

From: Eby, Jerald L

Sent: Monday, December 05, 2005 9:39 AM

Subject: ALARA Center Activities for the weeks of November 21st and 28th, 2005

Attachments: Changing the Protective Clothing Paradigm.pdf; November 2005 Activity Report (2).pdf; Stack Rake Replacement 11-19-05 and 11-20-05 001 - Sleeve Attachment.jpg; Stack Rake Replacement 11-20-05 Adhesive.jpg

Visit our website at: www.hanford.gov/ri/?page=974&parent=973 . This report combines the last two weeks because of the Thanksgiving break.

1. The Center contact Norman Winter at INEL to discuss Radiological Control Vehicles (RCV). Sent a questionnaire to Norman and his folks in the Facility Group. This is a continuation of an item previously listed in our weekly, to gather information for updating instructions for the use of RCV's at Hanford.
2. An epoxy coating now being used at Savannah River is Poxyc Coat. See <http://www.poxyccoat.com/> and click on "Applications". Received the monthly ALARA Center Report for November 2005 from SRS. See attached.
3. Workers at radiological facilities at Hanford wear protective clothing when entering contaminated areas. For many years facilities have provided a launder able cotton/polyester blend that seemed to satisfy most of the needs of the workers. A few years ago, SNF purchased Frham Tex II garments for workers to wear when working in areas where they could be splashed with water. The Frham clothing is similar to Gore-Tex in that it won't allow liquids to penetrate the cloth but is breathable. BHI has used disposable protective clothing during periods when the contamination levels and the D&D work scope required multiple sets of protective clothing. Information received from commercial power reactors reveals that about 90% of the plants have switched to Orex disposable clothing. Orex provided sets of clothing to the ALARA Center and we have handed out most of these to facilities that wanted to try them. To our knowledge, no facility has used them on an actual radiological job. We have learned that Oak Ridge used the Orex on a job this last summer and the workers loved the clothing. In addition, Savannah River tried out the Orex and is writing some favorable reports at this time. If your facility had heat stress problems this last summer you might want to consider switching your protective clothing to something that is cooler, especially if your workers are wearing multiple sets. In addition, if you have unexplained skin and clothing contaminations the Orex clothing has been shown to significantly reduce the number of these events. Recommendation: Read the attached 17 page report on "Changing the Protective Clothing Paradigm" and check out the website at www.orex.com. The ALARA Center still has a few sets of Orex if you're interested.

Scandia National Labs called on a ventilation system for use on glove bags. They had purchased a dog house bag from LanCS Industries, web site: www.lanCSindustries.com . The Center suggested based on the work scheduled in the glove bag, that a Nilfisk GM-80 with a speed controller would probably work the best, website: www.pa.nilfisk-advance.co .

4. The Center was toured by Tony Umek, Safety and Health VP for Fluor Hanford. He was given a detailed tour of the Center.

The Center held the basic glove bag class (020729) for 4 HPT's and 1 operator. The Center is continuing to teach approximately one class a week. If your Fluor group have interest in taking the class contact Jerry Eby at the Center. Normally have 4 to 6 students and class is all day. Bring a lunch.

The monthly Site ALARA Chair meeting was rescheduled for the 8th of December. The meeting is normally held the first Thursday of the month, but a number of chairs were not able to attend on the 1st of December.

5. The Center attended a critique at K-basins on a Bullard PAPR problem. The air supply hose had become detached from the hood during use.

K-Basin construction folks got a tent that had been excised by West Valley, New York and sent to the Center. The tent will be used for a prefabrication area at K-basin.

Forwarded brochure on the "World of Concrete's Annual Conference" to G. Chronister at 100K. The conference has four days of presentations and demonstrations on concrete. See info at www.worldofconcrete.com Last Weeks report described the presentations given at the EFCOG meeting on Radiation Protection. Copies of these presentations are now accessible at <http://www.eh.doe.gov/radiation/workshop2005/index.html> Click on "presentations" in the left column. Forwarded info on the SRS Containment Facility to PFP Plastic Shop.

Forwarded info and photos on the Wach's Guillotine saw to G. Chronister at K Basin. During size reduction of components in the pool, this saw may be a good choice. CH2M uses a modified version of the saw to size reduce long components removed from underground tanks. Read about it at www.wachsco.com. Two personnel from K Basins visited the Center and ran the saw on display and watched a videotape. They seemed impressed and will contact the vendor to get more info on remote clamping the saw to the equipment and debris left underwater in K basins. Requested info from Orex Protective clothing concerning their latest information on the reduction of personnel skin and clothing contaminations by plants that have switched to this disposable clothing. Read about their products at www.orex.com.

6. Forwarded report on Oxy-gasoline Cutting to PFP Rad Engineering. PFP is evaluating whether plasma-arc cutting is the best choice for size-reducing several waste collection tanks. Read the report at <http://apps.em.doe.gov/OST/pubs/itsrs/itsr1847.pdf> Forwarded list of Fixatives used at Hanford to PFP Engineering.

The Center was contacted by PFP operations looking for a longer front bib on a hood, similar to an MSA hood used with the PAPR system. They are using the hood over their respiratory equipment to minimize contamination the respiratory device. The Center gave a couple of suggestions and has contacted a couple suppliers of hoods to determine availability. The item will continue into this week and be reported on the next Center Weekly..

7. T-Plant ALARA Chair forwarded a couple of pictures to the Center on the containment attachment on the Stack Rake Replacement, 11-19-2005, see attached picture. Information was forwarded about this job and the pictures to Dee Ekstrom and Sally Lamson, Radiation Protection D&D, in preparation for stack probe work at PUREX. For further information on the T-Plant work, contact Dave Andrews at 373-0815.

8. Larry McKay's of ORP is giving a presentation on Dec 5, as part of the continuing education program for Health Physicists. The presentation will be at 2:00, at 2420 Steven Center, room 153. Title: Radiological Control Assessments

VENDOR Corner

Everest VIT, web site: www.everestvit.com visited the Center last Tuesday.

Imaging and Sensing Technology (IST), web site: www.istimaging.com has established a partnership with Inuktun Services Ltd, web site: www.inuktun.com . IST, have the cameras and Inuktun have the crawlers to carry the cameras.

Jerry Eby

Larry Waggoner

ALARA Center of Technology
509-372-8961 fax 509-376-7717

ALARA Center of Technology
509-376-0818 fax 509-376-7717