

From: Waggoner, Larry O
Sent: Friday, October 13, 2006 1:55 PM
Subject: ALARA Center Activities for Week of October 9, 2006

Attachments: vwrvendorsshowcase_102306.pdf; 2006-HMParker-Talk.pdf

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



1. Attended a meeting at the WRAP facility to discuss recovery actions as a result of an RCT wounding himself with a needle used to puncture the lids of waste drums during the collection of a head space gas sample. Workers and RCTs looked at the Hex-Armor puncture and cut resistant gloves and they were able to project the website video showing how the gloves were cut and puncture resistant. See www.hexarmor.com. They selected several gloves that would meet their criteria. PFP used the ALARA Center mockup training area to train workers on glove changes and other glovebox operations.

2. Forwarded information on how the ALARA Center obtains lessons learned to DOE HQ. Locations included:

Records from Past Experience Interaction with Vendors Internet DOE Lessons Learned
PHMC Lessons Learned DOE Records Archives Networking with other Contractors/Sites
Hanford Tech Library Attend Off site conferences, symposiums and workshops Present ALARA workshops at Hanford.

Larry Waggoner / Jerry Eby
Fluor Hanford ALARA Center
(509) 376-0818 / 372-8961

FOR YOUR INFORMATION

1. See attached info on the vendor "showcase" to be held Monday October 23, at the EMSL building in the PNNL complex. There will be multiple vendors showing their lab and safety products. There will be another vendor show at HAMMER on November 6 and 7th. The show will be from 10:00 to 4:00 on November 6 and 8:00 to 3:00 on November 7th. Received a catalog from Allegro Industries that contains some interesting respiratory products, portable blowers, work in Confined Spaces, ergonomic supports, knee pads, and seasonal climate control products. See the catalog at www.allegrosafety.com.

2. Forwarded info to CH2M ALARA Coordinator on hand operated portable heat sealers. Met with FFS personnel and discussed methods of "horse tailing" large components removed in Tank Farms. They are raising components into a sleeve, turning the component to twist the sleeve and then applying tape to the twisted portion before the sleeve is cut with electrical cable cutters. Then they fold the hanging sleeve up around the component so it looks like the letter "J": and tape it off. A "diaper" bag containing absorbent pads is then installed to collect any additional liquid that might drip out. Occasionally, they get a few drops of liquid out the cut area before they cover the end with tape. They intend to let the component hang in the air longer to get more residual water to drip before doing the "horsetail". Recommended they use large electrical cable ties or metal banding instead of tape to squeeze the twisted area of the sleeve. Found a presentation given at the 2002 Waste Management Conference that directly applied to this job. See <http://www.wmsym.org/Abstracts/2002/Proceedings/28c/182.pdf> Personnel at Oak Ridge

trained on a mockup using fluorescent powder and a black light to teach workers the best method to make a horsetail cut on sleeving. In addition, during the job,

- They sprayed water and Elmer's Glue in a 2:1 solution inside the sleeve to make it tacky;
- They used Electricians elastic PVC tape to wrap the sleeve instead of duct tape;
- Ratcheting PVC cutter was used to make the cut;
- Steel pipe clamp was used to hold the sleeving to the component.

NOTE: The ALARA Center has fluorescent powder and blacklights we can loan to anyone wanting to simulate contamination during mockup training.

3. Got a call from the owner of Desco Tools. See www.descoinc.com. Apparently one of the Duke Power Plants in North Carolina has to descale a highly contaminated sump and they want to use a shrouded tool connected to a HEPA filtered vacuum cleaner. Problem is that the levels are so high, there is concern that high airborne contamination will result even though the HEPA vacuum cleaner will be operating. Desco personnel told them about a similar problem that occurred a few years ago in a Tank Farms pit at Hanford. FFS workers needed to descale the floor of the pit but there was concern that the HEPA filtered vacuum cleaner wouldn't collect all the airborne contamination. The ALARA Center loaned the FFS workers an FX Surface tool to try out in a mockup. The mockup exercise was a success. The Desco FX Surface tool has a spinning hub with carbide steel buttons that slap the surface as the hub rotates. FFS workers plugged the vacuum cleaner connection on the shroud with tape. They took the handle off the tool and replaced it with a ~15' long handle so the tool could be operated from the top of the pit. The air motor on the tool was rotated upward and plastic sleeving installed to route the air discharged from the pneumatic tool away from the lower part of the pit. The drain on the pit was plugged and water added until there was ~3" of water. The tool was then started and the spinning hub descaled the pit. All the contamination and the debris were trapped in the water. Grab air samples taken in the pit revealed no spread of contamination. This same technique is now under consideration at the Duke Plant.

4. The preliminary program for the Health Physics Society Mid-Year meeting in Knoxville has been published. The theme of the conference is D&D and Environmental. See <http://birenheide.com/hps/2007MY/program/sessionlist.php3> Click on the blue items and the abstracts will appear.

5. On October 25, the Herbert M. Parker Foundation is sponsoring a public lecture at 4:00 PM at the Washington State University Auditorium-East Building. Title of the presentation is "Hanford - Birth of DOE Cleanup". A flyer providing more information is [attached to this message](#).

6. The latest Operating Experience Summary Report can be found at <http://www.eh.doe.gov/paa/oesummary/oesummary2006/2006-11screen.pdf> There are articles on "Life Threatening Illness Due to Heat Stress" and "Explosion & Fire at UK Oil Storage Facility Caused by Overfilled Tank". **If you're planning on filling a tank and don't have a reliable Tank Level Indicator, contact the ALARA Center for recommendations. Tapping on a tank listening for a change in the sound isn't reliable.**