

SRS ALARA CENTER (AC)

Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

NOVEMBER 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 IDEAS (Individuals Developing Effective Alternative Solutions) Program is an employee suggestion program implemented in November 1998 to stimulate employee participation in generating as many new IDEAS as possible that would benefit Savannah River Nuclear Solutions (SRNS) and its employees. Types of suggestions include safety, process improvement, cost-savings, and cost avoidance to ensure that SRNS maximizes accomplishments for the Department of Energy (DOE) customer. A “Quest for Radiological Excellence” promotion was held during the month of November 2009 to encourage IDEAS for radiological improvements. Thirty suggestions were accepted for review during the promotion. The cash prize winners and winning IDEAS are listed below.

- Raymond Lawson (Safeguard & Security Program Support), \$500 first place – Integration of S&S maintenance, operability testing, and performance tasks in radiologically controlled areas into a single work package/procedure executed at the same time to reduce personnel exposure.
- David Barnes (H-Canyon & F-Area Maintenance), \$300 second place – Relocate 211-H A-Line thermostats located thirty feet high in a Contamination Area to eliminate the need to build scaffolding thus reducing personnel exposure when checking heat trace.
- Linda Bush (F/H Area Laboratory Services), \$200 third place – Discard counted samples in the 772-1F Count Room rather than returning them to the lab of generation to reduce transport and handling of radioactive samples.

The SRS caption item number for the 5-gallon poly bottle used to collect radioactive liquids is 32-22542.00. Each bottle includes “Closure Instructions” and requires both a 70 mm cap and ¾ inch inner plug torque socket to ensure proper closure. A list of additional items needed is listed below.

- HEPA Filter, 32-4772.00
- HEPA Filter Adapter, 23-14197.65
- Tygon tubing, 23-18050.00
- Pinch clamp, 23-14197.60
- Hose clamp
- ½ inch drive torque wrench for 9 and 15 ft-lbs, 67-17.05 or equivalent
- Inner plug ½ inch drive torque socket, 32-22687.00
- 70 mm cap ½ inch drive torque socket, 32-22688.00

The 70 mm cap and inner plug are also store stocked in case replacements are needed. The 70 mm cap is 32-22689.00 and the inner plug is 32-22690.00. Below is a picture of the bottle.



5 gallon bottle (32-22542.00)

Lead blanket protective jackets made of OREX extreme material are now available from NFS. Part numbers CLWB13 (1'x3') and CLWB23 (2'x3') were provided to HTF.

The ALARA Center provided Spent Fuel Program in L-Area with three G/O Corp discontinued post mounted 20 ft. yellow and magenta retractable reel tapes at no cost. This type is in use in L-Area.

The ALARA Center provided six Kestrel 1000 Wind Meters to the Radiological Protection Department in HTF to be used to determine air velocities in accordance with WSRC Manual 5Q1.2 Procedure 496, *Radiological Containments*.

The ALARA Center provided Liquid Waste with a Nilfisk VT-60 Wet/Dry HEPA Vacuum System to remove concrete and water from the Effluent Treatment Facility Evaporator Sump due to a failed liner.

On 10/8/09 and 11/05/09 students from the Aiken Technical College Radiation Technology Program and Wade Miller, Program Coordinator, visited SRS and toured the following facilities; Internal Dosimetry, External Dosimetry, Instrument Calibration, ALARA Center, and Radiological Training/Mock-Up. There was also a question and answer session with representatives from management and a Radiological Protection Inspector (RPI).

The ALARA Center provided the Savannah River National Laboratory (SRNL) ALARA Coordinator with a 10 ft. X 10 ft. heat sealable grade nylon 200 denier fabric urethane coated (G.T. 2 oz/yd), fire retardant IAW NFPA 701 Large Scale, certified incinerable, waterproof, yellow tarp to evaluation prior to placing an order.

The ALARA Center ordered three Swing Gate Kits for FTF to use at radiological area entry points. Each kit consists of a base, pole, arm, single rope holder and centered sign holder. See picture below.



AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SUPPORT

The ALARA Center ordered twenty each of Unitech green and yellow HP belt bags for TRU Reprocessing Facility personnel.

Personnel from the F-Area Depleted Uranium Oxide (DUO) project and TRU Reprocessing Facility evaluated the Quest Quantumwear disposable coveralls with separate hoods/booties. Two cases each of sizes 2XL, 3XL, 4XL, and 5XL were ordered for the TRU Reprocessing Facility.

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

UPCOMING VENDOR DEMONSTRATIONS

Cold Jet Dry Ice Blasting, 12/9/09, 766-H Room 1040, anytime 12 PM – 2 PM

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