

From: Eby, Jerald L

Sent: Friday, June 24, 2005 2:13 PM

Subject: ALARA Center Activity Report for the week of June 20, 2005

Attachments: Brokk Swedish army knife.jpg; EverestVIT_Hanford-ALARA-Center.pdf

Visit the ALARA Center web site at: www.hanford.gov/alara/

1. Ground water visited the Center looking for disposable Nitrile gloves. They took all the gloves that they needed from the Center and will replace them when their shipment arrives. Ground Water Rad Engineer visited the Center with a couple of issues. The first item was a sample splitting glove bag for sampling soil. The Center has been involved in the glove bag design and Ground Water wanted to have the Center work on some of details with the Plastic shop on the bag construction. Second item was information that had been requested by DOE. DOE RadCon is developing a training class for FAC REPS at Hanford. The Center supplied some fluorescent sneak thief powder to simulate loose contamination and a group of pictures of the ALARA Center to be include in a presentation for the FAC REPS.
2. A CH2M planner visited the Center looking for a means of sealing a grouted surface, so that during work, no radioactive contamination is transferred to hoses and other material coming in contact with the deck. Gave the planner the list of fixatives used at Hanford (generated by the Center) and suggested using Bartlett's PBS Sealant for sealing the surface, web site: www.bartletinc.com.
3. Received a doctored photo of a BROKK Demolition Machine showing it with six arms and some of the attachments the BROKK has for demolition work. Photo is attached. Forwarded info on HEPA filtered vacuum cleaners to SRS ALARA Center. This included an electronic copy of HNF-15639, Guide for Using HEPA Filtered Vacuum Cleaners and Portable Ventilation Systems. Also provided them info on the different techniques used to "horsetail" and cut transfer sleeves. They are looking for a portable heat sealer to reduce the chance of contamination spread. Forwarded info to G. Hastings on Cost/Benefit Analysis to help him sell some ideas to SNF Management. This included a booklet on "Optimization and Decision-Making in Radiological Protection".
4. SNF Ops called asking for help in finding a "tree pruner" that could be used to cut 2-3" hoses underwater in the K Basin fuel pools. Visited electrical utilities with two operators and looked at telescoping wire cutters used by electrical linemen. They tested it on a 2.5" hose and it worked very well. The model preferred has a ratcheting action that should reduce worker fatigue. They will contact the company and see how large a pruner they can purchase. See www.hfgp.com.
5. Received request for information from Scott Nickerson of PNNL who is working at Chernobyl. He wanted info on tape products and a video showing workers donning and doffing protective clothing. Referred him to the 3-M tape expert, Mike Carufel @ (800) 708-2803 and gave them 3-M's Website at www.3M.com/product/index.htm. Referred him to Brian Killand to get a copy of a videotape.
6. Received request for help from Bechtel Jacobs at Oak Ridge concerning the decon of hot cells. Forwarded message discussing the techniques available that don't create a lot of liquid. Recommended they consider using the decon chemical process that PFP is using to decon gloveboxes. Chemicals made by Environmental Alternatives Inc are applied with a foam applicator and then vacuumed up. See www.eai-inc.com. Recommended they read <http://www.osti.gov/bridge/servlets/purl/762749-ggPxo1/webviewable/762749.pdf> which is a lesson learned concerning the D&D of a hot cell facility. Finally, recommended they contact Dave Ramey of USF Surface Preparation Group who sells many technologies for preparing surfaces and may have better ideas on how to remove the contamination from the Hot Cell. See www.surfacepreparation.com or call (800) 899-3872, ext 7602.
7. Received request for ALARA Center personnel to perform an ALARA Review of the preparations to hydrolaze the walls of the K East fuel pool. Plan is to operate the production model at the Parsons

Complex in Pasco next Tuesday. The purpose of hydrolasing the fuel pool walls is to reduce the amount of radioactivity present as the water is lowered. Received an Electro-Hydraulic Rod/Bar cutter from Die-Quip Corp. PFP is going to test this tool to see if it improves their cutting techniques for size-reducing debris from PFP Gloveboxes and other controlled areas. See this tool at www.diequip.com.

8. Provided info to SWSD ALARA Rep on the chemical decon process used successfully to decon the concrete floor at the old ATG Building. Recommended he call Mike Peters of Environmental Alternatives Inc at (303) 980-4101 or website www.eai-inc.com. Forwarded info from Master-Lee (Rick Largent) to CH2M ALARA Coordinator concerning a high pressure water system Master-Lee thinks would be successful decontaminating high-dose jumpers. Master-Lee requested that CH2M loan them a jumper to try out and they would test their decon system at no charge. CH2M agreed to start the necessary paperwork to loan them a jumper.

FOR YOUR INFORMATION

Found 511 page report on What's Buried in the 200 Area Burial Grounds. See the 21 Megabyte file at <http://www.osti.gov/bridge/servlets/purl/16778-sAvlou/webviewable/16778.pdf> Report was written by J.D. Anderson in September, 1996

VENDORS CORNER

1. Trumpf nibbler vendor visited the Center, working with George Carter on acquiring a N-700 for use on site. They are going to cut hold down attachments on tank and cut support members to the vertical ribs of the tank.

2. Everest VIT visited the Center, web site: www.everestvit.com . He demonstrated a number of the Everest cameras and remote operating systems to be used with the cameras during his two day visit. See attached brochure from Everest.

Jerry Eby

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

Larry Waggoner

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