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**SRS Radiological Operations Support Center (ROSC)
Radiological Technology Center (RTC)
January 2004 Activity Report**

Assistance, Demonstrations, Research and Tours

The development of a ROSC external web page is being finalized. The external page will update on a quarterly basis. Additionally, the internal web page is so to be revised. There was an average of 47 distinct addresses requesting internal web page ROSC information during the fourth quarter of 2003.

The Passive Aerosol Generator (www.fogging.com) from the ROSC was used to fog (filled with a fine particle mist) a Central Transfer System Pit in F-Tank Farm. The purpose of the fogging is to better control airborne and transferable contamination during near term decontamination and decommissioning (D&D) work. Next to be fogged is the 1F Evaporator.

A QUALITY SOUTHWEST / THERMOELECTRON (now called SUPPLY CENTRAL, LTD) display (www.thermo.com/rmp) was returned to its owner for future use at Los Alamos National Labs. The display is a model of a durable drum cover to shield 55-gallon TRU drums with higher than usual radiation levels. Neutron shielding is made of borate polyurethane. Photon shielding is composite lead.

The RTC provided Site Demolition & Decommissioning (SDD) with a lock coil spring for a DESCO Chipping Hammer (www.descomfg.com) so work could continue in TNX.

The RTC provided assistance to have the Siemens Teltrack Wireless Personal Dosimeters approved for use within the Limited Area (LA) of building 772-F. The devices transmit non-sensitive data to a receiver location within the LA. This receiver is essentially a stand alone lap top computer running the monitoring software that is polling dose rates from the user worn transmitter devices. The receiver / computer is not connected to SRS net or any other network interface. Based on the low risk but beneficial safety enhancement, the approval of "F" area system and will most likely recommend approval of the same configuration in other LAs where there are no other security concerns.

New Vendor Information, Equipment and Visits

The RTC-USER list is being modified to better reflect its intended purpose.

The Waste Minimization Subcommittee used the ROSC training room for its January meeting. Robbie Bates presented the paper on improving engineering controls at SRS. The presentation and paper are a part of the agenda to the national Health Physics Society mid-year meeting in Augusta. An agenda item for attendees is also a tour on 11-February of the operations support center.

Presentation of what is new in the ROSC was made at the Generator Certifying Officials quarterly training. What is new included "old" technologies used innovative ways.

"Radiological Containment" and "Glove Bag Installation and Removal" training was conducted. Additionally, the lesson plans for presenting this training in the future are being revised.

Respiratory Equipment Facility personnel toured the ROSC for an investigative, fact finding purpose. The respirator facility in F-area is scheduled to be D&D.

The seminar on combustible and toxic gas detection technology scheduled for the ROSC was moved offsite to the Savannah River Research Campus due to the previous concern on security awareness levels. Mine Safety Appliance is an industry leader in safety gas monitoring with 85 years of experience.

The RTC continues to provide input to personal protective equipment to support work efforts. Requisitioned flame resistant clothes (coveralls colored in orange designating radiological work) for the site to comply with NFPA 70E requirements have been received.

ALARA

The latest approaches in work management and dose control / measurement were brought to the ROSC from the 2004 International ALARA Symposium. The identified areas included: 1) use of extensive shielding; 2) speedy trash removal and PC pickup and restocking; 3) use of 100-square centimeter probes in releasing large pieces of equipment from thus reducing dose; and, 4) OREX PCs were used in some outages and received good reviews.

Coming Events of Interest

Health Physics Society Mid-year Meeting and ROSC tour on 11-February

John Shannon from NFS-RADIATION PROTECTION SERVICES presenting PERMACON enclosures and localized ventilation on 18-February

Pete Richards discussing latest technology in CUNO water filtration on 25-February

HANFORD

Hanford shared their approach to demolishing high alpha contaminated buildings. First, the alpha contamination is sealed with an application of Barlett Polymetric Barrier System. Second, a Soil Sement (www.midwestind.com) dust retardant is sprayed on to the area being demolished. Third, dust in the area is controlled using an ECS89 surface-active agent. The active agent is dispersed via a fog cannon and mister nozzle (www.fogcannon.com).

Hanford Tank Farm used a WACHS guillotine saw (www.wachsco.com) to cut a pump removed from an underground tank. The saw mounts on the pipe by strapping a heavy-duty bicycle chain around the pipe and tightening (see on display in the ROSC). The saw is fed into the pipe with a hand crank. Due to the high radiation levels, the saw can be operated at a distance.

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