

**Hanford ALARA Center and  
D&D Knowledge Management Hotline  
Information Update  
February 27, 2009**

**ALARA Center Activities, Equipment, and Information**

1. A Tank Farm Field Work Supervisor and Craft representative visited the ALARA Center to discuss ideas about containing a jumper while transferring it from a pit to waste box. The jumper is contaminated and known to contain high dose rate material inside the jumper. We discussed several options including the use of fixatives and a custom plastic waste bag to contain contamination to support placement in the waste box. The PFP plastic shop helped with potential waste bag designs that would keep a measure of distance between personnel and the jumper during installation. The Tank Farm representatives are taking the ideas back to their work planning team for further evaluation.
2. A Washington Closure Hanford (WCH) radiological engineer contacted the Center to discuss cutting 6” stainless piping in a high dose rate area. I suggested a CS Unitech reciprocating saw with a pipe clamp mount (to keep personnel at a distance), a “HSS-SL blade (for stainless), and to use ProLube while cutting if possible. Visit CS Unitech web site at [www.csunitec.com](http://www.csunitec.com) for more information about CS Unitech products.
3. The ALARA Planner for 100 K West visited the ALARA Center to discuss ventilation equipment and supporting equipment that could be used to cut fuel pool tools in preparation for disposal. We focused on modifying a NFSRPS (<http://www.nfsrps.com/>) drum inspection hood (photo below) because they already had one and it was designed to be used with NFSRPS HEPA Ventilation equipment which they also own. We also discussed making a hood with plastic and using existing ventilation equipment. The ALARA Planner will present these options in a future team planning meeting.



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4. The ALARA Center hosted PFP Operation performing classroom and mock-up training for glovebox cleanup work. The Nuclear Chemical Operators reviewed procedures, the RadPro (decon agent) MSDS, and techniques that have proved successful in past campaigns. The NCOs applied water (to simulate RadPro) in a glovebox to demonstrate the techniques they learned in class. The skills learned will be used in the near future to cleanup and remove gloveboxes from PFP as part of building D&D.
5. WCH personnel are trying to identify the owner of four concrete culverts on wooden pallets (photo below) that are located at 100 H. If no one claims them they will be made available to any Hanford contractor who has a need for them. The culverts would make a good temporary shield for 55 gallon drums. Contact Doug Bowers at 531-0701 if you have information about the owner or if you would like to claim them for your project.



6. The Center provided a 15 gallon poly bottle and vent assembly to WCH contract personnel to support draining a potentially contaminated pipe at 100 N. The Center often provides equipment to Hanford personnel if agreement can be reached to replace the equipment or if vendors give permission to loan the equipment.

**D&D Hotline Activities, Equipment, and Information**

1. An enhancement to the D&D Knowledge Management Information Tool (D&D KM-IT) system is in progress to allow registration and full system use to the international D&D community. Currently, the international community can access the system and use features, such as searching through posted problems and solutions. However, they are not able to directly post a problem at this time. The D&D KM-IT technical staff is working on the system upgrade and expects to have the enhancement completed in the next few weeks. Updates on the enhancement's progress will be posted as they become available. At this time if a user has any questions or wishes assistance in posting a problem during this interim, please contact the ALARA Center at (509) 373-0656. The web address for the D&D KM-IT is <http://dndkm.arc.fiu.edu/dndkm/>.



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2. Nick Clyma of GE Inspection Technologies visited the ALARA Center on February 19, from 10:00 AM to 1:00 PM. He met with representatives from Washington River Protection solutions, WCH, CH2M Hill PRC, and Bechtel to discuss GE's remote visual inspection systems. Visit <http://www.geinspectiontechnologies.com/> to learn more about GE visual inspection equipment.
3. The Contract Journal's Blog section, [http://www.contractjournal.com/blogs/digger-blog/2008/12/hill\\_climbing\\_menzi\\_muck\\_excav.html](http://www.contractjournal.com/blogs/digger-blog/2008/12/hill_climbing_menzi_muck_excav.html), had an interesting video of a Menzi Muck (a walking excavator produced in Switzerland – photo below) working on an extreme slope. The slope pictured is far steeper than would be allowed here at Hanford but it does demonstrate that a Menzi Muck could be a useful tool for special applications. To learn more about Menzi Muck excavators visit <http://menziusa.com/>.



4. Savannah River Site published a report regarding an innovated sludge removal process that can be view on the DOE Info Bridge at <http://sti.srs.gov/fulltext/SRS-REG-2008-00004.pdf>. The report covers mechanical sludge removal using a waste on wheels system. The system is designed to be relatively mobile with the ability for many components to be redeployed. The report also includes lessons learned, and is worth your review.

### Contact Information

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 assist you directly with your project challenges at your site. My contact information is below.

Jeff Hunter      (509) 373-0656, Cell (509) 948-5906, [jeffrey\\_1\\_hunter@rl.gov](mailto:jeffrey_1_hunter@rl.gov)



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Please help me keep the report distribution e-mail address list current by letting me know if you would like added or removed from distribution and by keeping me informed of any e-mail address changes.

Other helpful links are:

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

D&D Knowledge Management Tool Website: <http://dndkm.arc.fiu.edu/dndkm/>

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

Department of Energy Hanford Site: <http://www.hanford.gov/>

Virtual Hanford Tour: <http://www.hanford.gov/?page=326&parent=317>