

**From:** Waggoner, Larry O

**Sent:** Friday, June 09, 2006 1:46 PM

**Subject:** ALARA Center Activities for Weeks of May 29 and June 5, 2006

**Attachments:** 90 deg end effector assy.jpg; IMG\_1741 Crop Pink 90 Almost closed.jpg; IMG\_1714 Crop Lid Picker Open .jpg; IMG\_1700 Crop Small.jpg; IMG\_1757 Crop Handle.jpg; ORNL Handout.doc; Shielding Materials.doc

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1. Conducted PHMC ALARA Council Meeting for June. Provided info to one facility on the purchase of HEPA filtered vacuum cleaners. Recommended the Nilfisk GM-80 because it has a speed controller, has an Underwriters Lab listing, and can be bought on a GSA contract. Discussed options with FFTF Radcon on constructing a shielded enclosure closer to their job that could be used to frisk personnel. Currently, they have elevated background readings that interfere with whole-body frisking close to the work area. After considering several options, recommended they contact Lanc's Industries and have them fabricate a rolling frame that would have temporary shielding attached using hooks. See [www.lancsindustries.com](http://www.lancsindustries.com)
2. Conducted Basic Containment Training for five RCTs from PFP. Attended CH2M ALARA Council Meeting conducted by Owen Berglund. 15 personnel were in attendance including several managers. Donated a pad of Adhesive Step-Off pads to CH2M Radcon staff for evaluation. These pads are sold by G/O Corp at [www.gocorp.com](http://www.gocorp.com). Forwarded message to J. Cornelison on the potential dose from a puncture wound or cut in a facility with plutonium or americium contamination. Message shows that if a worker has a wound with 3,500 dpm of alpha contamination, the potential dose is 5.5 rem effective dose and 101 rem to bone surfaces. Of course the wound would be decontaminated and surgery performed, if necessary to reduce this dose. He will use this info as part of a project to select better puncture and cut resistant gloves.
3. Received several inquiries about tools and techniques used to control contamination over the last two weeks. Decided to attach a handout on Contamination Controls used by the ALARA Center to this Weekly Report. This handout covers the basic fundamental contamination controls used at Hanford. It provides guidance on designing glove bags and containments, installing a portable HEPA filtered ventilation system, ventilation flow rate calculations and a list of fixatives used at Hanford.
4. Met with Dan Powers, who is going to work at the ALARA Center through mid-August developing an inventory program listing every tool we have at the ALARA Center. Dan is a junior in Mechanical Engineering at the University of Idaho. Plan is to bar-code everything and then add the list to the ALARA Center Website. Dan can be reached at 376-7556. Provided a tour of the ALARA Center to several mid-level managers from CH2M. Some of these personnel had been actively involved in the closure of Rocky Flats so there was a lot of discussion about the technology used to accomplish D&D.
5. SNF Radcon called with a question concerning the shielding provided by various combinations of anti-C gloves when working with sources of beta radiation. Forwarded a chart showing information published by the Brookhaven ALARA Center and an experiment conducted at 222-S Labs a few years ago. See the attached chart. Attended a committee meeting for the Hanford ALARA Workshop conducted by Owen Berglund. The Workshop is scheduled for July 18 and 19 at the Clarion Hotel. At present, there are 106 personnel registered with more coming in everyday. Cost is \$75.00 per person. Registrations will be cut off at 150 or we will exceed the maximum capacity of the conference room.
6. Received call from FFTF Engineer looking for replacement parts for an older glovebox. Referred him to PFP and suggested he contact the American Glove Box Society at [www.gloveboxsociety.org](http://www.gloveboxsociety.org). In addition, recommended he contact the persons in charge of the FMEF building and determine if there are any gloveboxes left that could be cannibalized. FMEF was a radiological work facility that was built but never used and the equipment is gradually being excessed or shipped to other facilities.

## VENDOR INFO

The new salesperson from Nilfisk will be visiting the ALARA Center on Tuesday, June 20 from 9:00 to 3:00 PM. If you have questions or would like to meet Jim Brazil, drop by. Until then, he can be reached at (206) 683-7720 or email [jbrazil@nilfisk-advance.com](mailto:jbrazil@nilfisk-advance.com).

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## FOR YOUR INFORMATION



1. Savannah River Tank Farms has begun wearing UniTrek Rubber Shoe Covers, which have different colors for each size, fit either foot, are launderable and have a thick reinforced sole for better footing. Read about them at [http://www.shopunitech.com/category.asp?catalog\\_name=Unitech%20Master&GroupID=8388](http://www.shopunitech.com/category.asp?catalog_name=Unitech%20Master&GroupID=8388) or call Dick Downard at the laundry at Horn Rapids at 375-5336.
2. Karen Albers is the new person to contact at Encapsulation Technologies. Her phone number is (509) 531-2956. If you have questions concerning applying fixatives using an aerosol fog, please call her or check the website at [www.fogging.com](http://www.fogging.com).
3. SNF has been working with Intellegation LLC to develop long handling tools to remove equipment and debris from the K Basin Fuel pools. Several photos are attached showing a few of the tools developed to date. To contact Chris Smith, email [chris@intellegrationLLC.com](mailto:chris@intellegrationLLC.com) or call (509) 539-1877 if you're interested in seeing more tools or are in need of an engineering firm to solve complex problems.
4. On Tuesday, June 13, Brian Baumann will be hosting a meeting at the ALARA Center to discuss tools and techniques needed to survey the underside of suspended waste containers without physically reaching under the load. SNF and PFP have been invited to attend and bring samples of any tools they are using. Meeting starts at 0730.
5. Forwarded article on Radiological Survey Techniques to Fluor D&D and WCH. Read this at: <http://www.osti.gov/bridge/servlets/purl/561196-jFNQ6A/webviewable/561196.pdf>
6. If your thinking about attending the Health Physics Society Meeting in January on Decontamination, Decommissioning and Environmental Cleanup see the website at <http://hpschapters.org/etchps/call.html>. They are requesting abstracts for presentations be submitted by **JULY 14**. We estimate that Hanford will be sending several personnel to this meeting.