

From: Eby, Jerald L

Sent: Friday, April 29, 2005 1:49 PM

Subject: ALARA Center Activities for the week of April 25, 2005

Attachments: Reducing Respirator Use.doc; April 2005 Activity Report.pdf; 3mvan2.jpg; Foaming Techniques.doc

Visit our web site at: www.hanford.gov/alara/

1. The week of May 2, the ALARA Center will be closed. Larry will be in Savannah River DOE site and Oak Ridge DOE site. He will be attending the SRS ALARA Workshop and then traveling to Oak Ridge to give some training on ALARA practices used at Hanford. Jerry will be at the Hanford Health and Safety Expo at the TRAC in Pasco. The Monthly Hanford Site ALARA Meeting will be held at the Safety EXPO on Wednesday, at 2:30 to 4:00. Stop by the Hanford ALARA Booth for more information. Notice of this change in place and time for the Site ALARA Meeting have been sent to the normal attendees. If you are at the TRAC and want to join the meeting, you are welcome. Jerry will be available by cell phone for emergent needs of the Center, phone # 528-3094.

2. Project Manager from PFP needed info on foaming piping before cutting. Provided the **attached information**. The Center assisted PFP operators in gathering material to perform training on foaming pipe in preparation for pipe cuts on radioactive systems. The Center gave two pieces of clear plastic pipe, 2" and 4" respectively (actual piping system size), so the operators could see the actual foaming action during their training. The Center provided a short list of do's and don'ts using foam product based on the ALARA Center's experience. MSDSs were provide for the foam products, shown at the Center.

Reviewed PFP Engineer's plan to purchase a Pullman Holt HEPA filtered wet/dry vacuum cleaner. The unit did not have a drain valve on the bottom which may be a desirable feature. Typically, PFP fills a vacuum cleaner and then disposes of it as radioactive waste rather than empty it and reuse it. If the vacuum cleaner contained liquid, they might have to remove the liquid before it could be wasted. Having a drain valve that can be lock wired shut would simplify the draining. The lock wire would prevent the valve from being opened accidentally during use. Also reminded PFP of the OSHA requirement that the vacuum cleaners need to be tested by a Nationally Recognized Testing Lab such as Underwriters Lab. The vacuum cleaner website does not indicate the units have the NRTL Listing.

3. FH Groundwater RadCon visited the Center looking a mean passing material out of well casing jack stand containment. Discussed a couple of means of accomplishing the task. Decided to add to the present glove bag with a 12" pass out sleeve. Gave the individual a glue on 12" pass out transition piece from Lancs industries, web site: www.lancsindustries.com . FH WRAP HPT's visited the Center to gather information on designing a containment for a seal change out on the process line. The Center discussed some of the glove bags available at the Center, that could be used with some modification or if time is available, design a special glove bag and have the bag manufactured by Lancs industries. Some discussion has been made at WRAP to use a tent (green house) for this work, but space restriction prevent that. The HPT's were given a glove bag with some add ons for modification to practice and train for the upcoming work. They plan to meet with Lancs Industries next week at EXPO to discuss the design of a possible glove bag.

4. EnergX taught the pilot CH2M Hill class for Radiological Containment Basic, Course #350025, at the ALARA Center training area. EnergX used glove bags, tent (green house) and other training devices from the Center for the class. 14 CH2M employees attended the class.

5. The Columbia Chapter of the Health Physics Society held their annual award dinner last Thursday night. The Operational Health Physicist of the Year was awarded to Dan Mantooth and Bill Knight, FH, for the 233S/SA open air demolition that was completed in 2004. The Radiation Safety Technologist of

the Year was awarded to Chuck Wildman, FH and Thomas Kimmel, CH2M. Health Physicist of the Year was awarded to Pam Tranbarger, Mollner Associates.

6. SRS called looking for a contact who deals with radioactive waste drum trenches. Referred them the Tom Haan at SWD for information. SRS ALARA Center's April 2005 Activity Report was received by the Center and is an **attachment** to this report.

7. Forwarded info on respiratory protection to RCT Union president. This included a document written a few years ago on Reducing Respirator Use. The article is dated, but still contains good information on what happens when a worker dons a respirator. **See Attachment**. Forwarded info from Glacier Tech on their new vests with phase-change material that can be used to mitigate heat stress. See www.coolvest.com.

FOR YOUR INFORMATION

Next week is the Hanford Health and Safety Expo and the ALARA Center will be moving to the TRAC facility in Pasco. The next PHMC ALARA Council meeting will be held on Wednesday, May 4 at TRAC at 2:30.

LESSONS LEARNED

1. PNNL recovered and disposed of approximately 63ft³ of high dose radioactive waste (failed equipment and debris) from six Hot Cells using a tracked robot. The work was conducted remotely using CCTV's inside a containment constructed around one of the Hot Cell shielded access doors. The wastes were transferred from the Hot Cells into shielded boxes staged inside the containment. The unique containment design allowed the shielded waste boxes to be staged and recovered after loading without staff entering containment. This approach resulted in an order of magnitude reduction in staff radiation dose compared to previous Hot Cell clean out evolutions.

2. WRAP has come up with a new way to mark waste drums with higher radiation readings. If the drums are located near traffic areas where workers pass frequently they could pick up unnecessary dose from the drums that have elevated readings. Workers are placing half-size orange traffic cones on top of the drums and this reminds workers to stay away from the drum. So far, workers are avoiding the drums as they pass through the areas and are not congregating near the drums.

VENDORS

1. 3M Systems and Methods Van is coming to Hanford. **See attachment**. A number of 3M representatives will be with the van to discuss a variety of 3M products and perform demonstrations. The Show will be at the ALARA Center, 200 East Area, May 31, 2005, from 9:00 am to 2:00 pm. Contact the Center for more information.

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