

From: Eby, Jerald L

Sent: Monday, July 18, 2005 7:28 AM

Subject: ALARA Center Activities for the Weeks of July 4, 2005 and July 11, 2005.

Attachments: Lab innovation deconning metal surfaces.rtf

Visit our website at: www.hanford.gov/alara/

The ALARA Center Activity report was combined for the last two weeks because of the July 4th holiday and the short week.

1. PFP personnel visited the Center looking for tooling the vent some 4" stainless steel pipe. They looked at Hot Tap and Kitz Plus, web site for Hot Tap: www.estgrp.com. Called Expansion Seal Technologies (Hot Tap) to determine if their tool can be used expanded to 4" pipe as the product information brochure state to 2 1/2". EST does make a saddles for larger dimension piping, greater than 4".

Forwarded info to PFP Engineer on using Ultrasonic Nondestructive Testing techniques to determine liquid level in a 4" pipe from Building 242. Recommended he contact the Krautkramer-Branson Co at (717) 242-0327 (Doug Lutz) and discuss the technology of finding liquid levels in pipes and other components. This is relatively simple, easy to use, and the equipment is inexpensive.

2. CH2M Hill personnel from the evaporator visited the Center looking for Frham Tex II PPE. They had exhausted their supply. Called Marynn Safety, web site: www.marynn.com for availability. Marynn Safety at one time had a couple of conex boxes of PPE stored at Energy NW II, for outages at the power plant. Presently, Energy NW has gone to the Unitec Pro 2000 and have no Frham Tec II on stock. Marynn Safety talked to CH2M procurement about a substitute PPE and the availability. CH2M group looked at the "Orex Deluxe" clothing, which is water resistant, web site: www.orex.com. They took 24 set of the Orex Deluxe clothing with booties to try at the evaporator facility. Orex had shipped a small supply of clothing to give out to facilities looking for an alternative PPE.

3. Ground Water visited the Center looking a means of cutting large sleeve umbilical cuts. One suggestion was to procure an electric wire knife. Other suggestions were to purchase a Ridgid Tool PVC tube cutter, website: www.ridgid.com or similar cutting tools from a local distributor. The Center had a tool, manufactured by Dawn, similar to KwikCutter, that cuts PVC pipe. The Center loaned on of these cutters for Ground Water to use on a practice sleeve.

4. Forwarded info to the Rocketdyne-Boeing Company in California concerning fixatives used to coat the internal concrete surfaces of a building before demolition. Recommended they use Polymeric Barrier System sold by Bartlett at www.bartlettinc.com and read the final report on the Demolition of Bldg. 233-S at <http://www.hanford.gov/lessons/sitell/1104/233-s.rev1.pdf>

5. Project Engineer George Carter from U Plant D&D loaned one Trumpf nibbler, a PN-200, to the ALARA Center for display until they need the unit for future work.

D&D PLANNING INFO

1. The following 112 page document describes the plans for D&D work at Building 232-Z which is the Waste Incinerator Facility at the Plutonium Finishing Plant. This assessment was written in 1994 and the D&D effort is currently in progress.

See <http://www.osti.gov/bridge/servlets/purl/10132078-vfUAhz/native/10132078.pdf>

2. The following 117 page report concerns "Development of Systems Engineering Applications for D&D Activities. See <http://www.osti.gov/bridge/servlets/purl/3902-EtxEDo/webviewable/3902.pdf>

3. The Rocky Flats DOE Site is nearing closure and there are several Information Fact sheets on their Website concerning the tools, equipment, and technology that Rocky Flats has used to date. This info is at <http://www.rfets.gov/doe/> Recommend scrolling down the list and selecting reports that are of interest. These reports cover topics about plasma arc cutting, polyurea coatings, hydrolasing, size-reduction techniques, glove box decontamination, groundwater operations, and many others.

The ALARA Center was able to acquire a copy of the 2004 Rocky Flats Closure Project Report for the D&D folks. Mr Lackey has the single copy.

VENDOR CORNER

1. Bill Davison, a Vice President of Kelly Klosure Systems toured the ALARA Center this morning and described some of the recent improvements they have made in the construction and their ability to move these buildings as a complete unit. It may be time to revisit what's available from Kelly Klosures and determine if they now are a viable alternative to working in open top containments.

2. I.S.A Corporation visited the Center with a demo of their product. PPE gloves and booties. They manufacture and supply the PPE gloves used in the Naval Nuclear Program.

FOR YOUR INFORMATION

1. Received call from K.Mortenson at West Valley concerning their plan to excess new fire retardant Nomex coveralls, booties, anti-C coveralls and hoods. They offered to forward them to the ALARA Center and we accepted. Once these arrive, we will distribute to Hanford Contractors.

2. Tri-Tool Inc will be conducting four training classes at the ALARA Center on August 10 and 11. Thirty-two workers are registered for the "free" four hour class. Additional personnel that are interested in this training should contact L. Waggoner who will place your name on a cancellation list. See www.tritool.com to see their line of tools.

3. Waggoner attended the Health Physics Society Summer School in Spokane, WA last week and presented a paper on Innovative ALARA Techniques used at Hanford. Additional presentations were given by PNNL and BHI personnel to about 50 students. Since this was the 50th Anniversary of the Health Physics Society most presentations included a history of how health physics has evolved since the 1900's. The recent issue of the Biological Effects of Ionizing Radiation (BEIR) VII report concerned the biological effects of low radiation doses and stated that even low doses of radiation are harmful. This report was referred to by many of the speakers during the week. The senior members of the Health Physics Society will be tracking the discussion about the BEIR VII report and will probably provide recommendations concerning whether the annual dose limits need to be adjusted or risk estimates modified. The annual meeting of the HPS was conducted this week in Spokane, WA.

4. DOE Operating Summary 2005-10 has an article on a heat stress incident and the actions needed to prevent heat stress when workers wear protective clothing in hot environments. This report can be found at: <http://www.eh.doe.gov/paa/oesummary/oesummary2005.html> . This article includes a Heat Index Chart to show the combined effect of humidity and temperature, a listing of heat ailments, and how workers can "work defensively to protect themselves from heat stress".

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