From: Eby, Jerald L
Sent: Monday, July 30, 2007 7:18 AM
Subject: ALARA Center Activities for Week of July 23, 2007

Attachments: NPRRC-20 MSDS.doc; NPRRC-20 Radiation Containment Ensapsulant.doc; INVITE 2008 all.doc; INVITE 2008 Vendor.doc; 07-16-07.pdf; fixative 9.doc
Visit our Website at: www.hanford.gov/rl/?page=974&parent=0

1. In discussion with PFP plastic shop, they now have Pacifitex Polyurethane Laminate for RF welding to Polyurethane or Polyester material. This material has been on the market for a period of time and available at both PFP Plastic Shop and Lancs, but not readily known by most folks on site. In the past Pacifitex had to be sown together with Polyurethane material and only PVC product could be heat sealed or RF welded to the PVC based Pacifitex material. Makes for a better, stronger containment, especially without the holes from sowing the materials together.

2. The ALARA Staff gave training in Basic Glove Bag (020729) to six students from CH2M Hill and Fluor. The Staff taught "Life of a Glove Bag" to RCT/HPT continuing training at Hammer to 8 CH2M Hill and 15 Fluor personnel.

3. Forwarded info on fixatives used at Hanford to Alex Nazarali, the D&D ALARA Coordinator who planned to go over the list with his ALARA Committee. See Attached List

4. Gave a tour of the ALARA Center to two CH2M Hill ALARA personnel. Fluor Hanford Respiratory Committee held their monthly meeting at the ALARA Center. Some of the members took a tour of the Center following the meeting.

5. Tom Craft, WS&D SWSD Lead RCT, visited the Center looking at soil fixatives and aerosol fogging equipment that might help when handling highly contaminated old rusted drums. We provided a list of nine commonly use soil fixatives and photos of different types of fogging equipment, along with product information sheets.

6. The site monthly ALARA Chair meeting location has changed for the month of August. The meeting will be held at the ALARA Center, Bldg 2101M, room 222 at 2:00, Thursday, August 2nd. Hope to see all the ALARA Chairpersons there or their representatives.

Under FYI

1. (Misting Devices) We have been using misters as a dust suppression/contamination control technique for several years at Hanford. Misters were installed on the B-Plant crane when high airborne contamination was encountered in the canyon. Misting the work area every two hours eliminated the high airborne contamination levels. Misting devices were used during the demolition of several facilities at PFP and at 233-S. The mist ensured that any airborne contamination would fall back to the immediate area. A technical handbook on dust suppression techniques can be found at http://www.aeec.com/Conveyor/Dust%5FControl/Dust_Resources/Arch_Dust_Suppression.pdf ARCH Environmental sells misters used in quarries to suppress massive amounts of fugitive dust. The dust is similar to the airborne debris that occurs during demolition. Particles released during D&D activities are exposed to an environment that contains massive quantities of very fine water particles. The dust particles agglomerate with the water particles, increasing in weight, then falling back to their source of origin. We have also used misters to cool areas to reduce the risk over a worker getting heat stress. Websites to see this technology can be found at http://www.mistcooling.com/doit_yourself.htm, http://www.mistcooling.com/mistingtent.htm, and http://www.cloudmister.com/c-16-pumps-misting.aspx.

2. Plan on attending the Hanford ALARA Workshop on February 26 & 27, 2008, at the Clarion Hotel located in Richland, WA. The Workshop's theme is "ALARA…. From the Beginning." Workshop questions can be direct to Owen Berglund of CH2MHill at (509) 376-9035. ALARA Workshop information is attached.

3. Pat New, First Energy, read last weeks report about Decon Gel and forwarded us information about NPRRC-20, a water based particulate encapsulant. Energy First has used this encapsulant with success and has provided us with the attached information about NPRRC-20.

4. Decommissioning Resource Manual is available at: http://www.directives.doe.gov/pdfs/doe/doetext/neword/430/g4301-4.pdf

5. See the attachment with safety related info/lessons learned on heat stress, a fatality due to poor work planning, and a spill of 83,000 liters of nitric acid solution caused from leaking reactor plant piping. The article on heat stress contains some good information on the value of gradually acclimatizing workers to warm environments and the most important factor in preventing heat stress-keeping the worker hydrated.

Jerry Eby **Larry Waggoner** **Jeff Hunter**
Fluor Hanford ALARA Center of Technology
509-372-8961 376-0818 373-0656
fax 509-376-7717