

January 2007 P2 Conference Call
18 January 2007

1. Sandia National Laboratories/CA Interdisciplinary Team (IDT) Process

Overview – Janet Harris, 925-294-3803, jsharri@sandia.gov

The charter of the Safety, Health, and Environmental Appraisal Committee (SHEAC) of Sandia National Laboratories/CA requires that new or changing processes and/or experiments be evaluated by the Interdisciplinary Team (IDT) to determine if the involvement of other parties is required as the process or experiment moves forward. Proponents of a new or changing process or experiment describe it via the IDT Evaluation Request form and indicate what equipment, chemicals, or radioactive materials will be used and what emissions and/or waste will be generated. During one of its weekly meetings, the IDT meets with the proponent, reviews the Evaluation Request Form, and discusses what organizations need to be involved in undertaking the process or experiment. The discussion items are then recorded on the Attendance and Project Review Form and presented to the proponent within two days of the IDT meeting.

The IDT reviewed over 160 processes or experiments in 2004 and approximately 110 in each of the last two years. Initially developed in 1991 to streamline the development of National Environmental Policy Act (NEPA) documents, IDT became mandatory for all new projects and programs and major changes to existing projects and programs by 1998. Management support has been key to the IDT's success and functioning.

2. Pollution Prevention (P2) at Fermi – Eric Mieland, 630-840-2248, Mieland@fnal.gov

Fermi's P2 program was described in terms of its procedural and its practical elements. Procedurally, P2 is integrated in Fermi's EMS and its ES&H Manual which is on-line. Fermi is also incorporating P2 as it completes the ISO 14001 certification process.

Practically, P2 is implemented systematically through the Environmental Protection Subcommittee of the Lab Safety Committee; the subcommittee is comprised of representatives of the Lab's 10 major organizations. Fermi communication channels, such as Fermilab Today, the daily newsletter, are also practical methods to promote P2 through articles describing P2 opportunities and success stories. An example of P2 outreach was the contest, promoted in Fermilab Today, to provide the existing "green guy" icon with a new name. Over 600 respondents suggested names with the winner being "Seymour Green" and his "It Matters" motto. A very fitting motto for an organization devoted to high energy physics. (see Mr. Seymour Green at the end of these notes)

3. EMS Reporting – Steve Woodbury, 202-586-4371, Steven.Woodbury@eh.doe.gov

Site EMS data and comments submitted through FedCenter are in the process of being analyzed to identify trends and/or the characteristics of strong- and weak-performing EMSs. PSOs have received spreadsheets of the EMS data for sites under their purview. EMS points of contact at each site have received a green, yellow, or red ranking based on

site responses to the EMS survey questions. The EMS survey questions will be asked again for FY07.

4. OMB Scorecard; Draft EO – Strengthening Federal Environmental, Energy, & Transportation Management – Jane Powers, 202-586-7301, Jane.Powers@eh.doe.gov

In February DOE will receive its Environmental Stewardship Scorecard from the Office of Management and Budget (OMB). OMB will rate DOE's performance on the following metrics: EMS, green purchasing, sustainable design/green buildings, electronic stewardship, and compliance management plan.

The Administration released a third version of its proposed new Executive Order (EO) that merges many of the requirements of EO 13101, 13123, 13148, 13134, 13149, and 13221. There is no information on when the final EO will be released.

5. P2 Tracking & Reporting System – Don Lentzen, 202-586-7428, Donald.Lentzen@hq.doe.gov

The reported P2 data are now being analyzed and the P2 reporting process is being evaluated. Don will make personal contacts with site personnel to discuss the findings and identify issues, concerns, and opportunities.

6. Federal Electronics Challenge (FEC) – Jeff Eagan, 202 586-4598 Jeff.Eagan@hq.doe.gov

Over 333 computers and monitors manufactured by 13 companies have been EPEAT certified. More EPEAT information is available at <http://www.epeat.net/>.

The 3rd Annual Federal Electronics Stewardship Conference will be held on February 6-7, 2007, at the National Institutes of Health in Bethesda, MD. The conference addresses important and timely topics related to greening electronics procurement, extending the useful life of electronics and reducing their impact during use, and best managing equipment at end-of-life. More information on the conference is available at <http://www.federalelectronicschallenge.net/3rdstewardshipconf/index.htm>.

