

## **SRS ALARA CENTER (AC) AUGUST 2005 ACTIVITY REPORT**

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

The new and improved external SRS ALARA Center web site (<http://www.srs.gov/general/programs/alara>) has been posted. The internal web site will soon be posted.

The FLUOR Hanford ALARA Center website is available at [www.hanford.gov/alara/](http://www.hanford.gov/alara/).

Robbie Bates is being rotated on a part time basis to H-Tank Farm to support near term radiological work. The intent is to proactively move the technologies and engineering controls from the ALARA Center to field implementation in the reduction of overall radiological risk.

Personnel from the ALARA Center continue to be involved with planned and systemic actions to alleviate heat stress in the upcoming summer work. These include:

- Continued involvement with CLOSURE Business Unit Heat Stress Program, including participation in H-Tank Farm Heat Stress Prevention Fair.
- Provided information on Jenkins Comfort Systems to Site D&D.
- Provided Spent Fuels with three Jenkins Comfort Systems Eliminator vest and two Shafer Enterprises Ponchos to reduce potential for heat stress.
- Cool Shirts were used in support of the LM-75 mock-up on a category V day in the parking lot of 766-H. The shirts are tethered and provide continuous cooling.
- The ALARA Center ordered a portable Outdoor Misting Fan System for F-Tank Farm.

RADCON Annual Training for 2005 continues to include an overview of the DOE ALARA Centers and a review of the available equipment. The intent is to expand the use of engineering controls in the conduct of radiological work to minimize waste and reduce overall risk, occupational exposures and costs.

The ALARA Center has been working with G/O CORP ([www.gocorp.com](http://www.gocorp.com)) on several issues. These include:

- Obtain a sample of a step off pad with the words, "REMOVE OUTER PROTECTIVE CLOTHING BEFORE STEPPING HERE".
- Received an INSTA-BARRIER stanchion for display. The stanchion has a retractable reel of 13 feet of yellow/magenta barrier tape that makes it possible to quickly establish a radiological barrier. The stanchion is available with a heavy duty 20 pound base for indoor/outdoor applications.
- Personnel modified a stanchion with motion activated strobe light by adding a motion activated self talker. This is ideal for "visually and audibly" alerting personnel to hazards.

The ALARA Center provided assistance to the field on NILFISK ([www.panilfisk-advance.com](http://www.panilfisk-advance.com)) industrial vacuum equipment. An attachment to a GM-625 HEPA vacuum was provided to D&D to contain dust from a floor shaving operation. A GM-80 HEPA vacuum was provided to Solid Waste to ventilate a small containment. And, information the GM-80 was provided for the same use to Saltstone Project Engineering.

Soil and Ground Water Closure Projects had an off-site vendor demonstrate the use of the TECXTRAC RADPRO as a chemical to decontaminate a track from a bulldozer that was used in a remediation effort. In the three attempts made to extract contaminants, the contamination levels dropped by 55%. Each attempt required a level of manual labor (i.e., brushing) that would incur cost more than replacement of the contaminated part.

The ALARA Center provided information to HB-Line on the potential use of the Passive Aerosol Generator to “fog” a glove box. The encapsulate “fog” prevents resuspension of contaminants.

The ALARA Center provided personnel in FB-Line with information regarding POXY COAT II, paint ([www.poxycoat.com](http://www.poxycoat.com)) used at SRS to successfully fix contamination.

The ALARA Center submitted a purchase requisition for OREX ([www.orex.com](http://www.orex.com)) disposable coveralls for pilot testing in H-Area Tank Farm and F-Area Tank Farm.

The ALARA Center provided D&D personnel with information regarding the TRAV-L Cutter ([www.wachSCO.com](http://www.wachSCO.com)).

The ALARA Center provided an E-Z REACHER to DWPF to allow a worker to remotely retrieve material inside a hazardous area and ordered other E-Z REACHERS for use in the Tritium Extraction Facility. Also, personnel from the ALARA Center walked down Tritium Extraction Facility.

## **NEW VENDOR INFORMATION AND VISITS**

Clay Miller of E.D. Bullard, Company demonstrated the operation of the PA30 series powered air purifying respirators (PAPR) for SRS. The product is reported to have more power in the battery pack providing a better air flow and overall more comfort to the worker. The Bullard PAPRs are being considered for use in Solid Waste, especially if the assigned protection factor is 1000. The PAPR is being considered for use in Fluor Hanford.

GLACIER TEK provided three Cool Vests ([www.coolvest.com](http://www.coolvest.com)) to the ALARA Center for display. The Cool Vest uses non-toxic, biodegradable phase change material that freezes at a cool but not cold 59 degrees F.

Trip McGarity of FRHAM SAFETY PRODUCTS ([www.fhramsafety.com](http://www.fhramsafety.com)) and Brad Lovendale of RADeCO demonstrated the operation of their air sampling equipment at the August meeting of the Health Physics Technical Advisory Group.

DIE QUIP CORP ([www.diequip.com](http://www.diequip.com)) provided the ALARA Center with literature for the KNIPEX Ratcheting Cable Cutter (KN953-11) for potentially cutting bag out PVC pigtail rather than pruning shears.

## **TOPICAL VENDOR DEMONSTRATIONS IN THE FUTURE**

Canberra is hosting a Savannah River Site Seminar in Augusta on 13-September to give users a better understanding of the latest Canberra products and services available (see the attached flyer).

## **LESSONS LEARNED FROM HANFORD AND OTHERS**

Need ultrasonic equipment, look at Krautkramer-Branson ([www.geinspectiontechnologies.com](http://www.geinspectiontechnologies.com)).

Some of the Idaho National Laboratory containments tents (huts) are constructed with sewn seams and not heat sealed. Unknowingly, contamination collected in a sewn floor seam in an outdoor tent and became inaccessible for decontamination. As the tent was being dismantled, a rain storm deposited some water in the tent, which then carried the contamination out of the seam.

## **POINTS OF CONTACT**

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