



## Hanford ALARA Center and D&D Knowledge Management Hotline Information Update August 12, 2010



### ALARA Center Activities and Information

1. I attended the Hanford ALARA Workshop and co-presented the D&D Knowledge Management Information Tool (D&D KM-IT) with Dr. Leo Lagos of Florida International University. The presentation included a live demonstration of the D&D KM-IT and a discussion of the system's capabilities. You are invited to visit the D&D KM-IT webpage at [dndkm.arc.fiu.edu/dndkm/](http://dndkm.arc.fiu.edu/dndkm/) and test the system for yourself. Please contact me if you need any help using the tool.

Our special thanks to Washington River Protection Solutions for sponsoring the ALARA Workshop and to Owen Berglund for coordinating the event.

2. A WRAP Field Work Supervisor contacted the ALARA Center to discuss tools that could be used to cut plastic sleeving (umbilical twisted seals, horsetails, etc.) from gloveboxes or glovebags when shears are no longer effective due to the size of the seal. PVC pipe cutters, hose cutters and tube cutting tools (photos below) are all common solutions to this problem. Technique can work if you have enough plastic sleeving on the glovebox. Use two umbilical seals with enough distance between them to make a third smaller seal between the two isolating seals. The outer seals limit any potential loss of contamination control between the object you are removing and the glovebox. Make the middle seal small enough to cut with shears.



3. Nilfisk-Advanced visited the ALARA Center to introduce three new vacuums. While in the Center they met with several Hanford contractors to discuss potential solutions to project specific challenges the contractors were experiencing. Nilfisk has agreed to ship their new mercury vacuum, the GWD255 drum top Vacuum, and the Nilfisk CFM S2 vacuums to the ALARA Center for Hanford workers to evaluate. For more information about Nilfisk products visit <http://www.nilfiskcfm.com/>.
4. North Safety has set up a display of respirators and safety products in the ALARA Center respirator room. Hanford personnel are invited to evaluate North safety products first-hand to determine if they would be useful at their project. For more information about North Safety visit [www.northsafety.com](http://www.northsafety.com) or contact Eric Johnson at 530-503-5045.

### D&D Hotline Activities and Information

1. Much of our remaining D&D work will be in very hazardous environments which makes customized remote control products a real ALARA need. Fomotech International Corporate is an industrial radio remote controller (photos below) manufacturer that specializes in customized products based on customers' unique needs. Fomotech has an excellent innovation capability and a complete line of products that can meet many different project needs. Fomotech has the capability to design, manufacture and service industrial radio remote controllers. For more information visit <http://www.fomotech.com/>.



2. Roberto Mandanas and Garry Edgington of Cellular Bioengineering tested DeconGel (example photos below) for CH2M Hill Plateau Remediation Company at 100 K. DeconGel is a type of stripcoat used to decontaminate surfaces such as concrete floors, glove boxes, hoods, casks, painted and unpainted surfaces. DeconGel binding properties are known to trap and encapsulate a wide spectrum of radioisotopes and hazardous chemicals. The test included painting a highly contaminated demolition claw to determine how effectively DeconGel could decontaminate the claw. The test results should be published in the next few weeks. Contact the ALARA Center if you would like samples of DeconGel. For more information about DeconGel or Cellular Bioengineering visit [www.decongel.com](http://www.decongel.com) or contact Roberto directly at (708) 557-1912.





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3. Mega-Tech Services visited the ALARA Center to discuss their new hydraulic pipe cutter they call "The Beast". Mega-Tech has agreed to send a pair of "The Beast" cutters to the ALARA Center for Hanford workers to evaluate. For more information about Mega-Tech Services visit <http://www.mega-techservices.biz/>.
4. A PFP Closure engineer visited the ALARA Center to discuss equipment used to measure pipe wall thickness to support PFP pipe removal. PFP recently bought GE ultrasonic equipment to test for system fluid level so I suggested they look at GE corrosion gauges and precision gauges to measure thickness. A corrosion gauge with dual-element transducers is a common inspection tool used to measure remaining wall thickness of components such as pipelines, pressure vessels, and storage tanks. Precision gauges use single-element transducers to provide the thinnest range and highest degree of accuracy possible. Applications for precision gauges include metals and a variety of non-metal material (i.e., glass, ceramic, plastic). For more information about GE's corrosion or precision gauges visit [http://www.geinspectiontechnologies.com/en/products/ut/thickness\\_gauges/index.html](http://www.geinspectiontechnologies.com/en/products/ut/thickness_gauges/index.html)

### 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.

Jeff Hunter: (509) 373-0656, Cell (509) 308-5627, [jeffrey\\_l\\_hunter@rl.gov](mailto:jeffrey_l_hunter@rl.gov)

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/>