The deadline for the FEC awards is 31 January 2007 for activities conducted in calendar year 2006. Jeff offered his assistance in completing the award nomination forms which are available at <http://www.federalelectronicschallenge.net/recognition.htm>

The regulation on cathode ray tube recycling takes effect soon. A regulatory bulletin describing the rule will be released shortly.

The FEC Electronic Reuse and Recycling Challenge started on 15 November 2006 and ends on 15 March 2007. In last year's competition, DOE was responsible for 20 – 25% of the electronics recycled by the federal government. At this point only 7 DOE sites are involved in the Challenge as opposed to the 11 that participated in last year's Challenge.

As a reminder, reuse of electronic equipment counts toward the Challenge totals. The simplified registration process is available at <http://www.federalelectronicchallenge.net/>.

7. Pantex Moratorium Pilot Project Update – Craig Snider, 806 477 5906, csnider@pantex.doe.gov

Pantex and HQ are still resolving the issue of whether metals with tritium will be included in the Pantex pilot protocol for releasing uncontaminated scrap metal. The pilot program has not yet started.

Seymour Green: Fermi's Newly Named Icon



February 2007 P2 Conference Call
15 February 2007

1. Pantex Moratorium Pilot Project Protocol Update – Craig Snider, 806 477 5906, csnider@pantex.doe.gov

Pantex and HQ are still resolving the issue of whether metals with tritium will be included in the Pantex pilot protocol for releasing uncontaminated scrap metal. That appears to be the only remaining issue associated with releasing the protocol and initiating the release of metals.

2. Federal Electronics Challenge (FEC) – Jeff Eagan, 202 586 4598
Jeff.Eagan@hq.doe.gov

The DOE Chief Information Officer (CIO) issued the Department's Cyber Security Program *Media Clearing, Purging, and Destruction Guidance* which describes the major elements of sanitizing electronic media, hardware, and devices. The guidance describes the minimum requirements to be included in the Program Cyber Security Plans (PCSPs) developed by senior management. The guidance, available at <http://www.cio.energy.gov/documents/2006DOECyberSecurityRevitalizationPlan.pdf>, annuls the previously announced prohibition on hard drive destruction.

Based on the strength of the electronics recycling and reuse presentation made by Idaho National Laboratory at the recent Federal Electronics Stewardship Conference, DOE was asked to develop a panel discussion on electronic stewardship best practices for the June 2007 OFEE Symposium. Please contact Jeff if you are interested in participating on the panel.

Although the FEC Electronics Reuse and Recycling Campaign started on 15 November 2006 it does not end until 15 March 2007 and it is not too late to participate. The definitions of "reuse and recycling" are wide open so many activities, such as returning leased computers, can qualify towards the Campaign. The simplified registration process is available at <http://www.federalelectronicchallenge.net/>.

3. How Y-12's Recycling Program Works with the EMS – Janice Jackson, 865-241-2567, gilbertjm@y12.doe.gov

Including a recycling objective in the Y-12 EMS contributed to not only meeting but exceeding it. Although the target was 21,000 metric tons, consisting of the many waste streams Y-12 recycles, the site actually recycled 34,000 metric tons in 2006. Each month the environment officer for each Y-12 organization reports on the site's EMS goals and objectives which served as a constant reminder to the organizations to seek out recycling opportunities. So committed are the organizations to recycling that they contribute to funding a full-time recycling coordinator.

4. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management – Steve Woodbury, 202-586-4371, Steven.Woodbury@eh.doe.gov

Executive Order (EO) 13423 establishes agency goals and sustainable practices and states that EMSs – to be established at all appropriate levels within organizations – are the vehicle to achieve those goals and practices. The new EO raises several issues.

Determinations must be made as to the appropriate levels within an organization for which EMSs are appropriate. Next, because EO 13423 expands upon EO 13148 by embracing sustainable energy, water, and transportation practices, existing EMSs may need to be expanded to accommodate these new EMS elements. Expanding the EMS scope requires reaching out and working cooperatively with the site organizations responsible for energy, water and transportation. Further, site's conception of "safety" as implemented through the ISMS will need to be broadened – and the ISMS changed accordingly – to incorporate energy, water, and transportation.

