

From: Waggoner, Larry O

Sent: Friday, May 26, 2006 2:14 PM

Subject: ALARA Center Activities for Week of May 22, 2006

Attachments: FilterSure Test Report.doc; Glove Comparison.doc

Visit our Website at www.hanford.gov/rl/?page=974&parent=973

1. During this week the ALARA Center was running a booth at the Hanford Health and Safety Expo. During this period, we were able to talk ALARA with a lot of persons attending Expo as well as other vendors. Part of the time, two personnel from Intellegation shared our booth and demonstrated their line of long handling tools being used by SNF to pickup debris from the floor of the fuel pools at K Basin. Intellegation LLC is a small engineering firm that has developed some impressive tools. If you need special tools, recommend you check out their website at www.IntellegrationLLC.com.

In addition, met with Mark Zachary and Don Kooser from Bartlett and they will recommend that Bartlett resupply the ALARA Center with their latest tools and equipment. Met with Paul Steiger from MSA and will arrange an ALARA Center tour to determine what MSA equipment could be displayed. Steve Turner from Best Glove Corp and George Nagle from Stellar Industrial Supply indicated they had a line of cut proof/puncture resistant gloves they would send to us. Joann Rohner of Columbia Basin Hotsy loaned us another Hotsy Pressure Washer. Nick Clyma loaned an Everest VIT Video Probe. Kevin Santillie will forward info on his quick spill recovery systems from The Spillpro.

Several workers discussed their need for better cut and puncture resistant gloves for D&D work. The ALARA Center will increase our participation in finding better protective gloves. See item 5 below. As always, there was a lot of interest in the Champion Hydraulic shear, Trumpf nibblers, and Desco Shrouded tools. One medical facility wanted a recommendation on sealing lead bricks to reduce the chance that workers would transfer lead particles from the bricks into their body when they handled them bare-handed. Recommended Polymeric Barrier System (PBS) sold by Bartlett as a product that would seal the brick and reduce the oxidation of the lead.

Lanc's Industries showed their new air hood that has a HEPA filter on top to let air pass through into the hood. A belt mounted battery pack pulls up to 33 CFM into the hood to cool the worker. This hood is designed to cool the worker but doesn't have a NIOSH approval and a protection factor assigned to be a respirator. If the worker loses air, the hood can be pulled off within 5 seconds. Tests of the batteries show they last up to 7 hours. Lanc's will contact Bill Smoot to see if this would help improve working conditions in Tank Farms and revisit Hanford to demonstrate the hood in the next two weeks. Lanc's also showed several reinforced articles of protective clothing that could be used to reduce the chance that workers would puncture their protective clothing when kneeling, crouching, or climbing into restricted areas. Everest VIT showed their line of the latest state-of-the-art in video cameras. Tank Farms personnel already have several other video cameras on order and made plans to order another model at Expo.

2. Forwarded info to SNF on Frham Tex II protective clothing. They are evaluating the Frham Tex II protective clothing's breathability and are concerned with solving heat stress issues when it gets hotter this summer. Recommended they read report at: <http://apps.em.doe.gov/OST/pubs/itsrs/itsr1854.pdf> and contact Frham at www.frhamsafety.com. Forwarded info on a Cast Cutter to Doug Holbrook in case he needs to remove lagging or cut the sleeving around wiring, without damaging the inner wiring. The blade on the tool vibrates and slowly ratchets around. The tool is mostly used to cut a cast off a broken arm/leg, without cutting the person's skin. See <http://www.m-pactmed.com/SearchResult.aspx?CategoryID=9> for more info on this tool.

3. Jerry continued to work on the self-assessment team looking at "Design and Control" at K-Basins. Final report on this assessment should be out in late June. Mr. Andy Scargill and Ms. Dyan Foss

from British Nuclear Group toured the ALARA Center. They were visiting Fluor Hanford for two days following their visit to the Portland, Oregon area for the demolition of the Trojan Nuclear Plant Cooling Tower. At Hanford, they were learning about deactivation and decommissioning activities taking place at the Fluor Hanford Projects. During the hour tour, they were able to see many of the tools and equipment at the Center, and were able to discuss equipment for personnel problems they have encountered at the British facilities. The Center gave a number of product brochures and discussed lessons learned on some of their issues. They seemed very interested in the ALARA Center and we expect to hear from them in the future.

4. Forwarded report on "Radioactive Contamination Incidents Involving Protective Clothing" to WHC Field Engineer. Read this report at <http://www.osti.gov/bridge/servlets/purl/399712-XcBWY2/webviewable/399712.PDF>. Received message from the Resource Technologies Group Inc. concerning the Evaluation of Filtersure Multi-Media Filter: Hydrolase Recycle Water". This system can apparently be used to remove particulate from waste water being used during hydrolasing of highly contaminated surfaces. Read about this system on the attachment to this message. This system is unique in that it provides for the separation of filtration media in five distinct modules, each of which can be backwashed separately. Washington Group International had requested this test be accomplished to determine whether it would be applicable to filtration needs within the DOE or DOD complex. See Filter Sure's website at www.filtersure.com.

5. Received message from Heatherly Dukes from Unitech concerning our plan to evaluate the cut and puncture resistance of several gloves. She also said there are apparently 5 levels of cut resistance and 5 levels of puncture resistance. As the cut resistance increases, typically, the dexterity decreases. A glove's "coating" is typically what provides a higher puncture resistance. The attachment compares different types of launderable gloves and is provided here for your information. If you're interested in purchasing these gloves contact Heatherly at email heatherly@unitech.ws.

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VENDOR's CORNER

Camfil-Farr from Seattle, will be at the Clarion Hotel May 31, 2006 from 11:30 to 6:00 showing their products. Some of the products are an in-line canister breather filter, 2000 CFM @ 1" W.G. HEPA filter, Hot cell containment housing and a integrated system "Small Footprint". RSVP Brian Wolford at 1-800-875-2473, extension 17 or brianw@air-commodities.com if you intend to visit the demo so he can ensure he has enough refreshments.

FOR YOUR INFORMATION

1. On Wednesday, June 14 from 2:00 to 4:30 there will be a presentation on "Old or New? Current Issues in the Hanford Radiobioassay Program". This is part of the Health Physics Professional Development Seminar Series. Location is 2420 Stevens Center in Conference Room 153. Attendance is approved for 4 CEUs from the American Board of Health Physics and 1 CEU from the National Registry of Radiation Protection Technologists.

2. The ALARA Center will be getting a summer-aide to inventory what tools and equipment are at the Center. This will make it easier to track each product and allow us to efficiently inventory what we have so nothing is lost or misplaced. Plan is to bar-code each item.

3. Recently approved DOE Technical Standards can be found at <http://www.eh.doe.gov/techstds/standard/recappts.html>