinforced stitching. No pockets or straps. 25/case. Sizes: XL - 6XL, part numbers 30144 – 30149, respectively
- Quest Quantumwear, white, single use disposable coverall with attached hood and boot, front zipper reinforced knees and elbow. Reinforced stitching with bound seams. High particle hold-out, light splash (not waterproof) for applications where heat stress is an issue. 25/case. Sizes L - 6XL, part numbers 01153 -01159, respectively

The ISSC recommended these Nilfisk HEPA filtered vacuum products to the SRNL Radiological Engineer for ventilating a glovebag.

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 recommended these Nilfisk HEPA filtered vacuum products to Construction for asbestos work.

Qty	Part No.	Description
1	01799500	VT60 Wet/Dry Vacuum includes Microfilter and Trolley Assembly
1	01727631	HEPA Filter Cartridge (retains 99.97% @ 0.3 microns)
1	01782950	Inlet Coupler w/Metal Tube for VT line
7	01716200	1.5" Antistatic Black Plastic Hose per meter (7 meters)
2	01716300	Antistatic Cuff
1	10944000	Curved Steel Wand with Ball Joint Removed
1	01719100	Container Polyliners (25/pkg)
1	11027200	23" Straight Steel Wand
1	1408248040	Eliminator/VT60 Universal Nozzle
1	1408258000	Eliminator/VT60 Crevice Nozzle
1	0107031000	38MM Adjustable Round Brush

The ISSC recently store stocked the following items.

Item #	Description
E22-1.00	Energizer Industrial 1.5V "AA" battery. Case of 144 batteries for HP Instrument Calibration Facility
E22-2.00	Energizer Industrial 1.5V "C" battery. Case of 72 batteries for HP Instrument Calibration Facility
E22-3.00	Energizer Industrial 1.5V "AA" battery. Case of 72 batteries for HP Instrument Calibration Facility
C14-1.00	Quest Barrierwear white disposable coverall with attached hood and booties, size 6XL
C14-2.00	Bolle DUO safety goggles
C14-3.00	Bolle Atom safety goggles
C14-4.00	Valeo Model V455-KE/GLAK Anti-vibration full leather drivers glove with kevlar lining and AV GEL in Palm, thumb and all fingers, size Medium
C14-5.00	Valeo Model V455-KE/GLAK glove, size Large
C14-6.00	Valeo Model V455-KE/GLAK glove, size XL
C14-7.00	Valeo Model V455-KE/GLAK glove, size 2XL
S74-1.00	Drager Nitrogen Dioxide chip 0.50 – 25 ppm for CMS Analyzer, ten measurements per chip
S74-2.00	Drager Ammonia chip 2 – 50 ppm for CMS Analyzer, ten measurements per chip
S74-3.00	Drager Carbon Dioxide 200 – 3000 ppm chip for CMS Analyzer, ten measurements per chip
S74-4.00	Drager Chlorine chip 0.20 – 10 ppm for CMS Analyzer, ten measurements per chip
S74-5.00	Drager Hydrochloric Acid 1 – 25 ppm chip for CMS Analyzer, ten measurements per chip
S74-6.00	Drager Methanol chip 20 – 500 ppm for CMS Analyzer, ten measurements per chip
S74-7.00	Drager Methylene Chloride chip 20 – 400 ppm for CMS Analyzer, ten measurements per chip
S74-8.00	Drager Ozone chip 25 – 1000 ppb for CMS Analyzer, ten measurements per chip
S74-9.00	Drager Styrene chip 2 – 40 ppm for CMS Analyzer, ten measurements per chip
S74-10.00	Drager Water Vapor 0.40 – 10 mg/L chip for CMS Analyzer, ten measurements per chip

On 2/15/12 the ISSC hosted a Capital Safety demonstration of the DBI SALA mobile TRAM fall restraint system that incorporates a rail system that allows the TRAM arm to travel from one end to the other on a work platform. The rail length is custom designed based on customer application. Those present included SRNS and SRR Health & Safety personnel and site Construction personnel. Several attendees shared potential applications at SRS. See video link <http://www.youtube.com/watch?v=EyAjG619aIA>. A variety of fall protection products were also on display.

INTEGRATED SAFETY SOLUTIONS CENTER POINTS OF CONTACT

Robbie Bates	766-H Room 1027	(803) 208-3601	robbie.bates@srs.gov
Ellen Parrish	735-B	(803) 952-5825	ellen.parrish@srs.gov