

**From:** Eby, Jerald L

**Sent:** Friday, March 16, 2007 2:21 PM

**Subject:** ALARA Center Activities for Week of March 12, 2007

**Attachments:** Parker Demo.doc; prevail18.pdf; Ventilation Notes.doc; Reducing Respirator Use.doc

Visit our ALARA web site at: [www.hanford.gov/rl/?page=974&parent=0](http://www.hanford.gov/rl/?page=974&parent=0)

1. (Excessed Material) The Center gave FFS nine - 5 gallon palls of PBS, made by Bartlett, Inc, web site: [www.bartlettinc.com](http://www.bartlettinc.com), that had been excessed. POC was Ryan Maygra at CPSM.
2. (FR disposable Clothing) Cynthia William and Ted Giltz, FH, contacted the ALARA Center, looking for providers of FR disposable PPE suits. The Center contacted Tom Bester, Safety and Supply, web site: [www.safetyandsupply.com](http://www.safetyandsupply.com) and Jay Robbins, with National Safety, web site [www.nationalsafetyinc.com](http://www.nationalsafetyinc.com). Both Vendors have suppliers that carry this type of clothing. Information was forwarded to Cynthia Williams and Ted Giltz. See attached "prevail" for one example.
3. (Looking for Support equipment) CH2M RadCon managers visited the Center looking for; communication systems by CoBalt, web site: [www.cobaltav.com](http://www.cobaltav.com), spray down and pressure wash equipment by Hotsy, web site: [www.cbhotsy.com](http://www.cbhotsy.com), enclosures with removable roof, such as Kelly Enclosures, web site: [www.KellyKlosure.com](http://www.KellyKlosure.com), and Permacon, web site: [www.nfsrps.com](http://www.nfsrps.com), HEPA filtered vacuum cleaners for use with glove bags; GM-80 and/or VT-1000, web site: [www.pa.nilfisk-advance.com](http://www.pa.nilfisk-advance.com), all for C-104 pit work.
4. (Vacuum Cleaner accessories) Working with Dan, WCH, at 100N, for in line filters and chip collectors for use on HEPA filtered vacuum cleaners. Suggest he contact the site Fab shop sheet metal group, who a couple years ago, designed and made a couple prototype in line filters for vacuum cleaner. Also, that the site Fab shop welders could simply make a couple of chip collectors (rock stoppers) if they were supplied with small collection drums ( 3-10 gallon). Just need to hole saw two holes and weld in two sleeves, the size of the vacuum cleaner hose I.D.
5. (Glove Bag Training) The Center has been setting up special training for glove bag work at K-Basins. They have to remove a pump assembly and then clean and repair transfer pump in a separate radiological controlled vented hood. They have have a number of operators and RCT/HPT's that need the basic glove bag class #020729 and some specialized training on working in a certified glove bag. The Center ran two classes on Thursday, March 15th, day and swing crews. Another two classes are scheduled for Monday, March 19th, swing and day shift. Additional class maybe be request. Jim Davis from LPCS has also requested immediate glove bag class #020729 for workers at his facility. Brian Killand, training coordinator for FH was contacted and possible dates for the LPCS classes were given to Brian from the Center, to arrange classes with Jim Davis' folks. The Center also have normal weekly glove bag classes already scheduled.
6. (WRAP needs) Dianne Whiten, WRAP, visited the Center looking for communication systems to be worn with mask. She checked out two demo sets from CoBalt, formerly Comtronics, for show and tell at her facility. She also looked at puncture resistant gloves by HexArmor , web site: [www.HexArmor.com](http://www.HexArmor.com).
7. (Demo Material) Glenn Chronister, K-Basin D & D, checked out of the Center four different cut/puncture restraint HexArmor gloves for a demo with the Safety VP at Fluor.
8. (Next Week Demo) Set up a demonstration of the Parker Hannefin Innovative technology Trailer for Monday, March 19 at Hammer. They will demonstrate hydraulics and motion control devices to site engineers and construction personnel. [See Attached Flyer](#). Met with T. Bradfield from Groundwater concerning their need to survey the internals of several tanker trucks to determine if they needed to be

controlled. Plan is to remove some valves, take some surveys, and then remove man ways. They need to survey for fixed and loose contamination in the area beneath the man way. We couldn't determine a way to accomplish the survey remotely and give them the level of confidence needed to decide whether the tanker is or is not contaminated. Therefore, we recommended they make a manned entry into the tank even though it's a Confined Space and will have to be gas-freed before entry to ensure the tank contains good breathable air. We will continue to search for remote tools that would permit the tank to be surveyed from the man way.

