

From: Eby, Jerald L

Sent: Friday, September 02, 2005 1:36 PM

Subject: ALARA Center Activities for the Week of August 29, 2005

Attachments: Video Library.doc; vendors list.doc; mega-tech.jpg

Visit our Website at: www.hanford.gov/alara/index.cfm

1. PNNL instrument lab took a Eberline TCM-2, tool counter and a Eberline L RAD, small item alpha counter, that the Center had for a couple of year that had been excessed by one of the facilities.
2. A plant engineer from FFTF called about a tool his manager had seen at a trade show in Denver recently. I was a pipe shear, that maintained the pipe roundness. The shears the Center have seen, all flatten the steel pipe while cutting. Checked with Mega-Tech Services, which they thought was the source of the Unit at Denver, possibly a BPC-4, BPC-6 or a 3001 series unit. **UPDATE:** MEGA-Tech does have a shear that keeps the pipe nearly round following shearing. See the attached picture. The shear with the rounded end is the unit.
3. Held a meeting with Waste Retrieval RadCon Manager to discuss a closure (bag) that could be placed over a damaged drum during movement in the trench. The idea is to minimize actual movement of damaged or potentially damaged drum and contain all the contents during movement and repacking into an overpack. Received a copy of a containment drawing that waste retrieval had sent to Lancs Industries last July 2004, web site: www.lancsindustries.com, for a prototype 55 gallon drum carrying bag. Lancs has assigned a model number to the containment of LI-379M-55. Forwarded the Lancs paper work to the RadCon Manager.
4. Gave PFP some sneak thief powder and checked out a black light for some up coming training. The Powder is very flighty and is used to simulate loose radioactive contamination. Additional training by PFP has been on going at the Center. Classes included; Visual examination techniques and use of power tools for size reduction of contaminated material. PFP returned the 230v Electro-Hydraulic Krenn Tool they borrowed. See <http://www.diequip.com/electr.htm> They decided to purchase two 110v models for segmenting waste in gloveboxes.
Forwarded an occurrence report from PFP on the Plastic Shop heat sealer burns to the Plastic Shop at Savannah River, which has similar heat-sealing machines. PFP personnel received a burn when they touched metal during the heat sealing process. The heat sealing machine vendor is on-site this week to correct the problem.
5. EnergX taught the "ALARA Training for Technical Support Personnel" class at the Center. The students took a tour of the Center as part of the class. 4 personnel from 222-S Labs and 4 training personnel from Los Alamos took tours of the ALARA Center. The Center held the monthly Site ALARA Chairperson meeting at the Center. The meeting is held the first Thursday of the month at 2:00 in room 222. The meeting is open to all groups in the Hanford complex. The Center has updated the ALARA Center Video Library list and the Vendors Supporting the ALARA Center list for our website. See the two attachments above.
6. Forwarded copy to SRS ALARA Center of a presentation given by Dan Niebuhr of CH2M at one of our ALARA Workshops. SRS had called wanting to know what types of tools Tank Farms uses to segment materials. Title of presentation was "Applying ALARA Concepts and Tools to Contaminated Long-Length Equipment Removal and Disposal Operations". Provided Dan's phone number so they can talk directly to each other.
7. Mike Stevens requested help in finding a degreaser that was better than the "Simple Green" being used at U-Plant for D&D Work. Forwarded request for help to Hanford Contractor ALARA Coordinators. Received several responses with recommendations on other products. We will track these and see which one U Plant likes the best. **UPDATE:** U Plant received information on a product, HURRISAFE 9040

Special. It has been used on site , MSDS # 020763. U Plant tried the degreaser, Hurrisafe 9040 and it worked extremely well. Web site: www.visionmfg.com

UNDER FOR YOUR INFORMATION

1. Received message that Bladewerx has come out with new instruments for measuring alpha in real time without waiting for radon daughter decay. These include a portable alpha monitor, a smear counter, and a breathing zone monitor. See www.bladewerx.com Currently, WCH (J.DeMers) is working with this vendor to make improvements when working with Uranium isotopes.
2. Received call from T Plant engineer concerning the need to arrange for getting tools tested by a Nationally Recognized Testing Lab. Having NRTL approval is an OSHA requirement for electrical equipment. FH and CH2M have the necessary paperwork in place to bring an inspector from Western Washington to accomplish the testing. For items that are on site and need to be tested, call Steve Stecker at 373-7715 for Fluor and Melissa Garrard at 376-4871 for CH2M. If you want to purchase a tool or equipment and have it tested at an NRTL before it arrives at Hanford, contact Marge Palfrey at 372-0470.

