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SRS ALARA CENTER (AC) DECEMBER 2004 ACTIVITY REPORT

**We plan to see you at the SRS ALARA WORKSHOP in Augusta, GA
on May 2 - 4, 2005 at the Augusta Towers Hotel and Convention Center.**

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The ALARA Center webpage is in the process of being updated. Need information or radiological operation support, visit the website at www.srs.gov/general/enviro/rosc/index.html. And for the Fluor Hanford ALARA Center, visit their website at www.hanford.gov/alara/.

Industrial Safety display space in Room 1031 is being allocated to significant others. Be looking in the near future for a display of various products and applications.

The ALARA Center recommended a vendor for 1 foot by 4 foot lead blankets to be used by Solid Waste shielding a glove box.

The ALARA Center provided assistance to Defense Waste Processing Facility in job planning to remove glass build up in a bellows assembly. A needle gun will be used with a HEPA filtered vacuum system to minimize airborne activity.

Tritium is currently using the Helium bubble generator from the ALARA Center to perform air migration studies. The Helium bubbles are less likely to adversely affect alarms/monitors than conventional smoke generators.

The ALARA Center personnel continue to support training opportunities, most recently in Radiological Containment training here in H-area and Passive Aerosol Generator training in L-area.

The ALARA Center and Radiological Technical Services provided Special Projects in Spent Fuel with containment and ventilation support. The different type containment huts are being used to control contamination at the source when opening casks at the RBOF Cask Pad (080-13G).

The ALARA Center provided input to the proper 30 - 40 cfm HEPA filters to procure for use in glove bag mock ups used here in building 766-H. And, an input was provided to H-Canyon Operations on a NILFISK 3507 vacuum to be used to lift a sand type, radioactive material to a height in excess of 9 feet.

In order to eliminate each individual facility from having to manage a hazardous waste, Solid Waste is attempting to coordinate an effort to dispose of the remaining lead pigs that were used as a part of an antiquated beta counting systems in various Radiological Control count rooms. These beta counting system have for the most part been replaced by newer technologies.

NEW VENDOR INFORMATION AND VISITS

Spoke with Robert Walcheski (rwalcheski@uesi.com) at S.G. PINNEY [(772) 337-3080] about a two part UT15 coating used at Idaho National Lab in D&D of spent fuel pools. The coating can be applied underwater. Coating contains the carcinogen, MDA. The coating is marketed as part of a service and not as an individual product. Service has provided repairs of coatings at commercial nuclear plants and DOE facilities.

Spoke with Steve Martinson (smartinson@polestar.com) of POLESTAR. They have used BIODUR560 coating/fixative that can be applied underwater that does not contain the carcinogen MDA.

Spoke with R.L. MUSSMAN Corporation (www.RLMussman.com) on shielding for two transfer lines to Saltstone.

Todd Rockwood with EVEREST VIT (www.everestvit.com) visited the ALARA Center and placed a XL PRO VIDEO PROBE system on display. This is a portable and modular remote visual inspection system much like that used in the tank farms.

ALARA

The Site ALARA Committee met in December. The meeting focused on the 2005 ALARA Goals and included a tour of the ALARA Center. For additional ALARA information, visit the internal to SRS website at <http://shrine01.srs.gov/eshqa/shops/alara/>.

The Personal Protective Equipment Advisory Group met in December. The meeting focused on disposable coveralls and aprons, hand and finger protection, and defining work clothes.

HANFORD

- Want a cutting blade lubricant approved for use inside Plutonium glove boxes, see www.csunitec.com for PROLUBE.
- Want a fixative to control contamination spread, try "FixativeLP3". It can be applied like paint and is non-hazardous, non-flammable, and UV-ray resistant. It cures in an hour and is totally dry in 8 hours.
- FEVDI is a non-toxic, non-hazardous, contains no carcinogens fixative that dries to a hard shell coating. While the cost of FEVDI is greater than PBS of Bartlett Nuclear Services, workers applying the product will wear less protective clothing and the final product may have as good or better characteristics for D&D work.
- Lessons learned by Team Concepts Engineering during D&D at DOE sites include: 1) plasma arc cutting can be expensive to replace HEPA filter on vent systems; 2) apply a wetting agent over loose contamination before applying a fixative; and, 3) common foams expand 30 times its volume and stops expanding in 122 seconds. Team Concepts can be reached at (720) 929-0925.

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