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SRS ALARA CENTER (AC) NOVEMBER 2004 ACTIVITY REPORT

**We plan to see you at the SRS ALARA WORKSHOP in Augusta, GA
on May 2 - 4, 2005 at the Augusta Towers Hotel and Convention Center.**

ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS

Need information or radiological operation support, visit the SRS ALARA Center website at www.srs.gov/general/enviro/rosc/index.html. Need information, visit the Fluor Hanford ALARA Center website at www.hanford.gov/alara/.

At the request of Site D&D, John Stouky of MEGATECH SERVICES demonstrated the operation of the blade plunging cutter (BPC- 4HD) in M-area. Pieces of the over head piping to be removed were cut during the demonstration (see the attached photograph). The tool was considered and is currently being used for this specific application because work space is too confined for a port-a-band saw.

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. Reusing the equipment for its intended purpose is a cost savings as it avoids waste.

Guidance will be issued to RADCON offices shortly as to disposition of lead pigs that are not to be reused. Those lead pigs will be handled as an aggregate by Solid Waste.

The ALARA Center assisted Spent Fuels in a demonstration of the capabilities of the Passive Aerosol Generator. The demonstration was geared towards containing (making less mobile) contamination on activated metals being disposed of from the 105-L Disassembly Basin starting in January. The generator showed success in containing contamination in a clean mockup exercise (see the attached documentation).

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 was eventually decontaminated less aggressively with a water rinse/spray assembly as it was pulled then immediately inserted in a near by tank.

John Shannon of NFS-RPS (www.nfsrps.com) provided information in support of the caustic solvent extraction process.

Along with the Procurement and Industrial Hygiene Departments, the ALARA Center sponsored a demonstration of FRHAM SAFETY PRODUCTS (www.frhamsafety.com) Delta Protection Air Supplied Plastic Suit. The use of the plastic suit is being considered for various site wide applications. Other safety items offered by FRHAM were also on display.

Along with the Procurement Department, the ALARA Center sponsored a demonstrated of the ALCATEL Wireless Communication System by ENSOURCE INC (www.ensource.net) and ALCATEL Government Solutions (www.alcatel.com). The system has applications in warehouse telephone communications and networking in FB Line. The system is FIPS 140.2 certified.

Ralph Brittelli of BNFL INSTRUMENTS (www.bnflinstruments.com) demonstrated the operation of the RADSCAN 800 4 pi Gamma Imager. The imager remotely locates and efficiently characterizes gamma hot spots in a wide variety of environments including building surfaces, cells, and in/on glove boxes and process vessels. The instruments map and record the distributions and intensities of measured radiation using dosimetric data and real time images viewed at a distance.

The ALARA Center also provided:

- Information to Tritium personnel on packaging beryllium contaminated rods for disposal. Packaging to consider was simply roll stock plastic sleeve materials, available in a variety of widths.
- Field tests of three types of nylon threaded shrink wrap. Neither performed to the level expected.
- An input on 30 - 40 cfm glove bag filters for installation on training mock ups.
- To CLAB, recent ALARA Center experience on the durability of the Bartlett on poly metric barrier system (PBS) coating.
- And to DWPF, clear PBS was used to fix contamination in a lab fume hood.
- To Naval Fuels, bottles for collection of mercury with the NILFISK mercury vacuum.
- To HB Line, information on RADISHIELD shielding and the Makita 18-volt cordless saw to cut small items inside a glove box.
- To SGCP, H-Canyon and H-Tank Farm, G/O disposable coveralls for evaluation.

NEW VENDOR INFORMATION AND VISITS

Todd Rockwell of EVEREST VISUAL INSPECTION TECHNOLOGIES (www.everestvit.com) set up a display of remote inspection equipment in the ALARA Center. For seeing through murky water in a fuel pool, Hanford in the past has recommended talking to EVEREST whose infrared cameras have had success in improving visibility in similar conditions.

ALARA

The 2004 Radiological Improvement Strategic Plan was approved and is available on the ALARA website on ShRINE. The plan identifies key strategies for safely improving the radiation protection program and enhancing cost effectiveness. The key strategies include:

- Radiological Engineering
- Radiation and Contamination Control Training
- Optimization of Radiological Operations
- Radiological Control Staffing
- Deactivation and Decommissioning

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- Want help on fixatives, foam and engineering controls for demolishing radioactive facilities, see reports at <http://graylit.osti.gov/cgi-bin/dexpld.cgi?gry2035570950;89> .
- Testing concentrations (100%, 60/40% and 50/50%) of PBS to water for sealing glove boxes prior to size reduction, a portable sprayer with full strength 100% PBS solution sealed the best.

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