

From: Eby, Jerald L

Sent: Monday, June 18, 2007 7:26 AM

Subject: ALARA Center Activities for Week of June 11, 2007

Attachments: 7150.pdf; Permacons.JPG; 7186.pdf; 7184.pdf

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1. Gave 40 CFM filter, can of spray adhesive and resin-impregnated canvas duck cloth to TRU Waste retrieval. The filter is the last one of 24 that were donated after work on 233-S was completed. The Canvas cloth is sold by G/O Corp under the name "Tack It" and is used to reduce contamination spread. Plan is to place it in the bottom of their glove bag used for venting waste drums. See <http://www.gocorp.com/category.php?cat=Sheeting&PHPSESSID=bcf329ba5ce8457c52a183b3274984e>
3. PFP engineer called wanting info on a shear that could be used to cut plate in PFP gloveboxes. Referred him to the Nucut battery powered shear used at K Basin to cut up materials underwater. See <http://www.trutechllc.com/nucut.htm>
2. Received a Compact Disc with the presentations made at the Waste Management Conference in February. Reviewed the presentations and forwarded those that I thought needed to be shared. The presentation on the Demolition of Building 232-Z Waste Incineration Facility is attached. In addition, attached a copies of presentations on "Molten Wax as a Dust Control Agent for Demolition of Facilities" and "Grouting of Residual Uranium Waste in Fernald Silos".
3. The Center held three classes at Hammer of Continuing Training for HPT/RCT's on Use of Radiological Containments, 16 Fluor and 8 CH2M Hill employees the two hour class. Training session continue till the end of October. PFP continued mock up training at the Center training area. See picture below. Training will continue for a couple more weeks.
4. Received call from personnel wanting to know if there was a plastic wrap that could be installed on a borescope to keep it from becoming contaminated. Recommended they get shrink wrap from their electricians and use a hair dryer to shrink the tubing around the borescope. After use, it can be wiped off and the shrink tubing removed. Gave a quart of Stripcoat TLC strippable latex paint to CH2M for use at the 200 East Evaporator. They discovered a leaking RTD and want to make weld repairs but the glovebag is too highly contaminated to allow removal for welding. Recommendation: Each facility/contractor doing radiological work ought to have their own supply of the strippable latex paint. The paint we had was provided from Bartlett Services so workers could try it out. See www.bartlettinc.com

FOR YOUR INFORMATION

1. Last week's report described a glovebag used by T-Plant to sort TRU waste. The drum lid is removed using a ventilated hood and a sleeve from the glove bag is attached to the top of the drum. The drum is then raised and tilted to get the contents to slide into the glovebag. The equipment used to raise and tilt the drum is made by Morse. See http://www.lumber-rack.com/Morse_Move_&_Pour_Drums.htm#M52 Scroll down to the section "400 Series - Hydra Lift Karriers, The model used at T-Plant is 400S-72HD. Lyle Rathbun forwarded a photo showing sorting of the waste in the glovebag.
2. Found a website on the Tanks Focus Area that has information about tanks, but also tools, equipment and lessons learned. See <http://www.tanks.org/>
3. The ALARA Center staff has been increased. Jeff Hunter has been hired and will work at the ALARA Center starting June 18. His phone number is 373-0656. Welcome aboard, Jeff.

RESPIRATORY PROECTION

MSA now has their display of the newest and their best respiratory equipment on display at the Center, room 222. Bullard Company will have their display completed this Thursday. Eventually four companies will have displays in room 222, which has section dedicated to just respiratory protection. The displays will be maintained by the vendors, keeping them current with the latest products. Respiratory folks, stop by and take a look.

DOE LESSONS LEARNED

The following DOE Lessons Learned (<https://www.hss.energy.gov/csa/analysis/doell>) is/are distributed for utilization and evaluation.

For tracking purposes, please follow each of the links and fill out the short evaluation at the end. If you are having trouble using the links, please contact us for help at HSS.Infocenter@hq.doe.gov. Thank you.

New Lessons Learned that fit your current user profile:

[BLUE - Importance of Good Communication Habits \(Source: User Submitted - ID: 2007-RL-HNF-0022\)](#)

Developing and maintaining good habits in the use of 3-way communication and repeat back communication is vital to ensuring the message that is provided has been clearly understood and acknowledged. Without this assurance, breakdowns in communications will continue.

[BLUE - Inadequate Safety Analysis Identified for the Potential Release of Toxic Chemicals \(Source: User Submitted - ID: 2007-RL-HNF-0023\)](#)

An inadequate Safety Analysis condition was identified following discovery that a PCB transformer fire may result in a hazardous material release great enough to require accident analysis and controls not currently included in the facility's Final Safety

[YELLOW - Insufficient Foreign Material Exclusion Controls \(Source: User Submitted - ID: 2007-RL-HNF-0020\)](#).

Sound engineering, construction, and operating practices were not applied with regard to foreign material exclusion during the design, construction, and operation of the Sludge Containerization and Sludge Hose-in-Hose Transfer Projects. Project personnel

[YELLOW - Out of Sight Should Not be Out of Mind \(Source: User Submitted - ID: 2007-LL-PNNLNUCL-0001\)](#)

As we attempt to extend the useful life of our aging facilities and maintain them in a professional and aesthetic manner, we may sometimes introduce hazards or, as in this case, create a hazard with a system that is otherwise intended to be a safety system.

[BLUE - Hazardous Waste Container Overpressurizes Following Addition of Nitric Acid Solution \(Source: User Submitted - ID: 2007-X10UTB-0009\)](#)

Differences between staff levels of readiness for work, changes in levels of responsibilities, not recognizing possibility for error, and lack of communication can lead to situations not evaluated for risks.

[BLUE - Communication is a Critical Element in Effective ISMS Implementation at the Activity Level \(Source: User Submitted - ID: 2007-SSO-SNL-10000-01\)](#)

Both written and verbal communications are critical elements in effective ISMS implementation in activity-level work planning and execution.

[YELLOW - Ask for Customer-Known Hidden Hazards \(Source: User Submitted - ID: 2007-SSO-SNL-6000-01\)](#)

The customer should be asked to supply a list of known hazards or equipment failures that might affect the team members who are working on customer-furnished equipment.

[BLUE - Defective Radioactive Waste Bags \(Source: User Submitted - ID: 2007-CH2M_HILL-0001\)](#)

Effective pre-use inspections of radioactive waste bags identify defects.

[YELLOW - PAPR Fan Failure \(North CA-101\) \(Source: User Submitted - ID: 2007-ID-AMWTP-006\)](#)

Pre-use inspection of PAPR fan motor for any irregular noise can help prevent motor failure before it happens.

[YELLOW - South Box Line Brokk Damaged During Hose Replacement \(Source: User Submitted - ID: 2007-ID-AMWTP-007\)](#)

Hose identification is critical during maintenance that requires the disconnecting and connecting of hydraulic hoses.

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