Fluor Hanford ALARA Center

Weekly Activity Report for December 10, 2007

Assistance, Demonstrations, Research, and Tours Provided by the Center

1. Jerry Eby attended a respirator training instructors' meeting at Hammer. Jerry presented photos of the ALARA Center respirator displays and discussed new products from Scott, 3M, Delta Protection, MSA and Bullard. Come by the Center and view the displays, or contact us if you would like any information about these companies or their new products.

2. ALARA Center personnel completed the revision of Radiological Containment Guide and the Containment Training Course to reflect new requirements of the PHMC Radiological Control Manual for inspecting and certifying containment tents and glovebags. Contact the Center if you would like more information about the Containment Guide or Training.

3. A Savannah River Site Radiological Engineer contacted the Center looking for methods to decontaminate the wheels and axles of railcars used to transport casks loaded with radioactive components. Apparently, the cars were contaminated every time they entered the building, even though plastic drapes and other methods are in place to prevent the spread of contamination. We discussed using a Hotsy pressure washer and Hotsy chemicals to perform the decontamination. We also discussed the use of sponge blasting, grit blasting, and the application of strippable latex paint. We provided the names of several vendors who specialize in decontamination services.

4. CH2MHill Hanford contacted the Center looking for suggestions on ways to hold samples and reduce worker dose. We recommended an EZ-Reacher tool (http://arcoa.com/) and to contact Chris Smith at Intellagration to customize the reacher tool. Chris has modified these tools to increase their pickup capacity and improve operation. Intellagration's shop and office is located at the Richland airport.

5. An Energy Northwest engineer toured the Center. He was very interested in the Excel Scaffolding that installs quickly without tools. Installation and removal of scaffolding is usually critical path work at Energy Northwest during their outages. More information about the scaffold is available at http://www.excelscaffold.com/. Vit Plant personnel also indicated they were interested in the Excel Scaffolding during a recent tour. Each facility took brochures and a CD explaining how the scaffolding works for their evaluation of the scaffolding.

6. A CH2MHill Hanford operator stopped by with a vacuum cleaner HEPA filter we had loaned him a month ago. He needed help on attaching it to a glovebag sleeve. We gave him an empty plastic peanut butter jar that just fit into the filter inlet and recommended he cut out the bottom of the jar and RTV it in place. He headed to the PFP plastic shop to see if they had another option.

7. Larry Waggoner forwarded a message to Site Radcon Managers, ALARA Coordinators, and other key personnel concerning the annual awards for the Columbia Chapter of the Health Physics Society. We are looking for nomination packages for national awards and the HPT, Operational Health Physicist and Health Physicist of the Year. Personnel have until January 15, to submit their nomination package to Richard Pierson at Mail Stop J2-40.

8. The Center forwarded several Power Point presentations to L. Zinsli for review. He is organizing a presentation for new D&D workers and RCTs that will be ready this February. ALARA Center offered our assistance with some of the presentations.

Please send us you comments, questions and lessons learned.

9. PNNL Radcon contacted the Center to get information about disposable protective clothing for potential use on an upcoming job. We suggested Tyvek and Orex. The websites are http://www2.dupont.com/NOWApp/DPPRequestGateway/0/5/?command=VCProductFamilyIntro&prod=1032 and www.orex.com.

10. An FFTF Engineer is working on a project that involves cutting a vertical metal wall with a metal-cutting skill saw. They want to examine the Evolution saw we have at the Center to determine if modifications to add a vacuum cleaner connection port and chip collector are possible. The Evolution saw is capable of cutting up to 0.5-inch mild steal at 24 inches per minute. We also forwarded the Engineer the ALARA Center Fixative List Rev. 11.

New Process, Tools, or General ALARA Information

1. Jeff Hunter attended QMAP training in an effort to have the ALARA Center help radiological engineers perform data searches for wells and waste sites information to support radiological work planning. QMAP is a program that facilitates access to Waste Information Data System (WIDS), which provides a traceable source of information about environmental interest at Hanford. The system documents historical information, and tracks investigations, remediation, and closure-action activities under the Tri-Party Agreement. QMAP starts with a Hanford map and then can zoom down on specific waste sites the obtain information about that site using the WIDS system.

2. Attached is an ALARA Workshop invitation and registration form for your review. There is room available for attendees and presenters. If you would like to present a recent success or a lesson learned, submit your abstracts by January 4, 2008 (submittal and registration information attached). The Workshop Committee has submitted a request for continuing education units to obtain credit to support your certifications.

3. Torque arms, manipulators, material handling, and automation solutions can reduce personnel dose, help prevent ergonomic related incidents, and keep people out of hazardous environments. Several companies offer these systems “off the shelf” or will custom design a system specific to your needs. Search the internet using key words such as: “material handling”, “manipulator”, torque arm”, etc. The examples below are from GCI Inc. (www.gcilift.com) and show some of the different possible uses. The systems can be designed to handle most materials, drum handling and waste containers are common applications.



