

**From:** Waggoner, Larry O

**Sent:** Thursday, July 27, 2006 11:56 AM

**Subject:** ALARA Center Activities for Week of July 24, 2006

**Attachments:** Port Welding Vent LL.doc; Nuclear Cleanup of Rocky Flats.doc; \_prod\_main\_dcon.jpg; P3110026.JPG; What is OREX.doc; Foaming Techniques.doc; xband\_large.jpg; cuttingstation\_large.jpg

Visit our Website at [www.hanford.gov/rl/?page=974&parent=973](http://www.hanford.gov/rl/?page=974&parent=973)

1. Forwarded lesson learned on using portable HEPA filtered ventilation to site personnel currently using these systems. See attachment. The report mentions using Flowchecker Powder (Lab Safety @ (800) 356-0783) to check air flow. Another more quantitative measurement of capture velocity could be a hand-held anemometer.....available for around \$100. We teach the Hanford workers to use a plenum or scoop on the suction hose to block off air coming from unwanted directions, thereby increasing the flow directly in front of the hose, which increases the amount of airborne material captured in the air stream.
2. Forwarded info on the 2007 Health Physics Society Mid-Year Meeting to NFS/RPS, Wachs Tools, and Champion Rescue Tools. Meeting is on D&D and Environmental and these vendors expressed an interest in attending and possibly, presenting a paper. See the Conference Website at <http://hpschapters.org/etchps>. Provided tour of the ALARA Center to personnel attending the training class on ALARA Training for Technical Support Personnel.
3. Forwarded photos of a tool developed for T-Plant to key Hanford personnel and off-site ALARA personnel. Tool simplifies installation of a closure ring around the top of a waste drum. See attached photo. Installing the ring is often a risky job and can easily pinch a worker's fingers. These tools can be purchased from Parsons at (509) 547-7724, Attention Mark Rieb. As the tool is squeezed, the ring expands. Once it is installed on the drum, the tool is relaxed and the ring squeezes the top of the drum and lid. Forwarded info on cleaning ventilation ducts to G. Carter, who has to clean the canyon fans. Found a 537 page report on the Deposition of Particles in Vent Ducting that should help him and anyone else that may have to D&D vent ducting. See <http://www.osti.gov/bridge/servlets/purl/810494-TJ7iIY/native/810494.pdf>
4. WCH planner called wanting info on foaming piping prior to cutting with a shear. Recommended he contact Patton Hydraulics at [www.champres.gte.net](http://www.champres.gte.net) and they could tell him whether shearing carbon steel piping would cause sparking. In addition, forwarded info on "Foaming Techniques". See Attachment. This document increases in size every time we get feedback from personnel that use expandable foam. **We would appreciate any additional comments or lessons learned that would update the information we have on using expandable foam. We are continuing to look for a foam that will expand and not off-gas nasty chemicals and is resistant to catching fire.**
5. Groundwater called and wanted to add a HEPA filtered vacuum cleaner to the "approved" list of vacuum cleaners for use outside radiological work facilities. Notice of Construction (NOC) DOE/RL-97-50 can be used to support most radiological work outside facilities as long as the work area contamination levels fall in the scope of the NOC. The vacuum cleaner they wanted to add was a Euroclean GD-930-HSP, which is already listed as Euroclean GD-930. Fen Simmons contacted John Schmidt at the Washington Department of Health and the vacuum cleaner is being added to the list. **FOR YOUR INFORMATION:** Facilities are encouraged to use this generic NOC rather than writing their own NOC, if the contamination levels fall within the NOC parameters. If a facility purchases a new model vacuum cleaner that isn't on the "approved" list, the Washington Department of Health will be notified 7 days in advance of the aerosol testing so they can witness the testing. Contact Fen Simmons at 372-0413 if you have questions.

