

From: Waggoner, Larry O

Sent: Thursday, April 21, 2005 3:24 PM

Subject: ALARA Center Activities for Week of April 18, 2005

Attachments: abwdoc.jpg

Visit our Website at www.hanford.gov/alara/

1. Provided tour of the ALARA Center to an ABW Technologies person who's company is constructing Interim Storage containers for FFTF. She also toured FFTF. The attachment shows the Interim Storage Casks. For more info, contact Aimee Dura at (360) 618-4416 or see www.abwtec.com. Received word from Bldg 324 they had 3 drums of steel shot they no longer needed. Other facilities are evaluating whether they could use the steel shot. Boxed up 150 sets of OREX disposable clothing for S. Lamson to try out at the D&D worksites. This clothing is more breathable than the launderable cotton/polyester clothing worn now.
2. Attended presentation on the EKOR fixative at HAMMER put on by Global Matrechs, Inc. This fixative had been applied at Chernobyl five years ago over a highly radioactive fuel mass. Since that time the company has been testing the product and demonstrated it at SRS. Personnel from K Basin were interested in whether it could be an improved method of removing equipment from the basin or coating the walls. The new name for EKOR is NuCap and Dow Corning personnel are apparently involved with the development of this product.
3. Forwarded info to PFP concerning the vent ducting in Building 291-Z. Plan was to remove the ducting until a robot tractor equipped with cameras discovered up to 2" of an unknown material inside the ducting. A survey instrument on the tractor indicated a high of 18 million dpm/100cm² alpha. NDA and NDT surveys will be accomplished to determine the activity levels and how thick the remaining metal is on the bottom of the duct. Once the results of the survey data are known, further actions will be identified.
4. Forwarded copy of a report on a Geologic and Environmental Probe system to the Waste Stabilization Radcon Manager. The report states that INEEL has developed a probe that can be inserted directly into underground waste sites using well drilling equipment and obtain more accurate data than we get now drilling wells around the perimeter of the waste site. Once the probe is inserted into or under the waste site, a series of instruments can be lowered into the probe tip to collect data. The probe is left in place instead of being removed like drill casings. This results in no contaminated soil to control. For info on this device contact Richard Jones at 208-526-1454 or email zrl@inel.gov.
5. PFP personnel returned the wide mouth porta-band saw they had borrowed to test cut a mockup of the pencil tanks from the PRF Canyon. Their testing revealed this tool would work well so they have ordered three "Deep Throat" saws that have a 7" capacity for the actual job. See www.csunitec.com. Provided them a sample of the Boelube liquid lubricant (now called Prolube) sold by CS Unitec. This lubricant also comes in a stick form and we recommended they use it on the actual job. Tests at the ALARA Center showed we could double the number of cuts if we cooled each blade while cutting stainless steel pipe. It was only necessary to touch the blade with the wax stick a few times during each cut. Without the lubricant, the teeth on the blade would turn red-hot so we had to frequently spray the blade with water. The stick lubricant is much easier than spritzing. Contacted CS Unitec and they forwarded info on the lubricant, which we forwarded to PFP engineering.
6. Received a copy of the Draft ALARA Report for K-East North Load Out Pit Sludge Treatment prepared by D. Andrews and L. Rathbun. Dry Runs at Parsons were completed and the equipment is being broke down for shipment to T Plant. ALARA Center personnel have been asked to review the ALARA Report and we will complete early next week.

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FOR YOUR INFORMATION

1. Began working with Daryl Anderson from Tri-Tool on a presentation he would like to make at Hanford. Tri-Tool intends to offer a class to craft personnel on pipe cutting using various types of pipe cut-off and beveling machines. The focus of the training will be to teach workers how to use these tools, not to sell Tri-Tool equipment. ALARA Center personnel will assist him and provide information on the radiological controls needed when using these tools. There will be no charge to attendees for this training and registration will be on a first-come, first-served basis. More than one class will be provided if there is enough interest. Estimate this training will occur this summer. Please don't try and register now. Tri-Tool will have a booth at the Hanford Health and Safety Expo May 3-4, If you have suggestions on which tools should be included in this training class, please stop by the Tri-Tool booth.

2. FFS has purchased a NuCut battery-operated shear for cutting contaminated piping in Tank Farms. Recently, another NuCut system was sold to the 300 Area River Corridor folks for cutting piping underwater in Building 327. It seems like everyone that looks at this tool buys one so if you have piping, conduit, framework, etc to cut, you might want to check it out at: trutechllc.com/nucut.htm.

LESSONS LEARNED

Received info from INEEL concerning a large Hotsy pressure washer they used to decontaminate piping and a radioactive waste tank. The original plan was to ship this piping to ATG at Hanford for decon at a cost of \$900,000. Instead they purchased a Hotsy pressure washer and did the work themselves. Total cost avoidance on this project was \$728,685 plus they reduced the waste water that would have to be treated. The Hotsy system is now being used at INEEL on different jobs to provide dust suppression during demolition of contaminated concrete walls. The Hotsy provides sufficient water to control fugitive dust without generating secondary waste water. An extension nozzle allows the worker to stand beyond the impact zone to avoid physical, chemical, and radiation hazards. They also use it to decontaminate complex surfaces of construction equipment. Several of the Hanford contractors have purchased these units and they worked very well cleaning heavy equipment after the 233-S D&D project. For more info, call Columbia Basin Hotsy at 943-6022 or www.cbhotsy.com.