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

Assistance, Demonstrations, Research and Tours

If you have not taken the time previously, visit the ROSC external web page. The web page is available at <http://www.srs.gov/general/enviro/rosc/index.html>.

The Passive Aerosol Generator (www.fogging.com) continues to get extensive field use to the extent that another may well be purchased to support future work efforts. The generator uses an ET Glycerin Invisible Blue fogging solution that was provided from the ROSC to both F-Area Tank Farm and Solid Waste. Also, a Solid Waste Division generator training procedures was reviewed.

The pilot of the Siemens TELETRAK Wireless Personal Dosimeters in building 772-F was completed. The ROSC lap top computer was used to run the monitoring software collecting the transmitted electronic personal dosimeter measured dose rates from workers.

The ROSC provided support to site personnel with a field service point of contact at Vogle Nuclear Power Plant.

The ROSC conducted a demonstration in 315-M for HB-Line personnel. A DESCO FX flush plate scabber was used to remove epoxy paint and concrete from a floor. The tool was connected via a 25-foot hose to a NILFISK GM625 HEPA vacuum to filter the particulate removed. Personnel were impressed with the performance of the equipment and took the scabber to expedite D&D activities.

The ROSC provided Solid Waste with several sheets of LEADX for shielding an assay machine. LEADX is a lead vinyl, flexible protective material available in both 0.5 mm and 1.0 mm lead equivalents. The smooth, non-absorbent vinyl surface is easily cleaned (www.bar-ray.com).

The ROSC recommended a NFS/RPS free standing drum hood to exhaust while working in a 55-gallon drum in the new building 772-F TRU Drum Processing Facility. Also, two NILFISK GM80 HEPA vacuums were provided to exhaust glove bags.

The ROSC ordered samples of Sherwin Williams Centurion water based urethane to test as an asphalt top coat for H-Tank Farm applications.

The site continues to deploy used radiological instrumentation for their intended purpose to the Homeland Defense Reuse Program. The practice makes good business sense and avoids waste generation.

The ROSC provided paint can type filters for potential use on inlet air to glove bags in D&D of Naval Fuels.

New Vendor Information, Equipment and Visits

Special classes in "Radiological Containment" and "Glove Bag Installation and Removal" training was conducted for F-Canyon personnel. Glove bags used in the training included ones that the containment fabrication facility modified with nylon zippers in place of press lock plastic seals.

Brent Daugherty from Nuclear Filter Technology visited the ROSC to familiarize himself with the prototype of a criticality safe HEPA vacuum on loan.

Arthur Desrosiers from Bartlett Nuclear Service (bartlettinc.com) conducted a demonstration of the Bartlett Final Survey

Monitor in 315-M. The monitor is a computer-controlled system that uses off the shelf components that reduce capital cost and simplify procurement for spare parts. The detectors used in the monitor are Ludlum Model 43-68 gas flow proportional counters. There are eight detectors, two are used as background monitoring and six detectors are used to sweep a one meter wide strip of floor or wall. The rugged, dependable design has been used in many final surveys.

ALARA

The ALARA web page is located at <http://shrine01.srs.gov/eshqa/shops/alara/>.

Plans are being made to host the 2004 ALARA Conference here in the Augusta area. Additional information will be provided as plans are finalized.

Annually, SRS submits ALARA Project Descriptions for the DOE Occupational Radiation Exposure Report. Currently, successful ALARA project descriptions are being collected for the 2003 report. This is an excellent avenue to showcase the successful ALARA techniques implemented.

Coming Events of Interest

- CFM 3707 HEPA Vacuum System demonstration in April
- TRUTECH NUCUT Cutting Tool demonstration in late April
- MJW Corporation Electronic Visual Survey Program demonstration on 15-April
- American Glovebox Society meeting 21-April at the SR Research Campus (ags@gloveboxsociety.org)
- F&J Specialty Products, Inc Air Monitoring Equipment demonstration on 12-May
- ROSC Exhibit at SRS Safety Conference on 15 & 16-June

HANFORD

From a DOE Operating Experience Summary Report and Hanford, good practices when cutting piping during D&D activities include:

- Use an approved work package that is specific to the task
- Conduct walk downs and engineering evaluations before working on an abandoned system
- Identify the specific piping to be cut during pre-job briefings
- Clearly mark where piping cuts will be made
- Clearly label all piping and equipment as in-service or abandoned
- Isolate and remove all energy sources
- Use lockouts and tag outs
- Conduct a supervisory review before starting the work
- Verify that all energy has been removed before making the cut.

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