

SRS ALARA CENTER (AC) NOVEMBER 2007 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center website is posted at <http://irmsrv35.srs.gov/general/programs/alara/>
The internal SRS ALARA Center website is available in ShRINE at the ES&H 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

In December Ellen Parrish will assume the role of Radiological Protection Services (RPS) Self Assessment Program Coordinator and Radiological Work Permit (RWP) subject matter expert (SME). She will relocate to 730-1B, #2122 but will remain the Site ALARA Coordinator and support the ALARA Center on a part-time basis.

The ALARA Center is working with the F-Area Tank Farm Rad Engineer to design a shielded survey cave for counting smears in areas of elevated radiation background due to tank farm work. The portable cave will be transported using a fork lift. The ALARA Center is also promoting a shield booth for housing personal contamination monitors.

The ALARA Center provided assistance to the Solid Waste Management Facility in the selection and expedited procurement of Decon Gel 1101 to apply to a liquid radioactive material spill on a concrete pad. Decon Gel 1101 is a one-component water-based, broad application, peelable decontamination hydrogel that lifts, binds and encapsulates contamination into a rehydratable polymer matrix. The site MSDS for this chemical is 38502-1. Hopefully, next months report will include radiological survey results before and after application. Below is a picture of Decon Gel being removed from the backside of a tile.



The ALARA Center was asked to determine if there is a better plastic tape that could be used when bagging radiological items in and out of glove boxes. A variety of tape samples have been obtained and will be evaluated for potential use at SRS.

The ALARA Center demonstrated operation of the Dover Crimping System to F-Area TRU Operations personnel. The only drawback is the system requires that you use their proprietary polyethylene sleeving material. F-Area personnel liked the system but asked if the company would design clamps to use with existing PCV sleeving used at SRS. The company was contacted and they are not willing to design additional clamps.

www.ilcdover.com/products/pharm_biopharm/operations/doverpac.htm

The ALARA Center was contacted by the Rad Engineer from the Saltstone Facility asking for recommendations to (coat) paint bare concrete vault walls where contamination has been detected due to moisture penetration through the wall. The task is to fix the contamination in place without performing any surface preparation due to contamination. Below are four fixatives that were recommended.

- Instacote CC Fix www.instacote.com/products/ccfix.htm. Site MSDS# 38532-1.
- Bartlett PBS www.bartlettinc.com/sp.cfm?pageid=1760. Site MSDS# 35680-1.
- Sherwin Williams DTM Acrylic paint Product Number B66W111. Site MSDS# 35840-1 (extra white). It is available in many colors already assigned MSDS numbers. This product has been used on site many times before and was recommended by the Sherwin Williams Industrial Coating Representative. www.sherlink.com/sher-

link/ImgServ?id=640516332.pdf&basePath=/user_projects/productionDomain/applications/sherwinApp/sher-link/temp/dp/

- International Paint Company Poxy Coat II. Site MSDS# 38153-1 (white). The gray has been used in DWPF. I think the cost was about \$60 per gallon. Local supplier, Quality Plumbing Supply Co., is no longer in business so we will have to find closest distributor.
www.poxycoat.com

Samples of the Bartlett and Instacote CC Fix from the ALARA Center were provided to Saltstone for evaluation. Poxy Coat and DTM acrylic paint will be ordered.

WSRC Manual 5Q1.2, Procedure 203 *Handling Radiological Injuries, Contamination Cases, and Suspected Intakes, of Radioactive Material*, section 5.7, recommends the use of tape and/or fast wipes for personnel decontamination. The ALARA Center revised information in the Field Material Tracking System to clarify which fast wipes to use. It is Caption item number 17-478 which is the Go Jo's Industries towelettes. The description has been revised to read "waterless, disposable, individually wrapped fast wipes towels, may be used for personnel decontamination. 80 per pail, no substitute.

The ALARA Center was contacted by Rad Con First Line Manager in Liquid Waste looking for disposable waders that could be worn when cleaning slightly contaminated sediment from F-Area Retention Basin. Hagemeyer provided the ALARA Center with two styles of Stearn's chest waders that were deliver to Liquid Waste for evaluation.

The ALARA Center was asked by the F-Area Tank Farm Facility Manager to gather information concerning the Sprung Instant Structure for potential use over pump pits and diversion boxes. It is designed as a semi-permanent or permanent containment. It utilizes an aluminum substructure and fire resistant architectural membrane cover that takes 1-2 days to assemble and requires regular tools and specialty tools from Sprung. The smallest size available is 30' x 30'. The military is a major user of this type containment. www.sprung.com

Personnel working in TRU repacking operations in F-Area evaluated the HexArmor 5033 SteelLeather III gloves for potential use over glove box gloves when reprocessing TRU waste and determined that the cut resistance was not adequate.

The ALARA Center provided F-Area Operations with information on the Eletech SelfTalker IR Series Digital Sound Box. A pre-recorded message announcement is activated by a built-in motion sensor. This technology has been used at facility entrances to remind personnel that cell phones are not permitted in the area. www.eletech.com/Products/SelfTalker_Displays/IR/ir.htm



VENDOR INFORMATION AND VISITS

Ed Hribar with Minuteman Critical Filter Vacuums visited the ALARA Center on 11/08/07 to discuss their product line. Personnel from Liquid Waste and H-Completion were also present. Several vacuums may be loaned to the ALARA Center for evaluation and potential use at SRS. www.miinutemanintl.com

John Shannon with NFS visited the ALARA Center on 11/20/07 to discuss ventilation systems, containments, and shielding. Shielded booths and caves were discussed in detail with the F-Area Tank Farm Rad Engineer. www.nfsrps.com

Trip McGarity with Frham Safety Products will be in the ALARA Center on 12/04/07 from 10:00 AM to 1:00 PM. Frham specializes in protective clothing including OREX, contamination control, health physics supplies, and radiation protection as well as providing custom manufacturing and a full line of industrial safety equipment

POINT OF CONTACT

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