



## Hanford ALARA Center and D&D Knowledge Management Hotline Information Update October 21, 2010



### ALARA Center Activities and Information

1. An engineer from Atomic Energy of Canada Limited contacted the ALARA Center to get information about Polymeric Barrier System (PBS), a fixative commonly used at Hanford. I sent documents located on DOE's Information Bridge (<http://www.osti.gov/bridge/index.jsp>), in the search box type "Polymeric Barrier System"), articles from the D&D KM-IT (<http://dndkm.arc.fiu.edu/dndkm/Default.aspx>, click the "hotline" tab, click the "search" button and search all categories and type "PBS" in the search box), and the Bartlett Nuclear PBS information sheet (<http://www.bartlettinc.com/sp.cfm?pageid=1760>). I have samples of PBS available in the ALARA Center if you would like to test PBS for yourself.
2. 3M visited the ALARA Center to demonstrate their new Ultimate FX Full Facepiece respirator along with various welding face pieces. The Ultimate FX has a large lens that increases peripheral vision and a Scotchgard™ (stain-resistant treatment) protected lens. 3M left several respirators and welding face pieces on their display in the ALARA Center for you to evaluate. Visit [http://solutions.3m.com/wps/portal/3M/en\\_US/Health/Safety/?WT.mc\\_id=www.3M.com/OcCSafety](http://solutions.3m.com/wps/portal/3M/en_US/Health/Safety/?WT.mc_id=www.3M.com/OcCSafety) for more information about 3M's respiratory equipment.
3. Intellegation developed a long reach tool (photo below) to obtain smear samples in hard to reach places and areas that would be hazardous for a technician to take a smear. Do not reach under suspended loads or lean from a pipe in the overhead to get a smear. The reach tool is designed to help you obtain a smear safely and where you need it from to ensure that you have a representative sample. Visit <http://intellegrationllc.com/products/rad-con-smear-sampler-tool/> to learn more about the tool.



4. The ALARA Center provided four sets of the OREX Extreme coverall to CH2MHill Plateau Remediation Company's Solid Waste Retrieval group for testing. The OREX Extreme is made of tri-laminated OREX fabric that has radio frequency sealed seams which makes them a good choice when working in wet conditions. Waste Retrieval works in conditions that are often wet or damp. Visit <http://www.orex.com/> for more information about OREX products. The ALARA Center has more OREX Extreme and Ultra coveralls available for your project to evaluate.



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### D&D Hotline Activities and Information

1. Specialty Equipment makes custom remote drum handling equipment such as fillers, conveyors, and palletizers. View this YouTube video at <http://www.youtube.com/watch?v=XakcmIUw16M&feature=related> to see an example of what can be accomplished. It's important to keep in mind that drum handling technology has improved significantly over the past several years and it is worth your time to revisit your current drum handling practices. Visit <http://www.specialtyequipment.com> to learn more about Specialty Equipment products.
2. Buffalo Turbine manufactures the "Monsoon" (photo below) which can be powered by gas, diesel, electricity, or can even be hydraulically drive. Oscillating units are available. The Monsoon can produce 25 gallons per minute of mist with coverage of 150 to 175 feet. Buffalo Turbine has other dust suppression machines available that might better fit your project's needs. Visit <http://www.buffaloturbine.com/monsoon.html> to see Buffalo Turbine's complete line products.



3. The National Demolition Association is a good place to benchmark your project's practices with commercial D&D practices. It's also a good place to get information about the equipment and services your project is considering using. Visit the National Demolition Association buyer's guide at <http://ndademolitionindustrybuyersguide.com/> to learn about equipment and services that might benefit your project. You will also find the National Demolition Association website (<http://demolitionassociation.com/>) to be a great source of information for upcoming events, environmental issues and safety issues.
4. Engineers from the Savannah River Site requested the 100 K Stack Removal work package to benchmark their stack removal practices. CH2MHill Plataea Remediation Company forwarded the documents to the ALARA Center; the documents were released and sent to Savannah River. Contact the ALARA Center if you would like a copy of the 100 K Stack Removal work package.



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5. ALARA Designs, Inc. has developed a long reach hot tap tool (photo below) that will help keep your workers out of harm's way while applying a hot tap. The tool can be viewed at <http://www.alaradesigns.com/safe-saddle.html>. ALARA Designs also makes other long reach tools that may interest you. Visit <http://www.alaradesigns.com/index.html> to see more ALARA Designs tooling.



### 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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Please help me keep the report distribution current by letting me know if you would like to be added or removed from distribution and by letting me know when you change your e-mail address.

Other helpful links are:

Hanford ALARA Center: [www.hanford.gov/rl/?page=974&parent=973](http://www.hanford.gov/rl/?page=974&parent=973)

D&D Knowledge Management Tool: [dndkm.arc.fiu.edu/dndkm/](http://dndkm.arc.fiu.edu/dndkm/)

SRS ALARA Center: [www.srs.gov/general/programs/alara/alara\\_center.htm](http://www.srs.gov/general/programs/alara/alara_center.htm)

Department of Energy Hanford Site: [www.hanford.gov/](http://www.hanford.gov/)

Virtual Hanford Tour: [www.hanford.gov/?page=326&parent=317](http://www.hanford.gov/?page=326&parent=317)

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

Mission Support Alliance: <http://www.msa-hanford.com/>