

Fluor Hanford ALARA Center and D&D Knowledge Management Hotline

Activity Report for July 14-18, 2008

ALARA Center Activities and Information

1. Lancs Industries contacted the Center to inform us they now carry the OmniAire 100V air filtration unit (photo below). The OmniAire 100V is a modular portable air filtration system primarily used to ventilate glovebags and hoods. The unit has an adjustable flow rate from 40-120 CFM. Hanford Tank Farms is purchasing an OmniAire 100V and we will track it through the initial testing and let you know how it works. It is made from inexpensive materials and should work well for Tank Farms. For more information about the OmniAire 100V, contact Lancs at (425) 834-6634 or visit <http://www.omnitecdesign.com/OA100V%20Air%20Filtration%20System.htm>.



2. The Center provided ALARA work planning procedures and forms to Washington Closure Hanford for benchmarking purposes. Washington Closure is reviewing their work planning process for efficiencies and improvements, and requested information about how other Hanford contractors perform radiological work planning.
3. Three Fluor Hanford sheet metal workers toured the ALARA Center. They were interested in the tools we have on display. They were also interested in containments. None of the workers had any experience working in tents or glovebags and were looking forward to using them. We encourage craft to visit the Center periodically to look at the equipment we have on display and to discuss their radiological work experiences.
4. The Center conducted Containment Training for three Fluor Hanford technicians, and a PNNL trainer, and a CH2MHill Hanford field work supervisor. The class includes a presentation, tour of the ALARA Center, a hands-on exercise, and a tour of the Fluor Hanford Plastic Shop.
5. The Center provided a copy the “Fluor Hanford Containment Guide Best Work Practices” to Argonne National Laboratory for benchmarking purposes.

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6. The ALARA Center obtained a copy of the presentations given at the last Waste Management Conference in Phoenix. We are currently reviewing the approximately 200 presentations for lessons learned and work techniques that might save dose, time, or promote a safer work environment.
7. We wrote to the National Skills Academy for Nuclear in the United Kingdom and offered to share information on tools, equipment, radiological work practices, and D&D techniques. We also forwarded a list of nuclear related websites. The United Kingdom has established an academy that will provide apprenticeships to 4,500 skilled tradesmen to fill current and future vacancies in the UK nuclear power program. The academy staff also includes active participation by the employers to ensure the training accurately prepares the students for work in the nuclear power industry.

D&D Hotline Activities and Information

1. The Center has fielded several questions about “ULPA” filters since some new vacuums started showing up at Hanford with ULPA filters rather than the standard HEPA filters. The term “UPLA” stands for “Ultra-Low Penetration Air.” ULPA filters are available in standard sizes for work stations or can be custom ordered to fit most situations. Like HEPA filters, ULPA filters are made of spun-hooked glass fiber rolled into paper-like material. An ULPA filter can theoretically remove at least 99.999% of dust, pollen, mold, bacteria and airborne particles with a size of 120 nanometers or larger from the air which are more restrictive requirements than HEPA filters. For more information about ULPA filters visit Wikipedia and search “ULPA filter” or search the web for “ULPA filter” to find out who makes and sells ULPA filters.
2. Radiodetection recently launched the RD 1000 Portable Ground Penetrating Radar System (photo below). The RD 1000 DSP displays the sub-surface map in real-time on a high-contrast LCD and features integrated digital color and gain enhancements that let the operator maximize locate quality and performance. Advanced digital filtering helps the operator to eliminate unwanted signals and provide greater accuracy. Visit www.radiodetection.com for more information about the RD 1000, or other Radiodetection products. Or search the web for other ground penetrating radar systems that may be better suited for your project.



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3. Lawrence Livermore National Laboratory requested a list of beryllium abatement contactors. We sent a list of contractors originating from a web search, the service directory of Nuclear News, and Rad Waste Solutions service directory. We also sent information about beryllium sampling.

Contacts

Come visit us at the Fluor Hanford ALARA Center; we are located on the Hanford site at 2101M/200E/226. We will do our best to help you with your radiological engineering, ALARA, and D&D challenges. You can also send us questions, comments, and your lessons learned via e-mail or you can contact us by phone. Contact information is below.

Jeff Hunter (509) 373-0656, Cell (509) 948-5906, jeffrey_l_hunter@rl.gov
Larry Waggoner (509) 376-0818, Cell (360) 801-6322, larry_o_waggoner@rl.gov

ALARA Center Website: www.hanford.gov/rl/?page=974&parent=973

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

Please help us keep our e-mail address list current by letting us know if you would like added or removed from our distribution, and by keeping us informed of any e-mail address changes. Thank you for your help. We look forward to hearing from you.