

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

JULY 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 FLUOR 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. This 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 assisted the F-Area Tank Farm Local Safety Improvement Team (LSIT) in ordering ten Bullard Isotherm Cool Vest. An LSIT team member toured the ALARA Center and looked at all heat stress items on display before field testing and purchasing the Bullard Isotherm Cool Vest. Positive feedback was obtained from the Savannah River National Laboratory (SRNL) personnel who have been using the vest for over one year. www.bullard.com/V3/products/body_temp_management/isotherm/

The ALARA Center was contacted by the Waste Isolation Pilot Plant (WIPP) Engineering and Technical Services Group who was looking for studies conducted on the Thermo Scientific EPD-Mk2 or the MPG2000. A 2001 MK2.3 study conducted by Battelle's Pacific Northwest Division Radiation and Health Technology Group was forwarded to the WIPP. Contact the ALARA Center to receive the report.

The ALARA Center supported the Saltstone Facility and the F-Area Tank Farm in procuring step-off pads (SOP's) for indoor and outdoor applications. They are made of 20" X 30" 140 mil non-skid rubber nitrile. The color design is yellow background with magenta print using ink suitable for outdoor environment, and two stop signs. The SOP with words "REMOVE ALL PROTECTIVE CLOTHING BEFORE STEPPING HERE" background is white and black print. A total of eighty-five SOP's with the following words were ordered. www.gocorp.com

- REMOVE SHOE COVERS BEFORE STEPPING HERE
- REMOVE OUTER SHOE COVERS BEFORE STEPPING HERE 
- REMOVE OUTER SHOE COVERS/GLOVES BEFORE STEPPING HERE
- REMOVE ALL OUTER PROTECTIVE CLOTHING BEFORE STEPPING HERE
- REMOVE ALL PROTECTIVE CLOTHING BEFORE STEPPING HERE 

The DOE Office of Health, Safety and Security (HSS) publishes a monthly Operating Experience Summary Report to exchange lessons learned information between DOE facilities. The web-site is www.hss.energy.gov/csa/analysis/oesummary/ Below are three DOE 2009 Operating Experience Summary Reports referencing specific articles to emphasize safety as it relates to power tools, electricity, and communication.

- www.hss.energy.gov/csa/analysis/oesummary/oesummary2009/OES_2009-03.pdf Preventing Power Tool Injuries (page 6)
- www.hss.energy.gov/csa/analysis/oesummary/oesummary2009/OES_2009-04.pdf Industry Arch Flash Event Results in Serious Burn Injuries (page 1)
- www.hss.energy.gov/csa/analysis/oesummary/oesummary2009/OES_2009-05.pdf Clear Communication - An Important Element of Worker Safety (page 5)

The ALARA Center ordered ten each of 20 inch and 32 inch long EZ Reachers at the request of the F-Area Tank Farm ALARA Coordinator as an ALARA initiative to reduce worker occupational radiation dose. http://ezeer-reachersupply.com/zencart/index.php?main_page=index&cPath=5&zenid=8b7956571a2e0a6fb62331a6d68ab194

The 2nd quarter Savannah River Site ALARA Committee meeting will be held on August 4th from 1-3 pm in 766-H room 1047.

The ALARA Center provided DWPF Radiological Protection Department management with information concerning the RadScan 800 Remote Gamma Imaging System for potential use as an ALARA initiative to reduce worker occupational radiation dose. The primary function of the RadScan is to provide color contour maps showing the distribution and intensity of radiation over a given scan area.

The ALARA Center ordered two cases of blue adhesive 36" X 36" Step off pads for Nuclear Material Storage Project support in C-Area to control removal of lead contamination. www.gocorp.com

ALARA Center personnel met with personnel from Liquid Waste, SRNL, and Sherwin Williams to discuss selecting a fixative for recoating Fixed Contamination Areas on tank farm tank concrete tank tops. Several products will be applied to concrete swatches and evaluated for effectiveness.

AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT

The ALARA Center provided D&D with a PowerPoint presentation to be reviewed by ARRA employees to familiarize them with the function and capabilities of the ALARA Center.

The ALARA Center provided D&D Operations with a variety of polyethylene disposable shoe covers needed for a specific job. The issue was potential rubber degradation for jobs with high nitric acid concentration.

The ALARA Center provided D&D Operations with information concerning a demister with 8 inch inlet and outlet and a stainless steel valve that would connect to a 5-gallon poly bottle to collect liquid.

The ALARA Center ordered the following Nilfisk GM-80 HEPA vacuum system and accessories for TRU Remediation Operations.

Part #	Description	Quantity
01790190	GM80 GMPJ 110-120V W/O ACCESS	2
01710440	Filter Exhaust HEPA	2
11730410	Polyester Microfilter	2
01720515	Inlet Coupler 1.25"	2
81813200	Gray Plastic Hose 32 mm	20 meters
01745900	Grey Hose Cuff 32 mm	6
11276901	3" Round Dust Brush	3

The ALARA Center provided assistance to D&D Operations in the selection of Comfortwear single use disposable coveralls to be worn under KleenGard A70 Chemical Spray coveralls in a heat stress environment. Thirty five cases were ordered.

A representative from NFRRPS was in the ALARA Center on July 21st. There was a high level of interest in containments from four groups working on ARRA initiatives.

VENDOR INFORMATION & DEMONSTRATIONS

Unitech Services provided the ALARA Center with a TempVest. This is a heat stress garment that utilizes the Adaptive Comfort technology originally developed by NASA to buffer temperature swings and help the user adapt to the surrounding activity and stay more comfortable. See attached. 

The ALARA Center received samples of the eSpin Technologies SimWypes cleaning cloth – a nontoxic, nonhazardous product for government, industrial or home use that traps dry dust, dirt and other particles inside as it moves across a surface. The cloth was originally created at the Y-12 National Security Complex to remove residual amounts of toxic beryllium oxide and beryllium particulate from solid surfaces without leaving a residue. Contact the ALARA Center if you are interested in evaluating this product.

Construction System Associated, Inc (CSA) offers PanoMap which is a software application that provides immediate access to laser scanning data, supports both review and modeling functions, and easily integrates with existing 3D CAD models. www.csaatl.com

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