Additionally, the EO uses a "top-down" strategy and establishes agency goals. By way of contrast, DOE O 450.1, Chg 2 uses a "bottom-up" approach which requires sites to determine and work toward site-appropriate goals.

These issues will be addressed through any necessary changes to DOE orders, contractor requirements documents, and guidance documents. These changes will be made through the DOE Directive System thereby encouraging input from program and field offices and sites.

5. P2 Awards / EO 13101 Report – Jane Powers, 202-586-7301, Jane.Powers@eh.doe.gov

The EO 13101 report on the Department's recycling and acquisition progress in 2006 is due for delivery by 16 March.

The Department's nominations to the White House Closing the Circle (CTC) competition were submitted on January 25. DOE's CTC winners will be honored at the June 7 DOE P2/EMS Workshop. The nominations for the DOE P2 Star award are presently under review by a three-person independent panel.

6. Site EMS Profiles / OFEE Workshop – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@eh.doe.gov

Within the next week or two, Bev and Don Lentzen will meet with the PSO EMS representatives to discuss profiles and EMS scores for the sites under their purview.

The Federal Environmental Symposium, sponsored by the Office of the Federal Environmental Executive, will be held June 4-6 at the National Institutes of Health (NIH)

campus. The symposium, which is free to Federal employees and support contractors will focus on understanding and meeting the goals of EO 13423.

The deadline for abstract submissions for the Symposium is March 9, 2007. Additional information is available at

http://www.fedcenter.gov/_kd/go.cfm?destination=page&pge_id=3232.

Symposium exhibit space is available – contact Melanie Pearson at 202 586 0939 if interested.

March 2007 P2 Conference Call
15 March 2007

1. Demonstration Laboratory for Reduction of Mixed Low-level Waste – Sonja Salzman, 505-664-0106, ssalzman@lanl.gov

Through establishing an internal computer network in one of its non-rad control laboratories, Los Alamos National Laboratory demonstrated how it could reduce the amount of electronic equipment that must be dismantled and disposed as mixed low-level waste because it was used in a radiation control area. By networking the computers in the lab to one printer and using laptop computers that simply required styluses rather than keyboards, the lab was able to recycle 5 desk top computers, monitors, and keyboards totaling 1m³. Establishing the network took almost four months because the computers ran several types of spectrometers and the computers that were replaced used several different operating systems. Another lesson learned was that vendors will emphasize purchasing a package that includes the electronic equipment and a computer and assert that the warranty on the equipment will be voided if changes are made to the computer configuration.

2. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management – Steve Woodbury, 202-586-4371, steven.woodbury@eh.doe.gov (information presented by Josh Silverman, 202-586-6535 josh.silverman@eh.doe.gov)

- A memo is being readied for the Secretary to designate Alexander Karsner, Assistant Secretary for Energy Efficiency and Renewable Energy, as the DOE official responsible for implementation of the E.O.
- The Council on Environmental Quality (CEQ) instructions on the E.O. describe the specific requirements of the E.O. in greater detail than that provided in the E.O. The final instructions should be available within the next several weeks.
- HS is gathering information from sites that have already integrated energy efficiency and fleet management into their EMS. This input could be very helpful in demonstrating how the E.O. fleet management and energy efficiency provisions can be implemented. Please contact Josh with information on how your site achieved this integration.
- As a result of Josh's briefing to the Joint EFCOG/DOE Chemical Management group on the chemical use reduction goals and requirements of the E.O., the group decided to establish a committee to make recommendations on how DOE could implement those goals and requirements. Contact Josh if you would like to volunteer to serve on the committee.
- The E.O. stipulates that reports on chemical use reduction for 2008 will be due on January 1, 2009. Chemical use reports will still be required for 2007. The 2007 report may require the TRI data required in previous reporting years or the CEQ instructions might expand on what must be reported.

3. Pantex Moratorium Pilot Project Protocol Update – Craig Snider, 806-477-5906, csnider@pantex.doe.gov (information presented by Beverly Whitehead)

The protocol for the Pantex pilot project will apply to clean materials only. The protocol is still being worked between Headquarters and Pantex but should be released soon.

4. 2007 Earth Day/P2 Star Awards – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@eh.doe.gov

The 37th anniversary of Earth Day will be observed at DOE during the week of April 16 with the following events at Headquarters:

Tuesday, April 17 – Green Fair: local vendors will display green products for the home; Wednesday, April 18 – DOE offices display their programs related to Earth Day; and Thursday, April 19 – Mike Kilpatrick, representing HS-1, will award the P2 Star awards to the respective PSOs.