9. (Request for Equipment) Received call from Portsmouth Diffusion Plant looking for ways to cut out a welded man way with tools that did not create "hot work". After discussing everything we had, we recommended he contact Tri-Tool and E.H. Wachs and obtain a man way cutting machine. See [www.tritool.com](http://www.tritool.com) and [www.wachscos.com](http://www.wachscos.com). Received message from Joel Hoyt who works for PNNL but is on a two-year assignment in Chernobyl. They are evaluating having the workers wear tungsten impregnated rubber smocks to reduce their whole body dose. Estimate is the smocks will provide a 15% dose reduction but they weigh about 8 kilograms. Forwarded a handout we developed on reducing the use of respirators, which included what happens when a worker dons a respirator and recommended he read a document written on "Radioactive Contamination Incidents Involving Protective Clothing". The report can be found at <http://www.osti.gov/bridge/servlets/purl/399712-XcBWY2/webviewable/399712.PDF> and the handout is attached. Forwarded our response to Heatherly Dukes of Unitech to see if she can provide additional information on the affect of wearing heavier clothing. She responded that additional weight on a worker's extremities will result in some lost efficiency and fatigue. For clothing on the torso, the additional weight will reduce the ability to move and the added material may reduce the clothing's ability to dissipate heat, which can more dramatically affect the worker's ability to perform efficiently than weight. She will check for military reports on this subject.

10. (Ventilation Needs) N. Willis, an Operations Coordinator from the new Maintenance Shop stopped by to look at vacuum cleaners. They need to improve their capture of Hexavalent chromium that escapes during cutting and grinding of metal. Gave them Nilfisk brochures and showed him several models. They have recently purchased some new downdraft tables but apparently have problems with routing the vent ducts. Gave them some notes we made after reading a library book on how to install a vent system in a home shop. See Attached Notes. Also showed him the Industrial Ventilation, A manual of Recommended Practice and the diagrams in the manual that show the optimum location for installing ventilation on shop tools and equipment. See <http://www.acgih.org/store/> and scroll down to the manual. Recommended they contact NFS/Radiation Protection Systems and talk to their ventilation trouble-shooters at [www.nfsrps.com](http://www.nfsrps.com).

11. (PBS application and Need for D&D info) Received message from Brookhaven Lab looking for info on the D&D of graphite reactors. Gave them the link to the DOE Information Bridge and they were able to find the info they needed. This website is: <http://www.osti.gov/graylit/>. Click on "Search the Literature", check DOE Information Bridge, type in what you're searching for and select the number of reports. If more than 10 are found, you may have to click on the "MORE" button at the top of the page. Recommended that 200 LEF use Polymeric Barrier System to paint over steel that has to be immersed in water and left outside. The PBS isn't affected by UV Light and tightly adheres to the surface. LEF stated they had a problem with the PBS application, in that it bubbled and was not drying evenly. The Center suggested they contact the FH paint shop for assistance in their applying the PBS material.

## **FOR YOUR INFORMATION**

1. (New Material- Carpet Cover) Charlie Givens, a safety engineer at T Plant found a new fire retardant product for protecting carpeting. T- Plant is going to obtain a roll of the 3 mil "Carpet Cover" and place it on the floor in contaminated work areas and look for other ways to use it as a contamination barrier. This website has several other products that may be of value. Recommend you look at <http://www.americover.com/> and check them out.

2. (CCHPS) Congratulations to the following individuals that received awards from the Columbia Chapter of the Health Physics Society for 2006.

- Health Physicist of the Year - Robert Sitsler PNNL
- Operational Health Physicist of the Year - Stephanie Livesey, CH2M and Richard Buckner PNNL
- RCTs of the Year - Tomas Moreno, PNNL and Smokey Tefft, CH2M
- John P. Corley Meritorious Service Award - Paul Rittman, FFS
- Herbert P. Parker Award - Nancy Kirner, CH2M
- Lifetime Membership - Frank Roddy, DOE

3. (CCHPS) Columbia Chapter nominees for the National HPS Awards, 2006

- Joe Soldat - Candidate for Distinguished Scientific Achievement Award
- Leo Faust - Candidate for Founders Award
- Kathy Pryor - Candidate for William McAdams Award
- Mickey Hunacek - Candidate for Fellow
- Mary Ann Parkhurst - Candidate for Fellow
- Paul Rittman - Candidate for Fellow

**VENDOR CORNER**

1. (ICM Demo) Last week, ICM (International Climbing Machines) and Bartlett Inc. gave a demo of ICM's equipment at 100N for Hanford workers. The demo was well attended and there was some interest in using the technology here at Hanford in the D & D arena. ICM web site: [www.icmachines.com](http://www.icmachines.com).

2. (Demo at Hammer) There will be a demo at Hammer of Parker Hannefin Innovative Technology, Monday, March 19 at Hammer. See entry #8 above.

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