

Hanford ALARA Center and D&D Knowledge Management Hotline Information Update December 17, 2009

ALARA Center Activities and Information

1. The Center conducted six Containment Training courses for Washington River Protection Solutions and CH2MHill Plateau Remediation Company employees. The course includes a classroom presentation, a tour of the ALARA Center, hands-on taping exercises, a glovebag building exercise, and a tour of the PFP Plastic Shop to see how containments are made. The goal is to prepare students for all phases of containment work.
2. Allegro Industry (<http://www.allegrosafety.com/>) has a complete line of wrist supports and gloves with wrist supports built in (photos below) that were designed to address Carpal Tunnel Syndrome and to help prevent wrist strains. You should consider wrist supports if you do repetitive work that could result in wrist injury or if you do work that could result in wrist strain. Most wrist supports help maintain a neutral position at the wrist while allowing full movement. The ALARA Center has a pair of wrist support gloves that you could try on to see if they might help you with your work. I also suggest that you contact your company safety professional to discuss any issues that you are having with your wrists.



3. An offsite contactor requested information about arc flash rated respirators to work electrical equipment located in a beryllium contaminated area. I contacted several respirator vendors and found that none of them make arc flash rated respirators. The Hanford Site Respirator Committee had some data regarding the issue which was forwarded to the offsite contractor.
4. The Brock Optronics Extendacam (photo below) is a self-contained, lightweight, retractable video inspection boom pole system, extending from 5 feet to 16 feet. The 30 mm diameter high resolution color camera with 6 bright LED lamps is mounted on a tough metal goose neck on top of the pole, which can be oriented into any position from 0 - 180 degrees. For more information on the Extendacam or other Brock Optronics products visit <http://www.bockoptronics.ca/firefighting/pages/bock.html>.



Page 1 of 3

**Hanford ALARA Center and
D&D Knowledge Management Hotline
Information Update
December 17, 2009**

5. ALARA Center personnel toured the Environmental Restoration Disposal Facility (ERDF) and observed waste processing and container transfer area work. ERDF has undergone several recent upgrades that have improved facility production and safety. ERDF personnel also discussed future facility upgrades.

D&D Hotline Activities and Information

1. KT-Grant, Inc. offers a variety of remote controlled demolition equipment (example photo below) which includes different models and sizes of radio controlled track mounted equipment. KT-Grant offers diggers, chemical vessel tear out machines, loaders, and much more. Visit http://www.kt-grantinc.com/equipment/standard_equipment.htm to see if KT-Grant has the remote demolition equipment your project might need.



2. D&D Engineers from WCH contacted the ALARA Center because they were interested in applying fixatives in hard to access areas. I suggested they look at BETE Fog Nozzle, inc. (http://www.bete.com/spraypatterns/tank_index.html) because they have video demonstrating spray patterns of several nozzles which may help them select the nozzle with the best pattern for their needs. I also suggested they look into Encapsulation Technologies (www.fogging.com) fogging methods as a possibility to apply the fixative.
3. GE Sensing and Inspection Technologies representatives Rich Gallagher (phone: 253-427-8418) and Nick Clyma (Phone: 425-210-4729) visited the ALARA Center to demonstrate ultrasonic inspection equipment, thickness gauging equipment and remote visual inspection equipment. Visit <http://www.geinspectiontechnologies.com/en/index.html> to learn more about GE inspection technologies or contact Nick or Rich directly.

**Hanford ALARA Center and
D&D Knowledge Management Hotline
Information Update
December 17, 2009**

4. CHPRC Engineering contacted the ALARA Center to get information on portable heating equipment for U-Plant canyon. Insulators are removing asbestos insulation and their spray fixative is freezing instead of keeping the material moist. We helped them to select a heating system that would work for them and contact Horizon Distribution to obtain the heater and ducting.

5. Tim Taylor, Audio-Video Systems Consultant for R. Brooks Associates, visited the ALARA Center to demonstrate camera systems and other Brooks' products. Brooks is a leader in remote/robotic visual inspection technologies for commercial nuclear power and the Navy carrier program. For more information about Brooks products visit <http://www.rbrooks.com/>.

Contacts

You are invited to visit the Hanford ALARA Center located on the Hanford site in building 2101M in 200 East rooms 220 to 226. The Center is focused on supporting your project's safety, radiological engineering, ALARA, and D&D challenges. You can also 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.

Jeff Hunter (509) 373-0656, Cell (509) 948-5906, jeffrey_1_hunter@rl.gov

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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
HAMMER: www.hammertraining.com/
Dade Moeller: <http://www.moellerinc.com/index.php>
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