

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

OCTOBER 2009 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 ordered a Minuteman MRS 3 Vacuum System part number C83015-01 for pickup of liquid mercury and mercury contaminated particulate matter. The system incorporates a separator jar and Ultra-Low Penetration Filter (U.L.P.A.) filter for use in a radiologically contaminated environment. Minuteman is providing this system at no cost for display in the ALARA Center.

The Drager Panorama Nova Silicone P Full Face Respirator Replacement Integrated Project Team visited the Barr Group/Hagemeyer Augusta, GA facility on 10/22/09 and met with representatives from the following respirator manufacturers: 3M 6000 Series, Drager 5500 Series and 6500 Series, Sperian Survivair Opti-Fit S-Series.

The ALARA Center provided H-Area Radiological Protection Department Radiological Engineers with information and contacts concerning Flanders HEPA filters and SRS Ventilation and Filtration committee members. HEPA filters capable of handling approximately 4000 CFM of air are needed to filter make-up air inside a radiological containment surrounding an exhaust duct.

On 10/27 the Nilfisk Advance District Manager picked up the following loaned and no longer needed HEPA vacuum systems from the ALARA Center.

- VT60 Mercury HEPA Vacuum System
- Eliminator HEPA Vacuum System
- Eliminator II Wet/Dry HEPA Vacuum System
- CFM 125 HEPA Vacuum System

A Local small business, Peters Machine & Welding in Beech Island, SC, has met a site need by manufacturing a spring loaded mop handle that has not been available for approximately five years. The tool is used primarily by Radiological Protection Department inspectors to hold swipes when performing large area surveys and to hold a portable survey instrument probe when conducting direct probe surveys of floors or ground. Two purchase orders were recently released to meet the needs for both ARRA and the rest of the site. See picture below.



The ALARA Center ordered the following G/O Corp items for posting emergency radiological areas in the H-Area Tank Farm. www.gocorp.com

- Four Portable Posting Kits, part number GZ1952-N - 36"H x 23" dia. "X" frame base, Magenta and yellow belts, (kit includes four postings with carrying bag).

Personnel from the Savannah River National Lab (SRNL) contacted the ALARA Center searching for yellow tarps to tape on the floor during work in high contamination areas. The tarps are available through stores and Unitech can launder them through the same process as poly cotton coveralls. Stores caption items numbers 32-1307.00 (10 ft. X 10 ft.) and 32-1309.00 (5 ft. X 5 ft.) are yellow heat sealable grade nylon 200 denier fabric urethane coated (G.T. 2 oz/yd), fire retardant IAW NFPA 701 Large Scale, certified incinerable, waterproof, 2 inch wide velcro on both sides. Stores caption items numbers 32-1311.00 (10 ft. X 10 ft.) and 32-1312.00 (5 ft. X 5 ft.) are the same as above except they have ½ inch brass grommets spaced 2 feet apart along all four sides.

Personnel entries into H-Canyon Crane Maintenance require rubber overshoes that are being disposed after each use. Rather than using a launderable rubber overshoe the facility will start using disposable non-skid layflat rubber overshoes. The yellow overshoe fits shoes up to size 13. The orange overshoe fits shoe sizes 13 and above. Note that they are made of latex and should not be stored in locations exposed to direct overhead lighting, which will degrade the rubber overshoes just like latex rubber gloves.

http://www.frhamsafety.com/totes/disp_overshoe.htm



AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT

Roberto Mandanas with Cellular Bioengineering Inc. visited the site and met with ARRA and SRNL personnel to discuss using Decon Gel on D&D projects. A path forward was developed to address issues and concerns. www.decongel.com

The ALARA Center met with workers from the F-Area Depleted Uranium Oxide (DUO) project and provided the following products;

- Decon scrub pads and holder <http://www.gocorp.com/product.php?ID=5>
- Quest Quantumwear disposable coveralls and hoods/booties
- Nilfisk GM-80 HEPA Vacuum System (an ALARA Center replacement was ordered)
- Orex disposable single use skull caps

The ALARA Center ordered the following Nilfisk-Advance products for F-Area TRU Remediation work.

Part #	Qty	Description
01790190	3	GM80 GMPJ 110-120V W/O ACCESS
01710440	3	FILTER EXHAUST HEPA
11730410	3	Polyester Microfilter
01720515	3	Inlet Coupler 1.25"
81813200	60	Gray Plastic Hose 32 mm
01745900	6	Grey Hose Cuff 32 mm
11276901	3	3" Round Dust Brush

The NFS MAC-21D ventilation unit replacement stainless steel HEPA Filter Assembly is part number BF16. D&D is determining if it is more cost effective to replace the assembly rather than replacing the HEPA filter. 

D&D contacted the ALARA Center in need of the Operators Manual for the Coppus Vano Model 250 Blower. The manual is attached since it is commonly used at SRS.

UPCOMING VENDOR DEMONSTRATIONS

G/O Corp, 11/10/09, 766-H Room 2107, anytime 9 AM – 2 PM
Unitech Services, 11/11/09, 766-H Room 1002, anytime 9 AM – 1 PM

POINTS OF CONTACT

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