P2 Star recipients will be notified as soon as the selections are finalized.

5. Recycling Tritium-based Exit Signs – Peter Pohlot, 631-344-5660, pohlot@bnl.gov and Sonja Salzman, 505-664-0106, ssalzman@lanl.gov

Sonja posed a question to the field on how other sites recycle tritium-based exit signs.

Peter responded by sharing the protocol Brookhaven National Laboratory used successfully for the last several years to recycle their signs. The protocol will be distributed with the March 15th P2 minutes.

As of 16 February 2005, BNL recycled 813 tritium-based exit signs. Most recently the signs were sent to a firm in Canada that reduced by \$50 the purchase of the firm's new LED signs which are normally priced at \$125.

The P2 conference calls provide an excellent opportunity to do this type of problem solving and I encourage the sites to submit their questions to the group.

6. 2007 OFEE Environmental Symposium – Paul Lin, 202-586-4408, Paul.Lin@hq.doe.gov

The Federal Environmental Symposium, sponsored by the Office of the Federal Environmental Executive, will be held June 4-6, 2007 at the National Institutes of Health (NIH) campus. The theme of the symposium, which is free to Federal employees and support contractors, is understanding and meeting the goals of E.O. 13423.

The deadline for abstract submissions for the Symposium is extended to March 28, 2007. Additional information is available at http://www.fedcenter.gov/_kd/go.cfm?destination=page&pge_id=3232.

7. Federal Electronics Challenge (FEC) – Jeff Eagan, 202-586-4598
Jeff.Eagan@hq.doe.gov

- Electronics Reuse and Recycling Campaign – the reporting deadline is extended to midnight, Monday, March 19th. Nineteen DOE sites have joined the campaign.
- Implementing Electronics Stewardship at Department of Energy Facilities – this information brief is available at [http://www.hss.energy.gov/nuclearsafety/nsep/p2//Electronics Stewardship IB Mar07.pdf](http://www.hss.energy.gov/nuclearsafety/nsep/p2//Electronics%20Stewardship%20IB%20Mar07.pdf) . The document is loaded with helpful hyper links and serves as a one-stop location for a wealth of information on electronics stewardship.
- Electronics stewardship best practices – as good as it is, the Implementing Electronics Stewardship at Department of Energy Facilities information brief would benefit greatly by including site experiences with electronic stewardship. So, submit your lessons learned/best practices to Jeff who will make them available to all sites.
- Electronics stewardship panel at the OFEE Symposium – DOE is proceeding with its proposal to develop an OFEE Symposium panel of site representative to share their experiences in electronics stewardship. Please contact Jeff with your interest in participating.

8. April P2 Conference Call – Beverly Whitehead, 202-586-6073,
Beverly.Whitehead@eh.doe.gov

There will not be a P2 conference call on Thursday, April 19th due to the Earth Day events planned for that day. Please give me a call with your preference for a call on either April 12th or April 26th.

April 2007 P2 Conference Call
26 April 2007

1. Earth Day 2007/P2 Star Awards/White House Closing the Circle Awards –
Beverly Whitehead, 202-586-6073, Beverly.Whitehead@eh.doe.gov

The 37th anniversary of Earth Day was observed at DOE during the week of April 16 with the following events at Headquarters:

Volunteer Day: DOE volunteer programs were featured;

Green Fair: local vendors displayed and explained green products for the home;

DOE: Headquarters' offices displayed program information; and

P2 Star Award Program: Mike Kilpatrick, representing HS-1, emceed the P2 Star Awards program for PSOs.

Congratulations to these P2 Star Award recipients:

- * Oak Ridge Y-12 National Security Complex (2 awards)
- * Sandia National Laboratories/NM
- * Sandia National Laboratories/CA
- * Brookhaven National Laboratory
- * Pacific Northwest National Laboratory
- * HQ Chief Information Officer, Property Management Division, and Office of Procurement Assistance and Policy

and to these P2 Star Honorable Mentions

- National Renewable Energy Laboratory
- Savannah River Site
- Los Alamos National Laboratory
- HQ Office of Health, Safety, and Security.

