

From: Waggoner, Larry O
Sent: Thursday, November 02, 2006 1:09 PM
Subject: ALARA Center Activities for Week of October 30, 2006

Attachments: DSCF0980.JPG; DSCF0932.JPG; DSCF0947.JPG

Visit our website at <http://www.hanford.gov/rl/?page=974&parent=973> The Savannah River ALARA Center is at www.srs.gov/general/programs/alara

1. PFP personnel brought a new plywood mockup to the ALARA Center. They are preparing to dismantle, size reduce, and seal out old RMA Line process equipment as part of PFP overall D & D mission. The mock up simulates a modification to the glovebox to install a 15" sealout port onto the existing glove box for performing these sealouts. Dave Romine's Process Equipment Removal Team provided a sample of a glovebox glove and asked that I obtain a larger size of Hex Armor U Glove-400R6E for use inside gloveboxes. Called the vendor and gloves are on the way. The red or shaded part of the photo on the right shows the locations on the glove that the worker has the highest levels of puncture, cut and scratch protection. In this case, the glove provides protection over the entire glove. The Company will ship their largest size glove that will fit over the glovebox glove. See <http://www.hexarmor.com/pfi/industrylist.asp?catid=1>.

PFP personnel are engaged in activities that involve the size reduction of equipment inside glove boxes and the workers are at-risk of getting a contaminated wound. They have also requested shoe covers made from the same fabric for D&D workers doing size reduction outside the gloveboxes.

2. PNNL engineer F. Steen called and requested info on MGP Instruments for surveying a vault in Building 325. Instead of mounting a GammaCam on their robot they have decided that remote reading dosimetry would provide the survey information they need. Recommended she contact K. Spero at (770) 432-2744, ext 163 and discuss using the MGP remote reading instruments. Loaned a shrouded pneumatic needle gun and grinder to CH2M to demonstrate how it removes paint from metal. They returned the tools and said they would order electrical powered tools from the catalog. These will be used to remove lead-based paint on the roof of 222-S Labs.

3. Began arrangements for testing of a new decontamination product called Decon 188. The product is being manufactured and sold by Cellular Bioengineering Inc. Tests will be conducted at the ALARA Center on December 5 & 6 using out two stainless steel gloveboxes. PFP is looking for an improved method to decontaminate Pu gloveboxes so the levels can be reduced and the waste reclassified as Low Level Rad Waste instead of Transuranic waste. This saves size reducing the gloveboxes and they can be disposed at the ERDF trench instead of sent to WIPP as TRU waste. Learn about this company at <http://www.nerac.com/research-victories/cellular-bioengineering-inc/> or call Mike O'Neill at (808) 772-7543.

4. Set aside several 5 gallon containers of PBS Sealant for WCH, T-Plant, and Groundwater. Conducted the Site ALARA Council Meeting for November. Received some photos from T. Haan of a forklift with "skinny forks" that INEEL uses to remove waste drums from burial grounds where the drums are stored on their sides. SWSD is evaluating this equipment when they remove the highly radioactive drums in Trench 12B. The 2nd and 3rd photos show a cradle used to rotate the drum to a vertical position. Loaned our copy of the "Industrial Ventilation Manual" written by the American Conference of Governmental Industrial Hygienists to W. Smoot of CH2M. He is working on making improvements to the radiological work practices used during sampling underground tanks through risers.

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FOR YOUR INFORMATION

1. There will be a vendors show at HAMMER on November 6th and 7th. Times are 10:00 to 4:00 on Nov 6th and 8:00 to 3:00 on November 7th. Please encourage anyone that might be interested to stop by and meet these folks. The vendors are:

LANCS - Containments, Glovebags, Shielding, Protective Clothing

Bright - Ideas Award products

Unitech - Laundry, protective clothing, decontamination

Intellegrations - Specialized tools, (Long Handling Tools for K Basin + anything else you need engineered)

Always Sharp Tools - Rust Doctor (Converts rust into black magnetite and this changes loose contamination to fixed contamination)

Master-Lee - Polyurea spray coatings, decontamination

Nat'l Safety Safety products including the Hex-Armor puncture/cut resistant gloves

Water Works America - Powders that absorb liquids

GE Inspection Technology - High end video equipment and robot tractors

2. Congratulations to John Miller who received the award for Safety & Health "Employee of the Month". John was responsible for introducing the "Camel-Bak" hydration backpack this summer and getting it approved for use. Workers wore the backpack containing 2 liters of water in the 100+ degree heat. A drinking tube was attached to their collar and all they had to do is bite on the tube to suck out the liquid. Workers wearing the 3-M Powered Air Purifying Respirator (PAPR) and anti-C clothing were able to run the tube under the protective clothing to the worker's face area after 3-M agreed that it wouldn't nullify the NIOSH approval for the hood since it didn't change it's form, fit or function.

3. Notes from the SRS ALARA Center Monthly Report: Radcon personnel are using a 5" X 2" Kestrel 1000 Pocket wind meter to determine containment air and exchange rates; One facility is using Mohawk Industrial gloves (part# RG 150R11AMBI in glove bags where ambidextrous gloves are needed. Radiation attenuating surgical gloves were tested and results revealed a 40% reduction in extremity dose. They are also looking at sleeves made from the same material to reduce forearm dose. Point of Contact is Robbie Bates at (803) 208-3601. Gloves are part #797-1190 and are sold for \$50 per pair at www.int-bio.com/gloves.php

4. Agreed to do a 2 hour presentation for 12 Radiological Control Supervisors and Health Physicists at Puget Sound Naval Shipyard later this month. Subject of the presentation will be "What I learned about Health Physics Since I Left the Shipyard". Presentation will also include the tools, equipment and work practices that Hanford is using that may be applicable to the kinds of work being done on nuclear powered ships. Earlier, I had obtained input from several ex-shipyard personnel about what is different at Hanford.