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**SRS ALARA Center (AC)
August 2004 Activity Report**

Much has been accomplished in moving the operation support activities from building 315-M to the more site centralized confines of building 766-H. Look for the ALARA Center displays in rooms 1027 and 1031 and offices in room 2126.

Assistance, Demonstrations, Research and Tours

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

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

A second Passive Aerosol Generator was ordered from Generator Set Aside Funds for SRS use. With replaced transducers, the first generator continues to receive extensive site wide use in E, F and H-areas.

Information was provided to Mike Benjamin of CHEM Nuclear System, LLC on testing of vacuum systems with HEPA filters.

The ALARA Center is completing arrangements to move the rapid granulator and glove box previously provided from Los Alamos to Solid Waste in E-area. The original intent of the equipment is to volume reduce TRU waste potentially savings millions of dollars.

Citadel Technologies (www.cittech.com) demonstrated the Diamond Wrap pipe repair back in July. The pipe repairs performed satisfactorily during hydrostatic testing (see attached report). As a follow-up after the report, the 4 inch diameter elbow repaired assembly was sent to the High Pressure Test Lab. The witnessed hydrostatic pressure reached 2001 pounds per square inch before any leakage occurred. The leak was determined to have occurred in a Swagelok test fitting and was unrelated to the repaired assembly.

Points of contact at SRS for excess lead bricks and sheet lead to be used for shielding for nondestructive assay system were provided to Solid Waste in E-area.

F-area Closure Project was supported with an ALARA Center "road show" as part of the BBS Safety Science Fair. And, a 5-gallon container of BARLETT PBS was provided to facilitate immediate work.

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

- TRUTECH NUCUT (www.trutechllc.com) cutter and accessories for FB-Line to volume reduce ladders and tube lock for disposal.
- DESCO clean and strip cutter hub for the walk behind DESCOBRADER to remove rust and contamination from twenty one inch thick steel sheets (4' by 8').
- A ten gallon kit of Sherwin Williams ENVIROLASTIC brush grade for H-Area Canyon.
- Three NFS-RPS 15 pounds per square foot lead blankets and one 24 inch by 48 inch 10 millimeters thick piece of LEAD-X (vinyl lead) for shielding application.
- Paper catch bags for the NILFISK GM-625 vacuum system for D&D.

New Vendor Information, Equipment and Visits

A pollution prevention audit team of EPA and SCDHEC personnel visited SRS. The team found that the efforts of waste minimization and pollution prevention were well integrated in work activities. The activities of the ROSC and paper pelletizer were highlighted as positives.

In addition to the regularly scheduled classes, special classes in "Radiological Containment" and "Glove Bag Installation and Removal" training were conducted. As a part of the training, a description of ALARA Center activities is presented. And as a direct result of that, NIBBLER cutting equipment in support of operations was provided.

The EXCEL (www.excelscaffold.com) scaffolding continues to be display in building 766-H, although it had to be modified to fit in a much smaller ceiling space. The scaffolding is unique in that erection requires few hand tools.

ALARA

The 2nd Quarter Radiological Performance Indicator Report has been published and can be found in the SRS ALARA website (<http://shrine01.srs.gov/eshqa/shops/alara/>).

The Personal Protective Equipment Advisory Group (PPEAG) continues to pursue PROTECH 2000 garments for use in hot/heat stress environments. At the August meeting, the PPEAG also reviewed/discussed the specification for flash arc resistant (orange) coveralls used in the conduct of radiological work, cool vests, and the use of the KAPPLER chemical suit.

HANFORD

Hanford received adjustable clamp and lubricants from CS UNITEC to use on mockup testing of their Saws-All. The adjustable clamp design was suggested to increase the number of cuts made in size reducing waste. Mockup testing the saws-all using the new lubricant worked outstanding. Two cuts through Schedule 40 stainless steel piping with 0.154" wall and the saw teeth showed very little sign of wear. In previous tests using water to cool the blade, the saw teeth turned red-hot if they weren't frequently sprayed with water. Using the lubricant developed by Boeing Airplane Co, the teeth did not change color. This combination of the CS UNITEC saw, the new blades and the Boeing lubricant should allow workers to make multiple cuts through stainless steel materials with out changing saw blades. Information on CS UNITEC can be found at www.csunitec.com and the lubricant can be found by contacting ORELUBE Corporation at (516) 249-6500, <http://www.orelube.com/Boelube%20Liquids.htm>. Lessons Learned pertaining to "233-S Plutonium Concentration Facility Demolition" can be found on <http://www.hanford.gov/lessons/sitell/sitehome.htm>. The document listed in the reference section (i.e., Project Experience Report - Demolition of Hanford's 233-S Plutonium Concentration Facilities) relates many positive lessons learned from the successful open air demolition of the highly contaminated 233-S Plutonium Concentration Facility at Hanford. This was the first plutonium facility in the DOE Complex to have been demolished without first being decontaminated to near "free-release" criteria. Details and background information can be found in the full report.

Points of Contact

SRS ALARA Center, Building 766-H, Aiken, SC 29808
FAX (803) 208-0518
SRS Paging System (803) 725-PAGE

ALARA Center, Room 1027 (803) 208-0658

Robbie Bates (803) 208-3601, Pager #14550
Athena Freeman (803) 725-5030, Pager #16551
Lee Smith (803) 208-3602, Pager #12977

robbie.bates@srs.gov
athena.freeman@srs.gov
lee.smith@srs.gov