

From: Waggoner, Larry O
Sent: Friday, January 06, 2006 2:14 PM
Subject: ALARA Center Activities for Week of January 2, 2006

Attachments: Shrouded tooling.doc; IVT Vac.pdf
Visit our Website at www.hanford.gov/rl/?page/=974&parent=973

1. Loaned our digital camera to the Plastic Shop so they could record their containment fabrication techniques. Contact William E. Collins at 373-2668 if you need the Plastic Shop to fabricate a containment device, bag, special sleeve, etc. Members of the Respiratory Protection Committee visited the ALARA Center and discussed whether fall protection equipment could be worn with respiratory protection and not change the "form, fit, or function" of the fall protection or the respiratory equipment. Jerry attended a Respiratory Protection Committee meeting to further discuss this issue.
2. Provided CD with copies of ALARA Center documents to T. Peterson, who has accepted a new job as Radcon Director at Brookhaven National Lab. Provided copies of catalogs from Desco Tools and Novatek to workers from FFS. They have to grind a bevel on a 24" sleeve that is highly contaminated and wanted to use a shrouded grinder that has a vacuum cleaner connection to reduce contamination spread. See www.desco.com or www.novatekcorporation.com. We have attached a report that provides additional info on shrouded tooling.
3. Forwarded a list of fixatives to RCT Supervisor at 324 building. They are preparing to remove some Ion Exchangers and want to "fix" contamination in place. Received call from Energy Northwest Power Plant Radcon Manager concerning what we use at Hanford to design, fabricate and use radiological containments. Forwarded her a package of information we use to train workers. CH2M manager visited the ALARA Center looking for lightweight protective clothing to minimize heat stress at Tank Farms. Gave him samples of the disposable water resistant OREX Deluxe clothing and recommended he attend Monday's presentations by Unitech. See www.orex.com
4. Sent message to key OPS personnel concerning their need for new tools and equipment. The ALARA Center offered to help them search for new technology if they would let us know what problems they're having. Mike Minette responded asking for a tool that would cut stainless steel pipes, structural components, glove boxes and ducting quickly, without getting hot, creating sparks and requires no blade changes. We will work on this problem next week.

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VENDOR INFO

Heatherly Dukes from Unitech will be at the ALARA Center Monday and Tuesday, January 9 and 10th. She will be presenting a class on protective clothing and the technology on the market that prevents heat stress. She has lots of experience working on heat stress issues at SRS and may have some insight on improving conditions at Hanford.

Daryl Anderson from Tri-Tool will be at the ALARA Center January 24 at noon until 2:00 on January 25 to discuss the Tri-Tool cutting machines. He will have several machines with him that can be set up on our mockups to demonstrate pipe cutting. See www.tritool.com.

FOR YOUR INFORMATION

1. Received call from Rick Butler at INEEL concerning the upcoming International ALARA Symposium in Orlando, FL and the Waste Management Symposium in Tucson, AZ. We have attended these conferences in the past and briefed him on how to get the most benefit. He will look for new tools and techniques and forward the info to Hanford upon his return. We will provide our business cards to Hanford personnel who attend the symposium to hand out if they see new tools and equipment.

2. Received a call from Don McCarthy, who is the Nilfisk Vacuum Cleaner person who has the responsibility for sales to DOD and the DOE. Nilfisk has developed a vacuum cleaner for the pharmaceutical industry that can also be used for radiological work. It is the IVT 1000 CR Vacuum Cleaner with a SAFE-PAK Container. It is rated at 72 CFM and can be used with a speed controller. As we understand, the unit has an upper section that contains the motor. The lower section contains the collector drum and HEPA filter. The lower part is disposable. When the two sections are separated, the contaminated material is trapped in the lower section and there will be no removable contamination accessible to the worker. See attached information. So...

Nilfisk will send us a unit to evaluate and put on display. We think that a facility like PFP could buy a motor unit and several disposable lower units. These could already be tested by vent and balance, since the HEPA filter is permanently installed in the lower section. As soon as the vacuum is full, the lower section could be removed, a new lower section installed and the unit put back into service. The lower section could then be disposed of as rad waste without exposing the worker to removable contamination. Nilfisk has asked us to evaluate the unit and provide them feedback. They estimate that a facility would only spend about one-third the cost of buying separate units and the risk to workers would be significantly reduced. For more info, contact Don McCarthy at (401) 529-3281.

3. International Climbing Machines has added videos of their next generation machines to their website. Their machines consist of a platform that uses a vacuum cleaner suction to hold the platform to the wall, ceiling or floor. Tool packages are added that can scabble surfaces, decontaminate, perform non-destructive testing and position remote reading survey instruments. These machines are designed to be used in hazardous, highly radioactive or contaminated areas where you don't want to send workers. The machine can be driven remotely across the floor and when it reaches the wall it will climb the wall without the need for workers to reposition it. Recommend looking at www.icmachines.com

4. The new DOE Specification for HEPA Filters used by DOE Contractors can be found at www.eh.doe.gov/techstds/standard/std3020/doe-std-3020-2005.pdf At Hanford, HEPA filters are purchased using HNF-S-0552 or HNF-S- 0477.