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## UPCOMING DEMONSTRATIONS

Ralph Fabian, the owner of *Desco Shrouded Tools* will be at the ALARA Center Friday, August 4 from 9:00 to 2:00. Stop by and check out his latest technology. See <http://www.descomfg.com/Catalog/catalog.pdf> to browse the entire catalog.

National Safety will be demonstrating a line of puncture and cut resistant gloves from Hex-Armor on August 16, probably from 9:00 to 2:00. See [http://www.nationalsafetyinc.com/dept.asp?ID=883&d\\_id=9325&l1=9325&l2=&Show=2](http://www.nationalsafetyinc.com/dept.asp?ID=883&d_id=9325&l1=9325&l2=&Show=2) They have some



gloves that protect the wearer from a needle puncture. These are worn by policemen who have to search drug addicts. They might be a good choice for workers during D&D Operations.

## FOR YOUR INFORMATION

1. Last week's ALARA Center report provided a website for a Government Accounting Office Report on the D&D of the Rocky Flats Site. The website is [www.gao.gov/new.items/d06352.pdf](http://www.gao.gov/new.items/d06352.pdf). The report is 117 pages long and we felt many of you don't have time to read it. Therefore, the GAO report was condensed down to **five pages** and is attached to this week's ALARA Center Activities Report.

2. A company that sells high quality containments for asbestos removal is Grayling Industries. They also carry a product line made by DCON that can be used as an emergency decontamination facility. See the website at <http://www.graylingindustries.com/products/> They also sell chemicals, which are used to encapsulate asbestos and lead-based paint. If you have need for a containment inside a facility, you might be able to make this work and save money over having a radiological containment fabricated. See attached photo

3. Found an article on cleaning with Carbon Dioxide pellets. Read it at <http://www.osti.gov/bridge/servlets/purl/537246-2VATHp/webviewable/537246.pdf>  
Found another article on robots used to inspect the internals of underground tanks. Read it at <http://www.netl.doe.gov/publications/proceedings/99/99em/emp2-7.pdf>

4. There were two presentations last week at the Hanford ALARA Workshop on Heat Stress by CH2M and Savannah River. Each presentation discussed the virtues of wearing breathable, disposable anti-C clothing purchased from OREX. At CH2M, crews from Sampling and Waste Feed Operations wore the OREX clothing on a pilot project and the workers were impressed. When compared to the cotton-blend launderable clothing normally worn, the OREX is 70% lighter, 20% more breathable, cheaper, and the crews found them cooler and lighter. Initially, they had two problems with tearing at the crotch when climbing a ladder but this was solved by wearing one size larger and changing the taping technique at the ankle. At SRS, workers liked the OREX clothing but had one clothing contamination when a worker kneeled in a contamination area. Workers were reminded to use a kneeling pad, wear knee pads, apply duct tape to the knees, or take other actions when they have to kneel, crawl, lay, etc in contaminated areas. See the Attachment on Frequently Asked Questions about OREX. Discussion with some

personnel who have worn the OREX revealed they were interested in comparing the OREX clothing with other types of disposable, breathable protective clothing. Temperatures at Hanford have been over 100 degrees F for two weeks with a high of 112 degrees F.

5. Received three RADeCO grab air samplers for display at the ALARA Center. These samplers all meet the OSHA requirements of being tested by a Nationally Recognized Testing Lab and have the Underwriter's Lab Label. See <http://radecoinc.com/home>



**See these samplers at the  
ALARA Center. HD-29A,  
HD-66A, H-809V and H-810**

6. Popular Mechanics Magazine has an advertisement for a one-handed battery-powered cordless bandsaw that cuts everything including hard materials like stainless steel and titanium. The 9 pound saw also can be fit into an optional cutting station to turn it into a benchtop stationary saw. Called Stout Tools at (877) 337-8688 and discussed loan of a saw and stand to the ALARA Center. They will prepare their tool and work station for shipment within a few days. For additional info see [www.stouttool.com](http://www.stouttool.com) and [see attached photos.](#)