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## SRS ALARA CENTER (AC) FEBRUARY 2005 ACTIVITY REPORT

**The ALARA WORKSHOP needs papers and presentations  
describing the significant accomplishments here at SRS.**

### **ASSISTANCE, DEMONSTRATIONS, RESEARCH, AND TOURS**

Need information on the SRS ALARA Center or need radiological operation support, visit the website at [www.srs.gov/general/enviro/rosc/index.html](http://www.srs.gov/general/enviro/rosc/index.html). And for information on the FLUOR Hanford ALARA Center, visit their website at [www.hanford.gov/alara/](http://www.hanford.gov/alara/).

The ALARA Center provided information on materials to consider for a shielding on a personnel contamination monitor used in Closure Business Unit.

Assistance of the ALARA Center was provided to FB Line on fogging enclosed spaces under glove boxes with the Passive Aerosol Generator. The enclosed spaces contain piping and conduit runs that have transferable contamination.

The ALARA Center is providing this monthly activity reports to the Work Planners across the site via a uniform distribution list. This was initiated from support of the Automated Hazard Analysis mentoring in H-area Completion as well as a separate initiative of others.

Also to H-area Completion, the ALARA Center provided information on a technical grade carbon filter for use in the MAC-21s from NFS/RPS. The carbon filter can either fit in its own modular housing or function as a replace of the HEPA filter with two units run in series.

Prototype of roll off pan cover was fabricated in the Containment Fabrication Facility. The VI-FLEXX 10 Rugged Vinyl, 13 mil thickness, 10.5 oz. per square yard prototype fabric is lighter in weight than the currently used PACIFITEX 1800, 18-21 mil thickness, 18 oz. per square yard fabric.

The ALARA Center provided input to the removal of stainless steel duct work containing a building exhaust path way to HEPA filters and discharge stack. The internally contaminated duct work will be removed in flanged sections. Duct work that has an excessive void and will not crush is considered "non-crushable". As the slit trenches have a limited capacity for "non-crushable" waste, duct work may well have to be either have to be filled with waste (e.g. job control waste) or foam or cut up to remove void.

The ALARA Center personnel continue to support Glove Bag Installation and Removal classroom training here in building 766-H, most recently in revising the (TRWG5100) lesson plan.

Information on the MEGATECH blade plunge cutter and the TRUTECH cutter was provided to Tritium personnel. A video of the blade plunge cutter is available in room 1027 from a demonstration at SRS back in 2003. Information of HK PORTER hydraulic rod and bar cutter was provided to D&D Support. The Cooper Tools ([www.coopertools.com](http://www.coopertools.com)) catalog is available in room 1027.

A review of historic ALARA Center support to heat stress initiatives was provided at a meeting of Closure Business Unit personnel. Other topics included an overview of 2004 performance, review of engineering and administrative controls, open discussion and path forward for 2005.

The ALARA Center supported SRS Technology Days 2005 at Fort Discovery by having a display booth. Items on display included shielding materials, extended reach tools, protective clothing, and photographs of the ALARA Center. Technology Days was attended by approximately 1,500 area elementary, middle and high school students.

Information was provided to RADCON work planning in support of potential activities for the beta-gamma incinerator. Information included fixatives, the Passive Aerosol Generator and the RUST DOCTOR (<http://www.therustdoctor.com/index.html>), a water based latex paint for coating rusty metals. HANFORD historically had good experiences with the RUST DOCTOR product.

### **NEW VENDOR INFORMATION AND VISITS**

John Shannon and John Kremer of NFS-RADIATION PROTECTION SYSTEMS conducted a "Ventilation as an Engineering Control" seminar. Due to the overwhelming response, an additional afternoon session had to be scheduled to accommodate the total of 80 people that attended. Topics discussed included HEPA design considerations, system calculations, carbon absorber applications, capture velocity, and ventilator size selection criteria.

### **COMING EVENTS OF INTEREST**

- HAGEMeyer, Safety & Radiological PPE at SRS demonstration 2-March
- SHAFER ENTERPRISES LLC, Cool Shirt Personnel Cooling System demonstration 9-March

### **ALARA**

At a February meeting, the Personal Protective Equipment Advisory Group reviewed the piloted use of a disposable plastic apron in Analytical Labs. The disposable apron will be tested for 3 months in place of neoprene aprons and protect personnel against harm when working with acids and bases in fume hoods. The facility is to search for a more durable apron that all can use. FRHAM STAY COOL water repellant coveralls continue to be piloted. The water repellant coveralls will be used in place of 12-mil plastic suits to protect against liquid hazards.

### **HANFORD**

Need information on vendors that have experience on entering ventilation ducting with robotic equipment to gather information and characterize the residual material in the duct, see websites [www.babockservices.com](http://www.babockservices.com) or [www.sarobotics.com](http://www.sarobotics.com).

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