

## **SRS ALARA CENTER (AC) SEPTEMBER 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 follow. A hot link to a FilemakerPro database is provided on the existing internal web site under the ALARA Center, **NEW ! Site PPE Shop**. The database describes personal protective and safety equipment available at SRS.

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

Personnel from the ALARA Center continue to support near term radiological work in H-Tank Farm. The intent is to transfer the technologies and engineering controls from the ALARA Center to field implementation in the reduction of overall radiological risk.

RADCON Annual Training for 2005 continues to include an overview of the DOE ALARA Centers and a review of the available equipment and technologies. The feedback received from the field is important in the expanded use of engineering controls. As a result of the training, the distribution of the activity reports now includes RPD\_FLSs and RPD\_RCI (both from UDDLs on lotus notes).

The ALARA Center provided assistance to FB-Line on replacing amplifiers in the Passive Aerosol Generator (PAG). The generator will be used to “fog” a glove box to prevent the resuspension of contaminants. Also, input was provided to a DRAFT maintenance procedure titled “Operation of the PAG”.

The ALARA Center provided information on the MARCRIST Concrete Floor Shaver and PENTEC vacuum system to Construction. This included a video of a previous demonstration of the equipment capabilities. The shaver can remove 0.75 inches of concrete on a single pass.

Radiological Engineering was provided with filter specifications for the NILFISK GM-80 vacuum system to conduct modeling for design computer code calculations. Several of these vacuums systems have recently been delivered from the ALARA Center for the HEPA Filter Test Group to test.

The ALARA Center provided to Closure – Waste Solidification information on BARLETT SERVICES, STRIPCOAT TLC FREE for work in several applications including contaminated cell covers. STRIPCOAT can be used to protect surfaces from becoming contaminated as well as removing contamination previously deposited on surfaces.

H-Tank Farm is attempting to survey and release scaffolding. The conveyerized waste monitor in crane maintenance area of building 105-C was historically used as a part of the process to survey hand tools from reactor areas. The monitor was also intended to be used in the survey of scaffolding.

The ALARA Center is providing assistance to Liquid Waste Disposition to cut jumpers and jets (pipe and solid bar stack). Items being considered fit as attachments to BROKK remote demolition machines ([tmrLOW@brokkinc.com](mailto:tmrLOW@brokkinc.com)) include EH WACHS ([www.wachsco.com](http://www.wachsco.com)) auto clamp and feed guillotine saws and MEGA-TECH blade plunge cutters.

The ALARA Center is again attempting to assist Homeland Security locate excess equipment that would be useful for their program. Equipment includes radiological detection, personal protective, and safety equipment.

The ALARA Center provided FDD with a NILFISK VT60 and a GM625 vacuum system for D&D activities in M-area and 247-F work. The systems were taken from the ALARA Center displays in order to expedite work.

## **NEW VENDOR INFORMATION AND VISITS**

Canberra hosted the Savannah River Site Seminar at the Radisson Hotel in Augusta on 13-September. The seminar gave the approximately 50 attendees a review of in situ object counting applications at SRS and a better understanding of the latest Canberra products and services.

ISA CORPORATION ([www.isacorporation.net](http://www.isacorporation.net)) forwarded information and samples of their anti-C gloves to the ALARA Center.

John Shannon of NFS-RPS ([nfsrps.com](http://nfsrps.com)) visited the site to discuss ventilation, containments and shielding as an engineering control.

## **TOPICAL VENDOR DEMONSTRATIONS PLANNED FOR OCTOBER**

- NILFISK-ADVANCE HEPA Vacuum Systems
- EH WACHS, Cutting Tools
- ICM International Cutting Machines

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

The Milwaukee 6190-20 dry-cut (aka, "cold") technology cuts on average of three times faster than an abrasive machine and costs 1-1/2 times less to operate. The saw produces little to no sparks when cutting and leaves a virtually burr-free finish. The motor is 15 amps, 4.8 maximum horse power. The base is a heavy-duty cast aluminum reinforced with a 1/4 inch steel plate. The horizontal D-handle provides optimum comfort whether the tool is on the ground or sitting on a bench.

Hanford has been leasing a hotsy pressure washer ([www.cbhotsy.com](http://www.cbhotsy.com)) to decontaminate equipment and reports are that it is working well. Three detergents have been approved for use. **RIPPER I** is a degreasing detergent which is effective on off-road and grease-clogged equipment, tractor-trailers, and general vehicles. It is also used for cleaning shop floors and walls. **CARBON-ATE** works in hot or cold water as a great degreasing detergent for engines, parts cleaning, hard-to-clean vehicles, road film, as well as food and grease build-up. It is also used on polished aluminum. **ENVIRO-CLEAN** is a phosphate free detergent that's safe for all kinds of cleaning, works on aluminum as well as having the cleaning power of a highly concentrated degreaser.

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