[Additional information is available in the attachment and at <http://www.hss.energy.gov/nuclearsafety/nsep/p2//>]

Congratulations to these winners of White House Closing the Circle Awards:

- Brookhaven National Laboratory
- Thomas Jefferson National Accelerator Facility
- HQ Green Team
- HQ Interagency Sustainability Working Group

and these Closing the Circle Honorable Mentions

- Lawrence Livermore National Laboratory
- Y-12 Site Office
- HQ Offices of Health, Safety, and Security; Management; and Energy Efficiency and Renewable Energy.

2. Princeton Plasma Physics Laboratory Earth Week Celebration – Tom McGeachen, 609-243-2948, tmcgeach@pppl.gov

The PPPL 11-person Earth Week team created a full range of activities including displays; a United States Green Building Council-New Jersey Chapter event at a local Whole Foods Store which raised \$5,000.00 and displayed the market's green activities; "Cradle to Cradle" displays of green office furniture; climate change presentation; and the PPPL "Green Machine" Awards program. Furniture featured in the "Cradle to Cradle" displays had to meet three criteria:

1. environmentally responsible,
- 2 ergonomically correct, and
3. durable.

PPPL will continue its "Doing common things uncommonly well usually brings Success" Earth Day theme throughout the year.

3. Sandia National Laboratories/NM Earth Day – Morgan Gerard, 505-844-0863, megerar@sandia.gov

The Earth Day team at Sandia consisted of staff from the P2, EMS, and energy management programs. A speech by Dr. Paul MacCready, a "virtual house" that displayed ideas for making homes more energy and water efficient, and the awarding of the 2006 Energy Conservation Contest Award winners were the highlights of the day. Building 750 received the contest's Gold Award for reducing its energy by 20.3%.

Over 800 people visited the Earth Day displays and 350 people attended the speech. Sandia is considering repeating this summer the recent Australian experience of turning off all lights for one hour.

4. Brookhaven National Laboratory Celebrates Earth Week – Peter Pohlot, 631-344-5660, pohlot@bnl.gov

Brookhaven celebrated Earth Day for a full week with activities that included environmental displays, an environmental speaker, hybrid vehicles display, and awarding the Brookhaven 2007 Environmental Stewardship Awards. "Your Environment" awards were also presented to children from local elementary schools for creating environmental posters.

Other events that were quite popular were the environmental pledge tree that demonstrated how small changes in daily life can make an environmental impact, the office supply swap, and the environmental vendor fair. One of the interactive displays at the fair was an energy wheel—a hand crank generator that allowed people to experience how long it took them to turn on a regular light bulb versus a CFL light bulb.

5. Lawrence Livermore National Laboratory Observes an Earth Week – Katherine Gabor 925-422-9790, gabor2@llnl.gov

Livermore's traditional, large, outdoor Earth Expo Event to celebrate Earth Day in April and the Lab's Environment, Safety, and Health Fair held in June were too close in time to ensure maximum vendor and organization participation so the Earth Day celebration this year was scaled back. The Earth Day theme, "Caring for the Environment at Home and at Work," was the message conveyed via handouts and flyers available over 4-days at two main cafeterias. The distributed materials showed how the energy efficient and environmentally protective actions people take in their homes can transfer to their work space as well.

6. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management – Jane Powers, 202 586-7301, Jane.Powers@hq.doe.gov; Jeff Eagan, 202 586 4598 Jeff.Eagan@hq.doe.gov; Steve Woodbury, 202-586-4371, Steven.Woodbury@eh.doe.gov

Jane reported on a recent inter-agency meeting called to review the instructions issued with EO 13423 and determine what topics warranted guidance development. At this point, guidance is expected to be created for the following topics:

- conformance of EMS to the requirements of the EO,
- incorporation of the multi-year goals of the EO in EMS,
- incorporation of the EO goals and objectives in EMS, and
- EMS annual review and updating.

In a discussion as to who should receive the EO training required by the EO, Ed Pinero (the Federal Environmental Executive) indicated that all staff should receive the training. This would reduce the stove-piping that could occur in implementing the EO because many of the requirements of the EO are spread over different organizations within agencies. EPA will take the lead on developing the EO training.

Jane also reported that DOE will re-affirm that its solid waste diversion goals are actually facility goals as identified and implemented through EMS.

