

**From:** Eby, Jerald L

**Sent:** Thursday, December 28, 2006 9:01 AM

**Subject:** ALARA Center Activities for the Week of December 18th, 2006

**Attachments:** A Simplified Approach to Mockup Training.doc; 2007 Users Group Info.pdf; Structurally Compromised Wood Crates Containing.doc

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This activity report covers two weeks, December 18th and December 27, 2006, because of the holidays. Larry and I hope everyone had a safe and happy Christmas and New Years and are looking forward to **2007**.

1. PFP personnel were at the Center, cleaning up from the 188 vendor demonstration last week. A formal report is being prepared by the Vendor of the product demonstration. The PFP Process Equipment Removal team and Cellular Bioengineering Inc. (808-772-7543) conducted an cold (non-rad) test of the Decon 80 and Decon 188 polymer strip coats for use in gloveboxes at the Center.
2. Forwarded info to 200 LEF Radcon on "Tagaway" graffiti remover. Pacific Eco Solutions reports it works very well as a decontamination agent. The ALARA Center has a small amount to give out if a facility wants to try it. It is sold by Columbia Basin Hotsy at [www.cbhotsy.com](http://www.cbhotsy.com).
3. (NEW PRODUCT) Received two samples of the Devcon Zip-Patch that is used as a "permanent" repair system for steel, wood, aluminum, concrete, and most plastics. Poked a hole in a 55 gallon drum and applied a patch. The patch sets in 5 minutes and full cure is 1 hour. The Zip-Patch can be used to plug systems that have leaks and then the system placed back in use. The patch is roughly 4" X 9".
4. (TRAINING) Forwarded a handout on "A Simplified Approach to Mockup Training" to WCH Radcon . The handout describes how to determine what work operations should be mock-up trained and provides Attribute Checklists to determine if the mock-up is adequate, the work procedure is correct, and workers can complete the required operations using proper radiological control work practices. Hammer held a class, "ALARA Training for Technical Support Personnel", at the Center. Provided tours of the ALARA Center to 8 personnel attending ALARA Training and two senior managers from Newport News Shipbuilding and Mike Lakey, FH. The Center held training for five CH2M Hill personnel on Basic Glove Bags (020729). Three RCTs and two operators.
5. (D & D Work) Received a call from Ed Jacobs, the maintenance manger from Central Plateau, requesting we take a look at the gloveboxes and other material stored in 212N and provide recommendations. Visited the area and found they have several plywood containers containing equipment removed from the 308 building in the early 1970's. The boxes were stacked on railroad tracks and on concrete floors and buried in a fire retardant wool. Workers have vacuumed up some of the wool and exposed several boxes. Some boxes are in very poor condition and are damaged and rotted. The area is controlled as a Contamination Area but no removable contamination has been found yet. Discussed various alternatives on how the boxes could be opened, including checking the inside with a video scope. There is concern that some boxes may collapse if they remove the lid. I checked the Hanford photo/document library and could find no information. I looked on the DOE information Bridge to see if some other site had written a lessons learned on a similar job, but found nothing. Made several suggestions but the work group had already thought of the same things that I suggested. We will continue to search for other information that could be used to open these containers. (See attached document).
6. Met with C. Dunaway who is working on the destruction of chemical weapon munitions and discussed our mutual problems in controlling the spread of contamination/chemical particles. Forwarded

him info on cutting tools. Trumpf nibblers, CS Unitec saws and lubricants, HexArmor cut and puncture resistant gloves, Champion and Nucut shears, shrouded tools made by Desco, Novatek and Pentek, Nilfisk vacuums and portable vent units made by NFS/RPS and Omnitec Design. Forwarded several presentations on to a CD on ventilation and cutting tools.

## FOR YOUR INFORMATION

1. The **Rocky Flats Closure Project Legacy** report has been approved for release and is now available on the web at :

<http://rockyflats.apps.em.doe.gov/>

The Legacy report was designed to capture the successes and failures of the Rocky Flats closure experience. It was created to preserve the groundbreaking analyses, strategies and decisions carried out at Rocky Flats in support of the accelerated closure effort. This lessons-learned report is designed to chronicle the full history of the closure effort, covering not only the technical and scientific matters typically addressed in lessons learned arenas, but also the policy and programmatic issues that were addressed during the course of accelerated closure.

