

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

APRIL 2010 ACTIVITY REPORT

ASSISTANCE, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at www.srs.gov/general/programs/alara/alara_center.htm

The internal SRS ALARA Center website is available in ShRINE at the ESH&QA Regulatory and Radiological Technologies web-site. www.srs.gov/general/programs/alara/

The Hanford ALARA Center website is available at www.hanford.gov/rl/?page=973&parent=0

The D&D Knowledge Management Information Tool (D&D KM-IT) is a web-based knowledge management information tool custom built for the D&D community. The system was developed by Florida International University – Applied Research Center (FIU-ARC) in collaboration with the Department of Energy (DOE EM20), EFCOG, and the ALARA Centers at Hanford and Savannah River. <http://dndkm.arc.fiu.edu/dndkm/>

The ALARA Center provided 772-F Laboratory Radiological Protection Department (PRD) Manager with information to order DeconGel™. DeconGel™ is a professional grade, safe, water soluble, and environmentally friendly product for tough, hard-to-clean contamination remediation challenges for any industry. DeconGel™ has the strength to pull off any job – from radioactive isotopes from nuclear plant decommissioning and nuclear medicine spills, to chemical and hazardous materials such as lead, mercury, asbestos, methamphetamines, and common household problems such as mold, dirt, oil and grease. There are four versions of DeconGel™: 1101, 1102, 1120, and 1121. The link below has specific information about each version. Unitech Services is a distributor to the nuclear industry. <http://www.decongel.com/>

Please contact the ALARA Center if you have an excess 85 gallon drum dumper that will lift, rotate, and tilt. Solid Waste Special Projects is in need of one as soon as possible for processing TRU waste.

The ALARA Center ordered a G/O Corp magnetic mount retractable tape unit with 15 feet of yellow and magenta tape (part number GZ1955MMM) for HB-Line. The unit will be used for radiological posting a doorway. <http://www.gocorp.com/product.php?ID=149>

The ALARA Center recommended Sherwin Williams Tile-Clad High Solids epoxy for painting a fixed contaminated outdoor fan base at the Savannah River National Laboratory (SRNL). The ALARA Center applied two coats of this product onto a section of 18.5 inch diameter stainless steel duct and a brick. Both are on display in the ALARA Center. The SRS MSDS numbers are 29885 and 29503. The product numbers are B62WZ111 and B60VZ70.

The ALARA Center ordered twenty of the following step-off pads from G/O Corp for F-Area Tank Farm RPD.

Product #	Qty	Product Description
GJ1226	20	Step-Off Pad, 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.

The ALARA Center ordered twenty Accuform five slot with top pocket radiological posting signs from The Barr Group for HB-Line RPD.

The ALARA Center ordered the following Minuteman HEPA vacuum systems and accessories for Spent Fuels Program.

Item	Part No.	Qty.	Description
1	C82904-07	1	Minuteman MicroVac includes HEPA filter and prefilter, disposable collector bags (10), and tool kit. (< 90 CFM unit)
2	829094	1	Cloth filter bag with frame
3	829849	3	Microvac Hose Assembly

The ALARA Center ordered twenty-two pairs of International Biomedical radiation reducing gloves made of tungsten and nine pairs of Proguard radiation reducing sleeves containing lead. They will be used to reduce worker extremity exposure in HB-Line. http://www.int-bio.com/productdisplay.php?menuimage=gloves.jpg&productcat=Surgical%20Gloves&subcat_id=6
<http://www.pnwx.com/Accessories/LeadProducts/Gloves/Proguard/>

Tank Farm Construction Engineering has been using the ALARA Center RPS MAC-21D to plan modifications to mount a MAC-21D on a skid for Pump Pit 5 supplemental ventilation.

The ALARA Center has samples of The Chill-Its Evaporative Cooling Towel, an excellent solution for temporary Heat Stress relief. While nothing abates heat stress better than removing the subject from the heat, and making sure proper hydration is observed, temporary relief is the main goal of this product:

1. The fiber base acts with “micro-cooling” capillary action, creating a constant evaporation and heat-sink source against warm skin.
2. The product is non-toxic, can be laundered multiple times, and never loses its ability to absorb and evaporate water.
3. Compared to “phase-change” materials that act similarly in various ambient conditions, the Chill-Its towel is considerably less expensive (\$10.50 each) and doesn’t lose its effectiveness.
4. The towel can be cut into various configurations to use like a scarf, head band or other applications.

The following products are approved for SRS use and are now store stocked:

Quest Quantumwear white, single use disposable coverall, front zipper, reinforced knees w/doffing and dosimeter straps and front chest pocket. Reinforced stitching w/bound seams. High particle hold-out, light splash protection (not waterproof) applications where heat stress is an issue. No hood or boot attached. 25/case. The hood is caption item number 32-24757.00 and the boot is 32-24758.00

SIZE	CAPTION ITEM NUMBER
XL	32-24752.00
2XL	32-24753.00
3XL	32-24754.00
4XL	32-24755.00
5XL	32-24756.00

Quest Barrierwear white, front zipper, w/attached hood and booties, reinforced stitching. Higher particle hold-out and better (medium) splash applications but not as good for heat stress compared against Quantumwear. No pockets or straps. 25/case.

SIZE	CAPTION ITEM NUMBER
XL	32-24759.00
2XL	32-24760.00
3XL	32-24761.00
4XL	32-24762.00
5XL	32-24763.00

Guard-Line Inc. 14 inch long stick welding glove, unlined palm, foam lined back, premium deer skin, reinforced thumb crotch, Kevlar stitched, leather pull patch. Product number IMN750. Medium: 32-24743.00. Large: 32-24744.00, X-Large: 32-24745.00

PIP Inc. MIG TIG welders glove, premium top grain pig skin, Kevlar stitched, unlined palm, straight thumb, pull tab, 4 inch full leather gauntlet cuff. Product number 75-320. Medium: 32-24746.00. Large: 32-24748.00, X-Large: 32-24749.00

AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT

The ALARA Center recommended the Desco 4.5 inch Floating Sander with attached dust shroud connected to a HEPA vacuum to remove contaminated rust and dirt from 55 gallon galvanized drum tops.

UPCOMING VENDOR VISITS

Comtronics Inc., 5/4/10, 704-L, 9 AM – 12 PM
Bartlett Nuclear, 5/5/10, 704-L, 9 AM – 12 PM

POINTS OF CONTACT

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