

**From:** Eby, Jerald L

**Sent:** Thursday, September 07, 2006 1:16 PM

**Subject:** ALARA Center Activities for Weeks of August 28 and September 4, 2006

**Attachments:** Sam's Day-Client Invite.doc; August 2006 Activity Report.pdf; Excess Vit.xls  
Visit our Website at [www.hanford.gov/rl?page=974&parent=973](http://www.hanford.gov/rl?page=974&parent=973) . This report covers two weeks, activities for Weeks of August 28 and September 4, 2006.

1. Tom Haan from waste retrieval visited the Center gathering information on temporary closures. Tom pick up information on Inflatable Abatement Systems, 1-800-962-2565. Tom also picked up a supply of demo gloves from Hex-Armor, web site: [www.hexarmor.com](http://www.hexarmor.com) , the puncture/cut resistant glove. In addition, it was recommended the Center obtain samples from Turtle skin. You can find their distributors at: <http://www.warwickmills.com/Puncture-Resistant-Gloves-Distributors.html> . Tom had some questions on products from instacote, web site: <http://www.instacote.com/intro.htm> . Primarily CC Wet. Gave tom some printed information on the product.

Carroll Rust, RCT at PFP and a couple of operators visited the Center, looking for a means of removing multiple layers of paint inside glove boxes, in order to reduce the source term. Chemical removal will not work because the painted surface has a coat of RadPro covering the paint. The Center suggested using a needle gun, comes in many sizes and shapes, vendors: Nilfisk, web site: [www.pa.nilfisk-advance.com](http://www.pa.nilfisk-advance.com) , which Hanford has a GSA contract with, Novatek, web site: [www.novatekco.com](http://www.novatekco.com), and Desco, web site: [www.descomfg.com](http://www.descomfg.com) . They were also shown the Fein Multi-Master tool, web site: [www.feinus.com](http://www.feinus.com) . To the Centers knowledge, PFP tool crib has the Fein tool available.

Met with two engineers from FFTF. One was looking at products for fabricating a sleeve to bag HEPA filters. Introduced him to the PFP Plastic Shop. The other engineer was looking at different fixatives that could be used to capture contamination from residual sodium that leaked from some bagging around stainless steel assemblies. Gave him info on fixatives used at Hanford and recommended he look at [www.fogging.com](http://www.fogging.com) and [www.instacote.com](http://www.instacote.com). Also recommended he read about ALARA 1146 strippable latex paint at <http://apps.em.doe.gov/ost/>. Click on "Reports" and select the third category on Innovative Technology Reports, select "All Reports" and scroll down the alphabetical list.

2. Sent a presentation on Heat Stress Mitigation to Oak Ridge HP, that was present by Bill Smoot at the Hanford ALARA Workshop, in July.

3. The Center was contacted by John Hull (formally with CH2M) about companies that manufacture preformed temporary shielding. There are a couple of companies that sell preformed shielding for components. R.L. Mussman, at 360-874-0153 has lead shielding that has a plastic sol covering. This plastic sol has proven to be a good sealing material for lead. Radishield, sold in the US by Innovative Industrial Solutions, web site [www.i-i-s.net](http://www.i-i-s.net) , at 479-968-4266, ext 11 is a company that handles preformed shielding. Stan also has tungsten shielding, but I don't know if they are modeling it into preformed packages. This information was forwarded on to the folks at McGuire Nuclear Plant.

4. Mark Johnson from CH2M visited the Center looking for a 1 1/2" hot tap. Gave Mark brochures on Expansion Seal Technologies, web site: [www.expansionseal.com](http://www.expansionseal.com), Hot Tap, which comes in up to a 2". Called EST for a local distributor of the hot taps. All manufactured products are distributed from their main facility in Pennsylvania. Mark look at the Kitz T-Plus pipe tape, but because of possible gases, the unit is not practical to use. Called Grainger, web site: [www.grainger.com](http://www.grainger.com), in Tri-Cities and they only had a Ridgid, web site: [www.ridgid.com](http://www.ridgid.com) unit, that is very large and expensive for a one time application. Grainger did recommend to Mark two companies on the Tri-City area that could have tap unit available.