Vendors Corner

1. Met with the new DuPont representative and Safety & Supply. Discussed status of protective clothing and what is currently being worn at Hanford. DuPont is trying to develop new fabrics that are cooler, lighter, stronger, and repel water. The DuPont Sales Manager is Dan Hirsh and he can be reached at (360) 733-1283 or email Dan.Hirsh@dupont.com. He provided samples of the latest Tyvek clothing that is 50% stronger and 25% cooler than the Tyvek of two years ago.
2. Received box of booklets from E.H. Wachs Co showing their line of cutting machines. Their section on Special Projects describes chip less tools used to separate sections of chemical warfare munitions and past lessons learned on D&D at Nuclear Power Plants. Forwarded copies of the booklets to CH2M, FFTF, K Basin and PFP. See www.wachsco.com U Plant personnel called looking for a large model Hotsy pressure washer to decon a contaminated shear. They had rented a smaller model but it didn't have enough pressure. Our Hotsy is the same model so they will rent a larger unit from Columbia Basin Hotsy on Monday. They have found they can rent the Hotsy and leave it outside the controlled areas and run the hose into the Contamination Areas. They pay rent on the Hotsy and purchase the hose. See www.hotsy.com or www.cbhotsy.com

NEWS FROM Savannah RIVER ALARA Center (www.srs.gov/general/programs/alara)

The ALARA Center at SRS is involved with the contractors to educate and improve technology to mitigate heat stress. They are also working with the vendors to get better technology into the field. One of the ALARA Center staff has been assigned to work part-time with their Tank Farms to promote new technology. Vacuum cleaners were provided for use in some facilities and a vendor demonstrated TECTRAC RADPRO chemicals to decontaminate the track of a contaminated bulldozer. A purchase order was placed for OREX disposable protective clothing to pilot test in two facilities. SRS uses E-Z Reacher remote pickup tools in several facilities to remotely retrieve materials in hazardous areas and assist in decontaminating gloveboxes. They recommend POXY-COAT II paint to fix contamination. See www.poxycoat.com New vendors demonstrated their products. E.D. Bullard demonstrated their PAPR hood that is reported to have a more powerful battery, which provides better air flow and comfort. Die Quip (www.diequip.com) sells a ratcheting cable cutter, Model KN953-11 which may be an improvement over the PVC cutters or pruning shears used to cut pass-out sleeves.

Correction to the ALARA Center Report for Week of August 8, 2005

In the lessons learned section I described what was done at the West Valley Site to decontaminate and remove equipment from an Extraction Cell. A rigid-style containment structure was installed around an upper hatch made from prefabricated metal panels. Incorrectly, I gave credit for this structure to NFS/RPS Services who sell Permacon containments. In this case, the structure was designed by a local engineering company, the parts were made at Bruce's Welding, a local Fab shop, and assembled by a local contractor. Contact Russell Lauber at email rglauber@bechtel.com for details on the construction of the rigid containment.

LESSONS LEARNED

Read Lesson Learned from the Plutonium Finishing Plant. They had a CAM Alarm in Room 308 containment tent while work was in progress inside a glovebag in the tent. During the work, an ~8" vertical cut was made into the glovebag in order to pass tools and materials inside the glovebag. The opening was secured with green construction tape on both sides. Later, the CAM alarmed and personnel exited the containment. During the recovery phase, smoke tests revealed the taped access was leaking. The breached area was repaired and retested. The lessons learned were that a hand-held smoke generator is a good tool for finding leaks in glovebags. When repairs are made, they should be retested prior to work. Taped patches or seams may not hold up during rigorous D&D work. The ALARA Center recommended they use G-Flexx tape sold by G/O Corp for patching plastic materials. The tape is very sticky and has nylon string woven through it to make it very strong. Read about it at <http://www.gocorp.com/product.php?ID=108> Contact G/O Corp at (800) 933-850.

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