4. In 2003, DOE issued a revision to the DOE Handbook on Nuclear Air Cleaning. It can be found at http://www.hss.energy.gov/NuclearSafety/techstds/standard/hdbk1169/index.html. The document contains good guidance information that is worth knowing. We recommend reading Chapter 6 on "Small Air Cleaning Units" and Chapter 8 on "Testing".

5. Advanced Infrastructure Technologies (www.avancedworld.com) provides camera systems that could be very useful inspecting rooms, tanks and piping that are located in high radiation or contaminated areas. The Quickview camera (right) is hand held and can be extended into a room or tank to perform an inspection, take an instrument reading, or look for a leak. The six-wheel drive crawler (below) is steerable and can be run into a room or environment that people could not enter. The Envirocam (below) can inspect valve internals or crud traps inside piping. Remote reading dosimetry or TLDs attached to these camera systems would obtain dose rate information and smears from wheels or wire would provide contamination information to support work planning.

Decommissioning and Deactivation Activities and Information

1. The U.S. Nuclear Regulatory Commission (NRC) met on December 12, to provide an update on decommissioning activities at a former nuclear fuel manufacturing facility in Windsor Conn. owned by ABB. Several buildings on site have been demolished and the waste shipped off-site to a licensed disposal facility. The current decommissioning plan for the site is available in the NRC's electronic document system at http://www.nrc.gov/reading-rm/adams/weg-based.html.

2. The D&D Knowledge Management Information Tool developer, Florida International University Applied Research Center (FIU-ARC), participated in the Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group Meeting held in Dallas, Texas on December 7, 2007. FIU-ARC updated the group in the development of a D&D Knowledge portal. FIU-ARC also conducted a "life" remote presentation of the current "beta" version of the D&D Knowledge Management Information Tool (D&D KM-IT) system. DD/FE made valuable recommendations to the system. FIU has identified a dedicated server for deploying application. This server will run Windows Server 2003, Internet Information Server as application server and SQL Server as the database server. The system is expected to be ready for your use in February 2008.

3. To view a presentation on "Open Air Demolition of Facilities Highly Contaminated with Plutonium" visit http://www.osti.gov/bridge/servlets/purl/908296-AyQm2A/. Recently we had provided comments to DOE HQ on Guidelines for Engineers Planning D&D Projects by Andrew Szlagyvi. The above presentation included some things that DOE HQ might want to include so we forwarded that information to them.

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Contacts

Come visit us at the Fluor Hanford ALARA Center; we are located on the Hanford site at 2101M/200E/226. We will do our best to help you with your radiological engineering, ALARA, and D&D challenges. You can also send us questions, comments, and your lessons learned via e-mail or you can contact us by phone. Contact information is below.

Jeff Hunter	(509) 373-0656, Cell (509) 948-5906, jeffrey_l_hunter@rl.gov
Larry Waggoner	(509) 376-0818, Cell (360) 801-6322, larry_o_waggoner@rl.gov
Jerry Eby	(509) 372-8961, Cell (509) 528-3094, jerald_l_eby@rl.gov

ALARA Center Website: www.hanford.gov/rl/?page=974&parent=973

Please help us keep our e-mail address list current by letting us know if you would like added or removed from our distribution and by keeping us informed of any e-mail address changes. Thank you for your help. We look forward to hearing from you.

Attachments

1. ALARA Workshop Invitation
2. ALARA Workshop Registration Form

July 16, 2007

Dear Prospective Vendor or Guest:

HANFORD ALARA WORKSHOP – "ALARA…From the Beginning"

You are invited to participate in the Hanford ALARA Workshop scheduled for March 4 & 5, 2008, at the Clarion Hotel and Conference Center in Richland, Washington.

The goal of this workshop is to promote the increased implementation of new and effective ALARA techniques in today's work environment while increasing attendees' knowledge of the availability of ALARA protective measures. Pre-registration for this event is required no later than January 15, 2008.

Registration fees are $75.00 per person

This workshop will include presentations from many of the Hanford contractors. It is our belief that your company or site has many interesting ALARA experiences to share and we would like to benefit from your experience.

If you are interested in presenting your ALARA lessons learned or success stories or simply attending to increase your programs ALARA effectiveness and/or awareness, please contact either:
Lee Livesey @ 509-308-7650/509-373-1975 or
Owen Berglund @ 509-376-9035/509-308-4962.

Respectfully,

O. D. Berglund, Chairman
Hanford ALARA Workshop

Hanford ALARA Workshop
"ALARA…From the Beginning" March 4 & 5, 2008
REGISTRATION
(PLEASE PRINT)

Name: _____

Title or Position: _____

E-Mail Address: _____

Address: _____

_____

Representing: _____

Site: _____

Check one: [ ] Presenter [ ] Guest

Registration fee is $75.00 per person. Send checks payable to:

CH2M HILL Hanford Group, Inc.
P.O. Box 1500 C/O Owen Berglund R1-05
Richland, WA 99352

CH2M HILL employees submit an approved CACN _____ COA _____

Registration deadline is January 15, 2008.
Contact Owen Berglund @ 509-376-9035 / E-mail Owen_D_Berglund@rl.gov or
Lee Livesey @ 509-308-7650 / E-mail Lee_M_Livesey@rl.gov for details.

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