

Report Number 017
Month May
Year 2004

ESH-RPS-2004-00058

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

Assistance, Demonstrations, Research and Tours

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

The ROSC provided an input to the decision to lease orange coveralls to comply with NFPA 70E requirements and performing electrical work with flash arc potential in a radiological environment. The lease rate is comparable to tan coveralls used in performing electrical work with flash arc potential in a non-radiological environment. Importantly, waste is minimized.

The ROSC provided an input to the use of PROTECH 2000 coveralls (www.u1st.com) to relieve heat stress hazards across SRS. The lightweight nylon coveralls are being piloted in several areas.

Assistance was provided to building 321-M personnel in regard to disposal of several cesium sources and the reuse of a metal decontamination building (www.nfsrp.com). The sources will be disposed of as a waste with other nonfunctioning nuclear incident monitor sources. The metal building will be used to support future work in E-area. A large portion of the disassembled building was free released.

The ROSC provided information on the use of hydrogen peroxide to reduce crud levels, subsequent exposure rates and a point of contact at Plant Vogtle.

The Stage Coach DOT Type-A container (www.nfsrps.com) on display at the ROSC was delivered to F-Canyon / Outside Facilities to support immediate closure needs. Another container has been back ordered for display.

Operations support was provided to the Legacy Source Team for D&D activities by way of a visit from Environmental Alternatives Inc. The patented RADPRO process uses advanced chemical extraction technology to achieve radioactive and other hazardous material decontamination (www.eai-inc.com).

Used and no longer needed radiological survey equipment continues to be accumulated in various areas across the site for support of Homeland Defense.

Two demonstrations were conducted in the ROSC; the BLADEWERX SABRE Breathing Zone Monitor (www.bladewerx.com) and the F&J Specialty Products, Inc Air Monitoring Equipment (www.fjspecialty.com).

The ROSC provided NILFISK accessories to Naval Fuels D&D for vacuuming in contamination areas and to F-Tank Farm for support of their GM-625 vacuum system.

The ROSC provided BNFL personnel in Oak Ridge with information regarding fixatives for contaminated oily metal pipes for POXYCOAT II (www.poxycoat.com), Encapsulation Technology Capture PERMACOAT, and Bartlett PBS (www.bartlettinc.com).

The Passive Aerosol Generator (www.fogging.com) from the ROSC was used to fog Diversion Box 4 in H-Tank Farm. The fogging application provided control of airborne and transferable contamination during work in the diversion box the following day. The fogging also eliminated mercury vapors typically measured at the HEPA exhaust.

The ROSC ordered an 18 foot long EZ Reacher Extension tool (www.trisyn.com) for radiological work in the F-Area Canyon.

MJW Corporation (www.mjwcorp.com) Electronic Visual Survey Program demonstration was well received. SRS does not have the funds available to purchase a site license for that, so a program currently used in Naval Fuels and F-Area Canyon will be modified for site-wide application.

New Vendor Information, Equipment and Visits

Regularly scheduled and special classes in "Radiological Containment" and "Glove Bag Installation and Removal" training were conducted.

The TRUTECH NUCUT portable shear (www.trutechllc.com) was returned to the vendor. The tool will be used in a field application in another location.

The ROSC received an Air, Electric, and Hydraulic Tool catalog from CS UNITEC Inc.

The ROSC received a PORTACOOOL Personal Cooling System from G/O Corporation. This system is a vest and has a cooling unit (pump and ice bottle) that is attached at all time during uses.

ALARA

Coming Events of Interest

- ROSC support of DOE Kids Day on 3-June
- ROSC teaming with Waste minimization/Pollution Prevention Exhibit at the SRS Safety Conference on 15 & 16-June
- Expansion Seal Technologies D Series Pipe Tapping demonstration, 30-June
- NILFISK CFM3707 Vacuum System demonstration some time in July

HANFORD

Meeting was conducted on the use of cerium nitrate gel decontamination process. Plan at Hanford is to decontaminate the glove boxes to a point to where they can be reclassified as low level waste instead of TRU waste. This eliminates the need to size reduce the glove boxes before disposal and saves several months of labor intensive work. The process consists of several stages. The gel is applied and allowed to dry. It etches and oxidizes the stainless steel to a depth of 5 to 10 microns. The gel changes to a clear color as it dries and eventually becomes white flaky material that is removed using a criticality safe vacuum cleaner.

Points of Contact

SRS Radiological Technology Center, Building 315-M, Aiken, SC 29808

FAX (803) 725-2803

SRS Paging System (803) 725-PAGE

Robbie Bates (803) 725-3935, Pager #14550
Athena Freeman (803) 725-5030, Pager #16551
Lee Smith (803) 725-3934, Pager #12977

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