

From: Waggoner, Larry O
Sent: Friday, January 07, 2005 2:12 PM
Subject: ALARA Center Activities for Week of January 3, 2005

Attachments: Nov 3 SA in a Fog compressed.JPG

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

1. Forwarded info on CCTV cameras to T Plant personnel. They are looking for a small throw-away camera to monitor sludge transfer from inside the transfer container. Referred them to SNF, FH Security (Dave Kauer), Westec in West Richland and Everest Visual Inspection Technologies. PFP personnel used the glove boxes at the ALARA Center to train/practice glove changes and improve worker glovebox skills.
2. Received call from BHI looking for an inexpensive containment to use by personnel egressing from a burial ground. Suggested they could use an E-Z Up containment at <http://www.elitedeals.com/canopy.html>. They intend to select one or more containments with sidewalls and install a HEPA filtered vent system for personnel doffing their protective clothing. Forwarded info on work practices for cutting materials to WIPP.
3. PFP ops visited the Center looking for information on HEPA vacuum cleaners and HEPA filtered exhausters. Supplied information on Nilfisk vacuum cleaner, web site: www.pa.nilfisk-advance.com and NFS/RPS for exhausters, web site: www.nfsrps.com. Provided info to G. Carter on Wet/Dry vacuums from Nilfisk. CH2M Hill Rad Planner visited the Center looking for information strippable fixatives. Suggested they review the DOE Technology Report on ALARA 1146 at web site: <http://apps.em.doe.gov/ost>. Click on "Reports" and then Innovative Technology Reports. Gave additional information on PBS coatings and a similar product, FEVDI, recently introduced from France.
4. PFP ops visited the Center looking for information on tools for cutting a carbon steel sample riser pipe close to where it exits a concrete slab. Discussed use of Tri-Tool cutter (web site: www.tritool.com), cutting with a burner torch, grinding to a blue line and rolling off, and using saws from Unitec, (www.csunitec.com). Supplied a catalog from Unitec to the worker. They were also interested in commercial containments, especially glove bags. Gave a catalog from Lancs Industries, in Seattle, WA. at www.lancsindustries.com.
5. Solid Waste ALARA Chairperson visited the Center to look at launderable cotton/polyester protective clothing. This item is a continuation from last week. After looking at the samples at the Center, suggested he contact Debbie at Marynn Safety Supply in Richland at www.marynn.com. She can supply more products for their evaluation.
6. Briefed 8 BHI and sub-contractors on the fixatives in use at Hanford. They have problems with Pu contamination in a burial ground that was supposed to have drums of uranium. During the discussion we told them about the Fog Cannons used at Building 233-S and they will contact D&D personnel to learn more about them. They will eventually have to excavate the dirt/debris and the Fog Cannons might ensure there is no contamination spread. See attached photo of Fog Cannon in use at Building 233-S.
7. Conducted PHMC monthly ALARA meeting with PNNL, CH2M and BHI ALARA personnel present. This was a very productive meeting with a lot of information sharing. Forwarded info on vendors that sell rigid containments to PFP engineer. Forwarded a video tape on a hydraulic nut splitter to BHI engineer. They have to remove several rusty nuts from 2" bolts and can't use a torch. See <http://www.fastorq.com/index.htm>

8. Responded to a request from Rocky Flats Radcon Director on the controls and work practices used at Hanford to prevent puncture wounds during D&D. Provided info on the protective clothing, tools, and work practices being used at PFP.

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VENDORS

Mega-Tech and Patton Hydraulics will demonstrate a 400 pound hydraulic shear Monday at 1:00 in the shop at the corner of 4th & Buffalo, near the 200 East Evaporator. PFP has purchased one of these units for size reducing materials and Tank Farms may buy the unit being demonstrated. Wear your safety equipment if you attend the demo. See Website <http://www.championrescuetools.com/>

NFS/RPS will be putting on a ventilation class Tuesday and Wednesday January 11 & 12. One class will be in the morning and one in the afternoon, each day. The instructor is going to teach the students how to capture airborne particulate using ventilation as an engineered control. Contact Jerry Eby if you would like to attend. There are a few spots still open. There is no charge for this training. The vendor, NFS/RPS, has sold a lot of equipment here at Hanford and this is their way of saying thanks.

FOR YOUR INFORMATION

1. Al Nellesen, who formally worked for BHI, is now working at INEEL and will be attending the International ALARA Symposium next week in Florida. He will forward any info on ALARA vendors or good lessons learned he sees at the symposium to the Hanford ALARA Center. When we attend the Waste Management Conference in Feb-Mar, we will be passing out business cards from INEEL, West Valley and SRS to those vendors that have new technology that can help the DOE Sites. We will also be preparing a trip report listing all the good ALARA work practices we learn about and info on new tools/equipment after the Conference.

