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Subject: ALARA Center Activities for the Week of January 15 and 22, 2007

Attachments: RPP - color2.pdf

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This report covers two weeks, January 15th and January 22nd, 2007. Larry is off site this week at the Health Physics Society Mid-year meeting at Knoxville, TN, giving presentations on D&D and ALARA work practices.

1. (Meetings) Fluor Hanford held their Senior Staff Meeting at the ALARA Center on Monday. Twenty two managers from Fluor were in attendance. A number of the attendees stayed after the meeting for a tour of the ALARA Center.

The Hanford Rad Con Interpretative Authorities met at the ALARA Center. The Interpretative Authorities represented each of the Hanford contractors. The purpose of the meeting was to review and discuss differences between program practices and share information on possible changes in processes and emerging issues. A follow-up meeting will occur in April 07. For any questions contact Ted Giltz (373-2134).

The ALARA Center held a basic glove bag class (020729) for six Fluor Hanford employees.

2. (Umatilla Chem Depot) Chris Dunaway from Umatilla Chemical Depot visited the Center in preparation for a large group tour that will take place on Friday, January 19th. ALARA Center staff and T. Hogg, from HAMMER attended a conference on the Integrated Project Team (IPT) in Umatilla concerning the decontamination and demolition of chemical weapons plants. Some plants are completed and there are four more existing plants that will be in D&D. After listening to the presenters we determined that a visit to the Hanford ALARA Center and HAMMER might help with their work practices and learning about the different tools and equipment used in a radiological environment. Ten managers from Umatilla and other Sites visited the ALARA Center. Provided a copy of our best handouts on work practices. We emphasized the following during the tour:

- Use of HEPA filtered vacuum cleaners with a flow control and in-line collector drum;
- Hot Taps used to drain/depressurize systems;
- Application of fixatives using equipment to change it from a liquid to an aerosol;
- Rust Doctor product that converts rusty metal with loose contamination to black magnetite with "fixed" contamination;
- Strippable latex paints and Polymeric Barrier System Sealants;
- Polyurea coatings;
- Containments and glovebags;
- Use of portable ventilation to capture airborne contamination;
- Hotsy pressure washer to decontaminate heavy equipment;
- Fixatives used at Hanford for controlling contamination spread;
- High-Tech Saws-All that can be clamped to the work so the worker doesn't become fatigued;
- Prolube lubricant that doubles the number of cuts when applied to saw blades;
- Blade plunging cutter and battery-powered shear;
- Nibblers for cutting tanks; Aage Hval from Trumpf was present for a demo. Web: www.trumpf.com
- Shrouded tooling;
- Excel scaffolding that installs/removes quickly to save schedule time; and
- Sneak thief powder and black light used to simulate contamination.

3. (Exhauster) PFP personnel were at the Center, disassembling a MAC-21 HEPA filtered Vent Exhauster. PFP have a similar unit at their facility that needs a filter change out and PFP is using the clean unit at the Center as a mockup for the actual job. See vendor section below.

4. (SWSD waste drums) An engineering Manager from Waste Management, visited the Center looking for a device to secure drums to a table for upright them at the 12-B Project. The Center showed some hydraulic finger units available from Grainger, web site: www.grainger.com. The Center is contacting other product vendors on the subject. One manufacture of drum handling gear was found and info forwarded to the Manager is Morse, web site: www.morsemfgco.com. They have drum tie down units, a Chain Tightener Kit, Part # 165KIT-P.

An HPT from SWSD contacted the Center, requesting assistance on drum removal. Some of the badly eroded drums have caused HCA issues. The Center sent pictures of a concept that Brian Oldfield, RadCon Manager SWSD, and others had worked on a few months ago. The Center contacted Lancs Industries, web site: www.lancsindustries.com. Lancs has recently manufactured some additional sample enclosure devices for waste drums for INNEL and has forwarded a set of these samples to SWSD folks at Hanford. In addition, the Center suggested covering some of the holes in the drums with Devcon, web site: www.devcon.com, Zip-Patch. The Center had a demo of the zip-patch a couple of weeks ago on a drum. A couple of the SWSD folks will visit the Center to determine if the zip-patch is a feasible product. The Center has a zip-patch kit available to give the SWSD workers for a on site demo, if desired.

5. (Ventilation duct closures) Bob Gregonis, WCH, called the Center requesting information on closures for the ends of 12" ventilation ducting on D&D projects. Suggested they contact site Fab Shop (metal) for Fabrication of end caps for 12" of contact some of the local sheet metal shops in Tri-Cities. They should have stock 12" end caps, that could be placed over the end of the open duct, taped or RTV'd on as a closure.

LESSONS LEARNED

1. From the DOE Weekly Lessons Learned Info Center: See web site: <https://www.hss.energy.gov/csa/analysis/doell/index.asp>
[Fatalities in Oxygen-Deficient Atmospheres \(Source: User Submitted - ID: DOE Just-In-Time 2006-04\)](#)
[Portable Heater Melts Disposable Coverall \(Source: User Submitted - ID: B-2007-OR-BJCETTPDD-0101\)](#)

The Office of Health, Safety and Security (HSS) is currently in the process of distributing the 2005 Annual DOE Occupational Radiation Exposure Report this week. The annual report contains the analyses of DOE and contractor personnel occupational exposure data for calendar year 2005. The report is in the process of being posted on the HSS Internet webpage at <http://www.hss.energy.gov/csa/csp/remis/>. If you require further information, please feel free to contact Nimi Rao at (301) 903-2297. In this report, there is a section 4-1 on submitting ALARA lessons learned for future reports.

2. CH2M Hill issued a report, "Lesson Learned- Use of Remote Reading Beta Dosimetry", #1B-07-004. The report is attached above.

VENDORS CORNER

1. Tom Sassmann from HDI, web site: www.horizondistribution.com and Paul Newland from Devcon, web site: www.devcon.com were at the Center. Tom dropped of literature on drum holding fixtures for Waste Retrieval. See above entry.
2. John McDonnell of NFS/RPS, web site: www.nfsrps.com, called the Center in response to PFP's needs of part for a filter change out on a Mac-21. The main issue is the NRTL certification of the unit for its electrical system certification. NFS/RPS is continuing to work on this issue and has talked directly with PFP personnel.

3. Keith Spero from MGP Instruments, web site: www.mgpi.com was at the Center on Thursday, January 25th. He updated some of the brochures and replaced a couple pieces of hardware that his group have on display at the Center. MPG is now part of Synodys, web site: www.synodys.com.

4. Quest Environmental and Safety Products, Inc, web site: www.questsafety.com, were at the Center on Thursday, January 23rd, to discuss their organization and products. They worked heavily with the Fernald DOE Site D&D, supplying PPE and other related safety material. The Center has samples of disposable PPE and a couple other items available.

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