

SRS ALARA CENTER (AC) JULY 2005 ACTIVITY REPORT

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

Be looking in the near future for the new and improved SRS ALARA Center web site. Current information is available on the internal web address at www.srs.gov/general/enviro/rosc/index.html and the external web address is at <http://www.srs.gov/general/programs/alara>.

The FLUOR Hanford ALARA Center website is available at www.hanford.gov/alara/.

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

- Participation in two Heat Stress Prevention Fairs, one in ETP and one in Spent Fuels 704-L.
- Another such fair is scheduled in the near future for H-Tank Farm.
- Training was conducted for H-Tank Farm personnel in the use of the Jenkins Comfort Eliminator vests.
- Shared information with TETRA TECH, a WSRC subcontractor.

RADCON Annual Training for 2005 includes an overview of the DOE ALARA Centers and a review of the available equipment in rooms 1027 and 1031. The intent is to expand the use of engineering controls in the conduct of radiological work across the site to minimize waste and reduce overall risk, occupational exposures and costs. This training is given to all RADCON Inspector and RADCON First Line personnel and potentially stretch into the first of October timeframe.

The ALARA Center provided Soil & Groundwater Closure Project personnel with information regarding Environmental Alternatives TECHXTRACT RADPRO chemical extraction process (www.eai-inc.com) to decontaminate tracks on large construction equipment. Hydro lasing and other decontamination methods previously tried have been unsuccessful.

The ALARA Center provided DWPF personnel with information on GLYGEL, a decontamination process that works by chemically etching away a layer of the contaminated metal surface. An agent is needed to decontaminate the tubes of a manipulator.

The ALARA Center provided Industrial Hygiene with literature and samples of ECOMASS, a high density composite material (www.ecomass.com) used as an alternative to lead in shielding and counter balance weight applications. ECOMASS is non-hazardous, non-toxic material available in pellets, injection molded and compression molded parts, and extruded film and sheets.

Personnel in the Tritium Extraction Facility were shown various items for potential use in the new facility. These included pebble finish step off pads, stanchions with strobe light activated by a motion detector, and Flowchecker Powder.

The ALARA Center ordered two NILFISK GM-80 vacuum systems www.pa.nilfisk-advance.com, one for the SRS HEPA Filter Testing Group as a replacement.

With earlier training from the ALARA Center, an F-area deactivation team operated the Passive Aerosol Generator and successfully introduced a "fog" into the FB-Line Filtrate Cabinet. The generator operated for 3 hours and applied a gallon of ETGS Invisible Blue solution. The encapsulate "fog" prevents resuspension of contaminants. The machine was successfully cleared out of the Contamination Area.

The ALARA Center provided information to F Area B-Line personnel regarding POXY COAT II www.poxycoat.com. POXY COAT II is an enamel paint that can be used to cover fixed contamination on concrete floors.

NEW VENDOR INFORMATION AND VISITS

Scott Maxwell of Die Quip Corp (www.diequip.com) visited the site and demonstrated their line of KRENN cutters for size reduction work inside of glove boxes (see attached). The portable equipment will cut pipe/wire up to 1.25 inches in diameter.

Patrick Shay from MCS Industrial Supply visited to share copies of their 2004/2005 catalog.

TOPICAL VENDOR DEMONSTRATIONS IN THE FUTURE

- NILFISK-ADVANCE VACUUM SYSTEMS in August

LESSONS LEARNED FROM HANFORD AND OTHERS

DOE Operating Summary 2005-10 has an article on a heat stress incident and the actions needed to prevent heat stress when workers wear protective clothing in hot environments. The article includes a Heat Index Chart to show the combined effect of humidity and temperature, a listing of heat ailments, and how workers can "work defensively to protect themselves from heat stress". Operating Summary 2005-10 can be found at: <http://www.eh.doe.gov/paa/oesummary/oesummary2005.html>

Rocky Flats is nearing closure. There are several information fact sheets on their <http://www.rfets.gov/doe/> website concerning the tools, equipment, and technology that has used. The fact sheets cover topics about plasma arc cutting, polyurea coatings, hydro lasing, size-reduction techniques, glove box decontamination, groundwater operations, and many others.

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