2. The ALARA Center was recently asked about the requirements for purchasing a HEPA filtered vacuum cleaner. Specifically, Is it required to have the vacuum cleaner HEPA filter tested at the Filter Test Facility in Oak Ridge before it can be used at Hanford? At Hanford it would be tested again by Vent & Balance before use in the field. Contacted Pat O'Brien from Central Engineering who is now the Site Technical Authority on HEPA filters concerning whether testing HEPA filters and vacuum cleaners at the FTF is a new requirement. The following is a summary of his response:

- If a portable exhaustor or vacuum cleaner takes a standard sized HEPA filter (i.e., HEPA filters which could also be used in a building HVAC system), then it should be sent to the FTF for testing prior to use at Hanford.
- For radial filters and other non-traditional filters types used in vacuum cleaners, the decision is up to the person ordering the device. Note: FTF has the equipment to test all types of filters. For vacuum cleaners, there is No current Fluor Hanford requirement to have the filters tested at the FTF, however, some facilities may have documents that require the testing.
- For portable exhaustors, the answer could be yes, or no, depending on several factors. If the filters are procured to either HNF-S-0477 or HNF-S-0552 the answer is yes. Sometimes a facility Documented Safety Analysis (DSA) will discuss FTF testing. When portable exhaustor are used in applications supporting a DSA mandated Limited Condition of Operation requirement for filtration, then the answer is also yes. The safe bet for exhaustors is to have them tested.
- For some types of HEPA equivalent filters, (metal sintered, ceramic, carbon composite, etc.) we often will test filters at the FTF because the manufacturer does not have the mono-dispersed test capability required to certify design performance.

A revision to the Nuclear Air Cleaning Handbook was issued last year and can be found at <http://www.eh.doe.gov/techstds/standard/hdbk1169/index.html>. At the present time, Hanford is not contractually bound to comply with this handbook. DOE has assembled several committees to rewrite some of the DOE procedures governing HEPA filters, and eventually these revised procedures will be passed down contractually to Hanford. Please understand that the above information needs to be documented in a procedure and it's not necessary to change the way you're doing things based on this report. *It is provided for your information. This should be considered a "Heads Up" that changes are coming.* Should you need to talk to the FTF at Oak Ridge, call Julie Davis at (865) 574-9384

SAVANNAH RIVER NEWS

The SRS Website is at www.srs.gov/general/enviro/rosc/index.html. The SRS ALARA Center provides info and training similar to that provided by the Hanford ALARA Center. New vendors being used at SRS include:

- S.G.Pinney, which makes a two-part coating used at INEEL during D&D of Spent Fuel Pools. This coating can be applied underwater, but contains a carcinogen, MDA. Read about it at <http://www.coatingengineer.com/contact-sg-pinney.htm> and <http://www.sgpinney.com/index.html>
- Polestar uses BIODOR560 coating/fixative and applies it underwater. It does not contain any carcinogens. Contact Steve Martinson at (smartinson@polestar.com)

The SRS Personal Protective Equipment Advisory Committee met recently to discuss the use of disposable coveralls/aprons, hand/finger protection, and to define "work clothes".

NOTE: Hanford had a similar committee but it was eliminated in 1996. If you feel that we need to revive that committee, please contact the ALARA Center and we'll see how much interest there is.

The Department of Energy (DOE) has approved the Savannah River Site (SRS) to host the first SRS ALARA Workshop on May 2 - 4, 2005. The ALARA Workshop will be open to the DOE complex and commercial nuclear power plant personnel as both attendees and presenters. The Workshop will focus on education and information exchange for applied ALARA programs. Subject matter expert presentations are planned for Monday and Tuesday, and an onsite tour of SRS is planned for the morning of the last day Wednesday. Vendors will also be present on Monday and Tuesday to display their products. A call for presenters and vendor involvement will be issued soon.

The Workshop will be held at the Augusta Towers and Hotel Convention Center, Augusta, Georgia. The hotel rates are per diem and a workshop registration fee of \$50 will cover breaks and miscellaneous meeting expenses for participants. Vendor fees are still being evaluated and will be provided in the call for vendor involvement.

Please reply to the undersigned if you have an interest in attending (either as a attendee, presenter, or vendor). Additional information on agenda and hotel reservations will be issued in early 2005 for participants.

See you at the SRS ALARA Workshop.

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