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## SRS ALARA CENTER (AC) OCTOBER 2004 ACTIVITY REPORT

**The SRS ALARA WORKSHOP has been approved for May 2 - 4, 2005 at the Augusta Towers Hotel and Convention Center. Be looking in your mail for detailed information from the planning committee. We hope to see you in Augusta, GA next spring.**

### **ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS**

Need information or on site radiological operation support, visit the SRS ALARA Center website at <http://www.srs.gov/general/enviro/rosc/index.html>. Need information, visit the Fluor Hanford ALARA Center website at [www.hanford.gov/alara/](http://www.hanford.gov/alara/).

Assistance was provided to successfully transfer > \$750K worth of radiological equipment assets to Homeland Defense in Oak Ridge. And, assistance continues to be provided to disposition excess radiological equipment, radiological sources and radiological standards to the Federal Emergency Management Agency, National Disaster Medical System.

The ALARA Center provided support to Soil and Groundwater Closure Programs (SGCP) by assisting in the procurement of disposable personal protective equipment manufactured by G/O Corporation. SGCP plans to utilize disposable clothing while supporting work at R Reactor Seepage Basin. Heavy equipment will be cutting and grinding trees, brush, and leaf litter to put in compost piles.

CLAB was provided with information on Polymetric Barrier System (MSDS #21739-1). The Bartlett Services, Inc. ([www.bartlettinc.com](http://www.bartlettinc.com)) barrier is a non-toxic, water based solution to control interim dispersion of contaminated materials. Blue, white and clear 16 ounce samples are available in the Center.

The ALARA Center provided support to H-Tank Farm attempting to locate a more-or-less portable, stand alone carbon dioxide blasting machine for decontaminating a motor and agitator as it is being pulled from a high level waste tank. The use of the ALPHEUS portable unit from Spent Fuel was not thought to be appropriate. The motor and agitator may either be decontaminated through the use of a spray ring assembly as it is pulled or gently pulled then inserted in to near by tank with no decontamination.

Information from the Radiochemistry Society is available. Questions/Answers have been posted at their ASK THE EXPERT section at [http://www.radiochemistry.org/ask\\_expert/archives/index.html](http://www.radiochemistry.org/ask_expert/archives/index.html). Details of up coming events are posted at <http://www.radiochemistry.org/events.html>.

A tour of the ALARA Center has been added to the SRS ALARA training course for engineers. The feedback on the course has been positive from the student's perspective with the more esoteric material and practical applications in the field. Contact Bill Rigot for additional information.

The ALARA Center provided information regarding plastic chains used to post radiological areas and permanent markers for writing on tags outdoors. The results of a test conducted by Tritium Maintenance Operations at SRS concluded that the MARK-TEX Corporation, black, permanent ink, weather-resistant fiber-tipped pens performed the best.

The ALARA Center ordered 1.5 gram size bottles of LAB SAFETY ([www.ils.com](http://www.ils.com)) Flow Check Powder. The small bottle size makes it convenient for RADCON Inspectors to carry for verifying air flow directions.

The ALARA Center recommended and facilitated the order for the use of 15 pounds per square foot lead blankets from NFS/RPS. The shielding will be used to reduce exposures at the front of a glove box in Solid Waste. Also, the Center provided F Area B-Line with lead aprons manufactured by Penn Jersey X-Ray ([www.pjxray.com](http://www.pjxray.com)).

The ALARA Center provided H Area B-line with several items. Two NILFISK vacuum systems on display were taken for immediate in-field use, a GM80 to collect contaminated concrete chips/dust and a VT60 to collect mercury. Also, the Center recommended the use of the DESCO (www.descomfg.com) Electric FX Tool with dust collection system for removing contamination from a wall in H Area B-Line.

**NEW VENDOR INFORMATION AND VISITS**

John Shannon of NFS-RPS (www.nfsrps.com) visited and was available for questions/answers concerning ventilation equipment and the use of an in-line flow indicator.

Ty Finley of G/O Corporation (www.gocorp.com) visited and was available for questions/answers and sharing information on recent products, including PPE and a magnetic mounted swing gate.

**ALARA**

The ALARA Coordinators toured the ALARA Center as a part of their quarterly meeting.

**COMING EVENTS OF INTEREST**

- Todd Rockwell of Everest VIT (www.everestvit.com) to set up display of remote inspection equipment in November
- Ralph Brittelli of BNFL Instruments (www.bnflinstruments.com) will demonstrate the operation of the RADSCAN 800 4 pi Gamma Imager in H-Tank Farm for 9-November
- Plastic suit demonstration for 16-November
- Ensource Technologies demonstration of the Alcatel 802.11i Wireless Communication System tentatively scheduled for 17-November

**HANFORD**

Fluor Hanford plans to use a patented gel decontamination process, a gel mixing and spraying skid, and technical support for the cleanup of Plutonium contaminated glove boxes and vent hoods. The process works by spraying the surface to be decontaminated with the gel, which reacts with metals so that contaminants are leached out. The gel dries and becomes a powder than can be easily removed by vacuuming. No liquid waste is generated. The spray gun can be remotely operated using manipulators for cleaning up high radiation cells. The gel decontamination process may have applications.

For seeing through murky water in a fuel pool, Hanford recommended talking to Everest Visual Inspection Technologies who have infrared cameras that have a longer wave length than normal cameras and have had success in improving visibility in similar conditions.

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