The Rocky Flats Closure Legacy report is organized into fifteen topical areas focusing on the strategic issues necessary to establish and sustain the closure project, and on issues associated with implementation of the project. Each section concludes with a "Key Success Factors" subsection that summarize what Rocky Flats learned in the topic area. The most fundamental themes and lessons are reflected in the Executive Summary as the "bottom line". We recommend you take the time to read the Preface and the short Introduction to gain an overall sense of the document's intent, focus, and design in order to get the best from the document for your specific needs. The appendices provide quick access to specific technology deployment sheets and to specific technical-based lessons learned. Links to more than 200 references can be accessed directly from the text narrative or through the comprehensive "Citations" appendix.

2. Recently, we added DOE HQ personnel to the distribution for this weekly report. We requested they look it over and tell us if there was a way to improve it. John DeGregory suggested that we add a short descriptive label for each of the short narratives so that it is easier to find information in the future. We think this is a good suggestion and have added a label to the applicable paragraphs of this report. If anyone else has a suggestion we are open to doing whatever it takes to make this report more useful.

3. The following two items were taken from the DOE Lessons Learned Weekly:

A. Site/Facility: Hanford T Plant Defective MSA Hood Stitching

In October 2006, T Plant personnel discovered three MSA hoods with seam problems with two that have not been fully sewn and another that about two stitches may have been pulled apart or missed. The two seams not fully sewn are about 2 inches down the left side from the top tab. The hoods have a date on the tag that reads 6/06, which means they were manufactured in June 2006. The manufacturer who makes these for MSA stated that about 2,000 of them were made in June. The hoods are being returned to the manufacturer for evaluation. At this time, we are not aware of how many of these hoods may have a problem, but evidence has shown this to be a very small number, as the manufacturer stated that less than two dozen or about 1 percent were affected.

**References:** 2006-RL-HNF-0046

B. While performing a walk down of ductwork/process gas (PG) heat shield removal in 306-6 on August 7, 2006, two DOE Facility Representatives discovered a piece of copper tubing that had been cut inside the duct work. It was traced back to a compressor. One end of the tubing was crimped, and the other end was open. The DOE Facility Representatives contacted a criticality engineer who looked at the tubing and stated that from a criticality standpoint, there was no problem. The criticality engineer had not been contacted by the duct removal crew because they had not conducted an inspection of the completed cuts as required by their work package and had not detected the cut tubing.

**Analysis:** The worker performing duct cutting had been in the area for about 2 ½ hours where the temperature was in the high 80s or 90 degrees. The worker was rushing to complete the last pilot hole prior to going on break and inadvertently cut the line. The worker did not realize that he had cut the line; therefore no notifications for evaluation were made. Neither the workers nor the supervisor conducted an inspection of the area around the pilot hole as was required by the work package to ensure no lines were contacted or cut during the evolution.

**Actions:** The following actions were developed to prevent recurrence:

1. Workers and supervisor were re-briefed on the hazard controls in the work package. The review of the work package was required prior to resumption of work.
2. Plan work schedules taking environmental factors into consideration. Work plans for tasks during hot weather inside buildings prepared for demolition must consider heat, humidity, and PPE requirements when determining work schedules and health and safety protections. **References:** S0012121/DOE-06-0617 Walkthrough

## VENDOR INFORMATION

Quest Environmental and Safety Products, will be at the Center to present some of their products, January 23rd, 2007, 9:00 to 1:00. The company was involved with the Fernald DOE D&D project.

## UPCOMING TRADE AND VENDOR CONFERENCES

1. The 2007 ISOE International ALARA Symposium & ERPI Radiation Protection Conference is scheduled for January 15-17, 2007 in Fort Lauderdale, FL. Cost is \$550 for non ISOE members To register, go to [www.ToPlanAhead.com](http://www.ToPlanAhead.com). The user name is "tpa" and the password is "meeting". See <http://www.nea.fr/html/jointproj/isoe.html> to learn about ISOE.
2. The American Glove box Society (AGS) Annual Conference & Expo 2007 is scheduled for July 23-25, 2007 at Lake Tahoe, NV. For additional information and registration, see web site: [www.gloveboxsociety.org](http://www.gloveboxsociety.org).
3. 2007 IIS Remote Technology & Shielding Users Group Meeting is coming up. Contact Stan Robinson [stan.robinson@i-i-s.net]. 7th Annual Users Group meeting is in San Antonio June 24th-27th. (See attached information on meeting).

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