Hanford ALARA Center and D&D Knowledge Management Hotline Information Update

September 23, 2010

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ALARA Center Activities and Information

1. A WRAP planner visited the ALARA Center to determine how to make an adaptor to connect a portable HEPA unit to a filter bank sample port. The portable HEPA was necessary to prevent contamination from being blown back into a clean area during maintenance and testing. I suggested using a 40 CFM HEPA filter with a PVC plastic adaptor shaped like a glovebag arm. The adaptor would hold the 40 CFM HEPA filter at one end and connect to the sample port at the other. The plastic sleeving may need an interior frame. The planner will take the idea back to his team for evaluation. 40 CFM HEPA filters are available at Lancs Industries (http://lancsindustries.com/products/supplies.html).

2. Frham Safety has set up a PPE display in the ALARA Center that focuses on protective clothing used in radiologically and chemically contaminated areas. Frham has information sheets detailing the technical parameters of their PPE. They have also provided PPE samples for your evaluation. You are invited to visit the ALARA Center to see Frham's display. Visit http://frhamsafety.com/ to see the complete line of Frham products.

3. I met with Piercan USA to discuss their new glovebox breach detector (photo below). The breach detector is a passive in-situ system developed at Los Alamos National Laboratory that measures pressure loss to identify leaks. This system is far more accurate identifying small holes in gloves than visual inspections. For more information about the breach detector visit http://mri-company.com/breach.html and for more information about Piercan products visit www.piercanusa.com.

4 A CHPRC D&D team toured the Center looking for ideas to cut up a stainless steel slab tank 18 to 21 feet long, three and a half feet high, and four and a half inches thick. Their initial plan is to use fixatives inside the tank and cut the tank into smaller more manageable pieces for disposal. I suggested they modify an Evolution circular metal cutting saw to add a connecting port in the chip collector to attach a vacuum cleaner. The Evolution has specialty blades made to cut stainless. Visit http://www.evolutionpowertools.co.uk/us/evolution_evo230x.html for more information about the metal cutting Evolution circular saw.

5. The Gilian 5000 (photo below), manufactured by Sensidyne for IH and radiological air sampling, is durable and capable of long run times, and good for high back-pressure applications. The four-button design makes the pump easier to understand and operate while providing full access to programmable modes and settings. A live flow display shows real-time flow, total sample time, and volume sampled. The pump runs on NiMH batteries and has an "auto-restart" feature in case the sample line gets pinched. For more information visit www.sensidyne.com or contact Dan Bingham at 919-349-0934.

D&D Hotline Activities and Information

1. I attended the American Nuclear Society Decommissioning, Decontamination and Reutilization topical meeting and Technology Expo in Idaho Falls, Idaho. Keynote speaker Richard Provencher, manager of DOE Idaho Operations Office, provided his insights and experiences with successful D&D projects. Technical sessions covered U.S. commercial decommissioning projects, international decommissioning projects, DOE D&D projects from across the complex, and best practices and lessons learned. Please contact me if you would like specific information regarding technical sessions or presentations given at the topical meeting. Information about the conference is available at http://ddrtopical2010.org/?page=program.

2. The EFCOG D&D and Facility Engineering Working Group met in Idaho Falls, Idaho on September 1. The topics covered were Florida International University's draft D&D promotional video, status of the working group's lessons learned to be published, gathering comments for a draft guidance document to help clarify D&D requirements for structural and electrical codes, and review of a field-generated list of D&D issues for the working group to consider taking action on. Please contact me if you would like more information about a specific agenda item. For more information about the D&D and Facility Engineering working group visit http://www.efcog.org/wg/dd_fe/index.htm.

3 The new DeWALT D25980K (photo below) heavy-duty pavement breaker with cart is worth your evaluation if your project is breaking pavement in hard to reach areas. The breaker comes with a cart so it can be transported to places that might be otherwise difficult to reach. The breaker also comes with a vibration control system that is said to reduce vibration up to 70%. For more information about the DeWALT D25980K pavement breaker, visit http://www.dewalt.com/tool-categories/hammerdrills--hammers-demolition-hammers.aspx#.

Contact Information

We invite you to visit the Hanford ALARA Center located on the Hanford Site in Building 2101M in 200 East, Rooms 220 to 226. The Center's focus is on supporting your project's safety, radiological engineering, ALARA, and D&D challenges. You also can send your questions, comments, and lessons learned to me via e-mail or contact me by phone. Additionally, I would be happy to come to your site to assist with your project's challenges. My contact information is below.

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Other helpful links are:

Hanford ALARA Center: www.hanford.gov/rl/?page=974&parent=973
D&D Knowledge Management Tool: dndkm.arc.fiu.edu/dndkm/
SRS ALARA Center: www.srs.gov/general/programs/alara/alara_center.htm
Department of Energy Hanford Site: www.hanford.gov/
Virtual Hanford Tour: www.hanford.gov/?page=326&parent=317
Dade Moeller: http://www.moellerinc.com/index.php
Mission Support Alliance: http://www.msa-hanford.com/