5. On September 29<sup>th</sup> HAMMER will be celebrating Sam Volpentest's Birthday. In honor of Sam, HAMMER will be open to the public for media tours and for the public to view exhibits and

demonstrations, 10:00 to 2:00. ALARA Center is interested in having room reserved in the Al Alm high bay (Practical Area) for an exhibit or to put on a demonstration somewhere inside or outside on the HAMMER campus for the media and public. See the above attachment.

Hammer has rescheduled their employee tour of the ALARA Center for the morning of 15 September, 8:00 to 12:00.

6. Eric Stam of Vista Engineering, Kennewick called about fixing contamination inside tanks. They are working with Fluor on a tank D&D project. Suggested fogging with Encapsulation Technologies, followed by a coat of PBS, by Bartlett or coating with a Poly Urea, applied by Matheson Paint in Pasco. (CH2M has two applicators they have bought for use at the Farms.) Another means of fixing contamination is the use of Rust Doctor (used to restore rusty cars), that turn the rust surface into black magnetite and encapsulates all loose contamination into fixed contamination.

7. Forwarded info to Nevada Test Site Radcon concerning the "Whirly" spray nozzles used by Tank Farms to spray fixatives prior to removing cover blocks. Forwarded info on purchasing the Hex-Armor cut and puncture proof gloves from National Safety at (509) 884-7999. See the video on the website at [www.HexArmor.com](http://www.HexArmor.com) if you have need for a glove that is much better than leather. Forwarded a request to Site and Off-Site contractors requesting they tell us what new innovations in PPE and engineering controls were used in the last year to improve working conditions. Our plan is to document the improvements and share with all sites.

8. WCH engineer called looking for info on Water-Jet Cutting. Referred him to the DOE Information Bridge at <http://www.osti.gov/graylit/>. Click on "Search the Literature", Check DOE Info Bridge, search for "Water Jet Cutting" and select the number of documents. This search results in 67 documents related to water jet cutting. The list only shows the first ten, so you have to scroll right and click on "More" at the top to get the documents from 11-67. Recommend you make this website a "Favorite" and use it to find information from the DOE archives.

9. Forwarded a list of excess tools and equipment from the West Valley DOE Site to CH2M, WTP, and key Ops managers. They have completed their Vitrification and are trying to find a good home at other DOE sites for the left over material. It can be claimed by you at no charge. All you have to do is pay to have it trucked here. If you're interested, call Michelle Schweickert at 716-942-4696. The first to claim it, gets it. To view the excess list, see the attachment above.

SRS issued their ALARA Center August 2006 Activity report. See the attached report above.

#### **UPCOMING MEETINGS AT THE CENTER**

1. Follow-up meeting is planned on use of OREX PPE and Camelbak Hydration Units. Thursday, October 05, 2006 8:00 AM-9:30 AM.

2. Held the monthly Site ALARA Chair meeting at 2420 Stevens Center on September 7th. Next meeting will be held October 5, 2006, 2420 Stevens, room 126.

3. There will be a meeting held in late September at the Center to discuss the results of the facility review of the Hex-Armor puncture/cut resistant gloves, with T-Plant, Waste Retrieval and other projects.

#### **FOR YOUR INFORMATION**

1. The National Environmental Policy Act Website is located at <http://www.eh.doe.gov/nepa/lessons.html>. It contains summaries of lessons learned that may apply to

your job. Procedure HNF-PRAC-30500 on "Hot Tapping" has been issued. It provides the requirements for welding a hot tap connection onto a pipe or vessel fabricated from ferrite and austenitic steel.

2. OE Summary 2006-10 Describes First Degree Burns from Electrical Arc Flash Available Online <http://www.eh.doe.gov/paa/oesummary/index.html>

3. The CH2M HILL ALARA Program has been asked to host a vendor demonstration (we estimate between 7-10 vendors) on November 6 and 7 at the HAMMER facility. If you are looking for information on any products or services this may be your chance to have a demonstration of the product or service. If there is a specific vendor that you would like to have provide a demonstration at this event, please provide the contact information to Owen Berglund, at 376-9035, no later than close of business September 26, 2006. This will provide us with enough time to invite the vendor and confirm their ability to attend.

**Jerry Eby**

Fluor Hanford ALARA Center of Technology  
Technology  
509-372-8961 fax 509-376-7717

**Larry Waggoner**

Fluor Hanford ALARA Center of  
509-376-0818 fax 509-376-7717