

SRS ALARA CENTER (AC)
Engineered Solutions for Radiological, Safety & Industrial Hygiene Applications.

NOVEMBER 2008 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 ALARA Center provided the Radiological Worker Permit (RWP) Task Team with information to order a new posting insert from Site Strategic Supplier Hagemeyer North America. The insert is part number INT201 and reads LAB COATS NOT ALLOWED.

The ALARA Center was contacted by Industrial Hygiene for assistance selecting paint to coat lead cylinder to protect workers from lead exposure. Sherwin Williams Macropoxy 646 with no primer was recommended. This paint has been used at SRS and the MSDS is in ShRINE. www.sherlink.com/sherlink/ImgServ?id=640125001.pdf&basePath=/user_projects/productionDomain/applications/sherwinApp/sherlink/temp/dp/

The ALARA Center provided FTF with specific information regarding NFS-Radiation Protection Services six, eight, ten, and 12 inch diameter In-Line Flow Indicators. Options are available to meet monitoring requirements. Below are available options.

- a simple magnehelic gauge (SCFM/inches of water)
- magnehelic gauge with lower and upper set points and horn and/or light alarm
- magnehelic gauge with lower and upper set points and horn and/or light alarm and wireless remote monitoring

Below is a picture of the eight inch diameter In-Line Flow Indicator on display in the ALARA Center.



On November 6, 2008 the ALARA Center and Glyn Luke with the Safety Department displayed the safety glove road show in support of the SRS Safety Fair in 766-H. An SRS Integrated Project Team has been formed to address safety glove improvement opportunities resulting from worker feedback compiled during the twelve glove road shows conducted at SRS.

Personnel from Safeguards, Security and Emergency Services visited the ALARA Center to evaluate the G/O Corp signs guaranteed for fifteen years against fading, chipping, peeling or cracking. They are available in a variety of sizes. Custom printing is also available. The original material is 0.214 inches thick but it is now in ProShield Lite (same material) that is 0.152 inches thick with the same guarantee but lower cost. www.gocorp.com/product.php?ID=117

The ALARA Center and personnel from MCU met with representatives from NFS-Radiation Protection Services to discuss options for temporary and permanent tanks shielding in the MCU process room. The ALARA Center also

provided MCU personnel with specific information concerning the use of Ecomass compound 1002ZD96 shielding material. www.ecomass.com

The ALARA Center provided F-Area Tank Farm with specific information concerning stainless steel spark arresting end fittings. A spark arrestor should be used during grinding and welding evolutions when local HEPA ventilation is provided. The spark arrestor will prevent sparks from igniting the HEPA filter. Below are NFS-Radiation Protection Services part numbers and a picture of the 8" diameter CR44 is on display in the ALARA Center.

Duct Diameter	Part Number
6	CR43
8	CR44
10	CR46
12	CR47



On November 10, 2008, Tony Umek, SRNS ESH&QA Director, and his staff toured the ALARA Center. On November 14 & 15, 2008, students from the Aiken Technical College "Radiation Protection Technology Program" toured the ALARA Center.

VENDOR INFORMATION & DEMONSTRATIONS

John Kremer with NFS-Radiation Protection Services was at SRS on Wednesday November 5, 2005 and taught a four hour course titled "Application of Portable Ventilation". Thirty-four people attended the course and all feedback was extremely positive concerning course content and John's presentation skills. The presentation should be added to the NFS-Radiation Protection Services web-site in early December. www.nfsrps.com

Roberto Mandanas from Cellular Bioengineering Inc. (CBI) was at SRS on Monday November 10, 2005 and presented PowerPoint slides of the latest radiological survey data using Decon Gel 1101, a one component, water based, broad application, peelable decontamination hydrogel that lifts, binds, and encapsulates contamination into a rehydratable polymer matrix. Decon Gel is now available in two sprayable versions and studies are being conducted to determine effectiveness on beryllium and lead. Ron Sykes also presented survey data from several jobs where Decon Gel was used in the SRS Defense Waste Processing Facility. Cellular Bioengineering Inc. provided the SRS Industrial Hygiene (IH) Program with Decon Gel proprietary component information resulting in IH approval for Decon Gel to be used in TRU glove box decontamination. The TRU glove box decontamination work has been placed on hold so the ALARA Center arranged for some of the Decon Gel to be used for the first time on the tank farms. Hopefully, data from the tank farms will be in the December activity report.

Stanelco has two new RF welders. The "RF Portable Welder" weighs just 16 pounds and has been designed as a machine to material unit which can be easily carried to different locations or to any level of a building. The "RF Stepper Welder" can produce seals of 3 feet and more. Innovative design re-positions tooling into a unique flat plate, which makes seals in a series of overlapping steps. The total length and degree of overlap can be changed by the customer. Further information is forthcoming concerning a demonstration at SRS.



600W RF Portable Welder



600W RF Stepper Welder

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