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SRS ALARA CENTER (AC) SEPTEMBER 2004 ACIVITY REPORT

The ALARA Center extends a special thanks to Al Goodwyn for his input on the logo (see attached). Logo promotes work all across the DOE complex especially at Hanford and Savannah River in the use of engineering controls in the conduct of radiological work.

ASSISTANCE, DEMONSTRATIONS, RESEARCH AND TOURS

Need radiological operation support, visit the website (<http://www.srs.gov/general/enviro/rosc/index.html>).

Assistance continues to be provided to several site efforts to dispose of radiological sources and standards and to disposition excess radiological equipment to Oak Ridge and miscellaneous Homeland Security opportunities.

Provided the TRUTECH NUCUT video to Solid Waste for possible use in LANL related work. The video was made during a recent visit by Mike Douglas of TRUTECH (www.trutechllc.com), who provide engineering support to D&D activities. The NUCUT tool is a battery powered and uses a safer three bladed cutting head to strip pipe and conduit from buildings and structures prior to heavy demolition.

The ALARA Center continues to support operations by facilitating orders from vendors. Most recently:

- NFS-RPS metal containment building for CLAB and Safety and Health Project Services.
- NFS-RPS (www.nfsrps.com) lead blankets for Solid Waste.
- NILFISK vacuum systems of varying sizes and functions for support of future H-Tank Farm work.
- Cooling vests compliant with NFPA 70E flash arc requirements for site wide applications.
- Disposable protective clothing samples (OREX, G/O, VALLEN and TYVEK) to be used in the conduct of remediation work R-area seepage basin.

The ALARA Center provided points of contact for 1) Building Debris Roll-Off Liner containments and Super Sack packages for Environmental Restoration, 2) high density shielding materials [other than lead] for Spent Fuel Project; and, 3) disposition and potential reuse of radiation monitoring equipment [saving waste] for Spent Fuel Project.

D&D Operations Support was provided. The explosion proof 400 cubic feet per minute (MAC21) HEPA filtration unit on display in the ALARA Center was taken to the field to accommodate immediate work. Another unit will be ordered from NFS-RPS as a replacement. Also, a NILFIK GM-625 vacuum system was taken to the field.

D&D Operations Support was provided with a point of contact at WACHS tools (www.wachsco.com). A tool is needed to expeditiously cut "bollards" (upright steel piping back filled with concrete, used to protect other necessary services such as fire hydrants, electrical transformers and above ground gas storage tanks) at or near ground level.

CLAB support was provided with information on polymetric barrier system (MSDS #21739-1), the Bartlett Services, Inc. (www.bartlettinc.com) non-toxic, water based solution to control interim dispersion of contaminated materials.

Assistance continues to provide to the Heat Stress Team on PPE and other equipment pertinent to on site heat stress problems and initiatives. Recent meetings identified pros/cons of heat stress PPE/equipment used. The ALARA Center will review feedback to make preparations for next year's heat stress environments before it is too late to order new equipment that has a long delivery time.

The ALARA Center has available for use the SAIM BUBBLE GENERATOR (Sage Action, INC). The generator is a compact tool for producing helium-filled, neutrally buoyant bubbles of a controlled size for visualizing airflow patterns.

NEW VENDOR INFORMATION, EQUIPMENT AND VISITS

Ty Finley of G/O Corporation (www.gocorp.com) visited to offer various samples to the ALARA Center including PPE. Feedback from the field was provided that the room warning light might function better if actuated by a motion detector.

The students in the recent ALARA course for engineers visited the center. The visit provided a great opportunity for the class to see and reach out and touch some of the innovative engineered solutions on display in the ALARA Center.

ALARA

The assessment of Manual 5Q1.1, Procedure 505, "ALARA Review" was completed. The purpose was to ensure compliance. Lines of Inquiry (LOIs) were developed with emphasis on procedure requirements and job planning practices. Facility ALARA Coordinators addressed each LOI as it pertained to their facility. Assessment results indicated:

- ALARA Coordinators are fully involved in the work planning/decision-making process.
- ALARA Coordinators assists in the preparation of Pre/Post-Job ALARA Reviews.
- ALARA reviews are performed for jobs that involve actual or anticipated work in areas of airborne radioactivity in excess of 10,000 DAC, when applicable.
- Asterisked items are commented on in the Pre-Job ALARA Review, but not in sufficient detail.
- Field RADCON Engineer involvement is not documented in the work package.

Procedure 5Q1.1-505 will be revised to address deficiencies identified.

COMING EVENTS OF INTEREST

NFS/RPS - John Shannon available for questions and answers on all products on 12-October
EVEREST VIT - Display set up and demonstration to limited, user audience on 14-October

HANFORD

Radiological Engineering and Hanford ALARA Center personnel have discussed fixatives that could be used to fix alpha and beta-gamma contamination on old waste containers, which are presently located in a burial trench. Plan is to evaluate use of Polymeric Barrier System (PBS), CC-Wet, CC-Fix, aerosol fogging, and spraying with polyurea.

Points of Contact

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