Jeff announced the creation of an EMS coordination group, the Environmental Management System Assistance Network (EMSAN). The objective of EMSAN is to serve as the DOE principal focal point to provide cross functional support for EMS coordination and information exchange. Both federal and contractor personnel working with EMS are invited to participate.

The first EMSAN conference call will be from 2:00 PM to 3:00 PM EDT on Monday, April 30th. The Meet-Me call-in number is 301-903-9198; the confirmation number is 174803.

Steve indicated that the EMSAN call would touch on at least these topics:
- the new requirements of the EO and how they can be folded into O 450.1, Environmental Protection Program, and M 450.4-1, Integrated Safety Management System Manual, and
- a brief, one-page survey on the degree to which the sustainable practices of the EO are already incorporated in EMS.

7. Federal Environmental Symposium /DOE Workshop – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@eh.doe.gov

The Federal Environmental Symposium, sponsored by the Office of the Federal Environmental Executive, will be held June 4-6 at the National Institutes of Health (NIH) campus. The symposium is free to Federal employees and support contractors.

Advance registration is required (<http://www.fedcenter.gov/calendar/conferences/symposium2007/registration/>) and hotels in the area are filling up fast. Please give me a call if you are having difficulty locating a hotel.

The DOE Workshop on June 7 will be held at the Headquarters Building from 9 AM to 3 PM. The Workshop topics are DOE implementation of EO 13423 and the awarding of the P2 Star Awards to the recipient sites.

Please let me know if you will be attending the Federal Environmental Symposium and the DOE Workshop.

8. Electronics Reuse and Recycling Campaign / Federal Electronics Challenge (FEC) – Jeff Eagan, 202 586 4598 Jeff.Eagan@hq.doe.gov

For the second year in a row, DOE won the Agency Award in the Electronics Reuse and Recycling Campaign (ERRC) thanks to the 18 facilities that recycled or reused 650,000 pounds of electronic equipment over a 6-month period.

Congratulations to the Idaho National Laboratory and the Strategic Petroleum Reserve Office who received ERRC site awards.

The FEC awards will be announced in early May and will be awarded at the Federal Environmental Symposium.

9. Pantex Moratorium Pilot Project Protocol Update – Craig Snider, 806 477 5906, csnider@pantex.doe.gov

The protocol for the Pantex pilot project should be submitted to Headquarters on 26 April; it will be made available to other sites as soon as HQ concurs on it.

Attachment

Department of Energy

2007 Pollution Prevention Star Award Winners

Department of Energy Headquarters

Office of the Chief Information Officer, Property Management Division, and Office of Procurement and Assistance Policy

DOE Headquarters Electronics Stewardship Program

Recognizes DOE Headquarters leadership in developing and institutionalizing sustainable electronics stewardship practices.

National Nuclear Security Administration (NNSA)

Oak Ridge Y-12 National Security Complex

[EMS-Driven Continual Improvement to Streamline the Kathene Waste Management Process](#)

This EMS-driven continual improvement used a life cycle approach to reduce wastes, streamline operations to improve efficiency, and reduce the compliance liabilities, paperwork, labor, and cost of managing and disposing waste.

Oak Ridge Y-12 National Security Complex

[Expanding Use of Alternative Fuels in Y-12 Vehicles](#)

Y-12 personnel aggressively expanded the use of bio-based alternative fuels to reduce the use of non-renewable natural resources and the nation's dependence on petroleum products

Sandia National Laboratories - New Mexico

[HERMES III Waste Minimization Practices/ Waste Minimization](#)

Extensive efforts in this facility, including minimizing the use of hazardous chemicals, extending the life of the de-ionized (DI) resin beds, reusing and modifying test hardware, and reducing the needs of Sulfur Hexafluoride process gas, substantially reduce waste volume and avoid over \$250,000 annually.

Sandia National Laboratories - California (SNL/CA)

[Unique Approaches and Techniques Resulting in Rapid and Effective EMS Implementation at SNL/CA](#)

The SNL/CA EMS core team uses several unique approaches and techniques to efficiently and effectively implement and certify its EMS.

Office of Science

Brookhaven National Laboratory (BNL)

[Environmental Stewardship: Expanding the Envelope of the BNL Environmental Management System through Voluntary Participation](#)

Through its voluntary participation in the EPA PTrack and NPEP programs, