

SRS ALARA CENTER (AC) OCTOBER 2005 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

The external SRS ALARA Center web site is posted at <http://www.srs.gov/general/programs/alara> . The internal web site has been moved and links there, too. A hot link to the FilemakerPro PPE database has been moved “from” the internal web site “to” the ALARA Programs – Safety web site on ShRINE. The “**New**” **PPE 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 .

Our thanks to Al Goodwyn for the latest revision of the DOE ALARA Center logo (see attached). Los Alamos National Lab has been added.

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_FLSSs and RPD_RCIs (both from UDDLs on lotus notes).

The ALARA Center provided assistance to Solid Waste on replacing a pump in the Passive Aerosol Generator (www.fogging.com). Solid Waste used the generator to fog a glove box in E-Area.

The ALARA Center provided assistance to D&D in the efforts to remove 800 series underground waste tanks in F-Area. LANCS Industries (www.lancsindcom) and the Containment Fabrication Facility were contacted to gather information for a containment that would be used during the tank cleaning and dismantling.

H-Tank Farm continues to attempt to survey and release scaffolding. The conveyerized waste monitor in C-Area was to be used as a part of a controlled process to release hand tools and scaffolding.

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.

To support radiological work, a NILFISK VT-60 HEPA vacuum system was provided to DWPF from the ALARA Center. Also, a Compact Back Vacuum System was ordered from NILFISK (www.pa.nilfisk-advance.com).

The ALARA Center provided H-Area with a Citadel Technologies (www.cittech.com) Diamond Wrap Engineering Assessment form for potential pipe repair applications. The patent pending “Diamond Line Pipe Repair System” has a tensile strength of 275,000 psi which is ideal for the repair of pressure pipes and tanks.

The Personal Protective Equipment (PPE) Advisory Group met to discuss site related issues regarding PPE. Agenda items included the group’s charter and membership, OREX pilot feedback, coveralls and RWPs, TITAN Tritium suits distributed by UNITECH and ISA CORP rubber gloves.

NEW VENDOR INFORMATION AND VISITS

Interested in seeing a BROKK Demolition Machine in action, go to [www.http://www.brokkinc.com/](http://www.brokkinc.com/) .

Interested in a heavy-duty vacuum cleaner with more suction, go to <http://www.ruwac.com/> .

Bill Pence and Jeff Swiatowy of EH WACHS Company (www.wachsco.com) conducted a cold cutting tool seminar in 704-56H for Tank Farm personnel who are interested in using a guillotine saw.

Jim Shimeall with SAFETY-VAC (www.safetyvac.com) provided the ALARA Center with literature and a DVD on liquid spill recovery/containment systems.

Larry Miller with ZADA TECHNOLOGIES provided the ALARA Center with gammablok lead free shielding samples.

TRANSCO PRODUCTS is been involved with a company that manufactures a carbon fiber product used for structural and mechanical upgrades to concrete and steel. For most applications, the carbon fiber is a woven product bonded with resins. It is installed on deteriorated concrete to restore the structural capacity to better-than-original. It can also be used on structural steel for the same purposes. In one variation, it has explosive blast resistant properties, which make it ideal for homeland security upgrades to critical facilities and/or equipment. The website for the material is www.HJ3.com .

TOPICAL VENDOR DEMONSTRATIONS PLANNED FOR NOVEMBER

NILFISK-ADVANCE HEPA Vacuum Systems

LESSONS LEARNED FROM HANFORD AND OTHERS

Vendor at Hanford used an INTELAGARD SPRAYER to apply chemicals to the contaminated concrete floor of a building. The chemicals soaked into the concrete and floated the contamination to the surface where it was vacuumed up about an hour later. Readings on the floor were up to 30,000 dpm/100cm² before decontamination. The floor was released from radiological controls after a second application of foam. Vendor contact is EAI at www.eai-inc.com.

Plasma Arc cutting is a popular technique to considered when planning a job that requires extensive metal cutting. It is simple for the worker and the torches, gas and hoses are inexpensive. But, plasma arc cutting is not simple for IH & RADCON personnel. Molten material removed during the cutting process becomes airborne and can travel hundreds of feet. High levels of nitrous oxide, carbon monoxide and ozone will be present that cause worker headaches, if breathed. During D&D work, the air sucked into the ducting can be very hot and contain sparks. It is essential the ducting be made from metal and contains a spark arrester to remove sparks that could set pre-filters, non-metal ducting, and HEPA filters on fire. You should note the number and airflow of the portable units described in this lessons learned. It takes a lot to remove the airborne debris from the air.

The Encapsulation Technology, Passive Aerosol Generator limits contaminate mobility. Hanford and CH2M Hill are using a WESTECH CORP industrial adhesive spray to fix contaminates, see www.ok2spray.com .

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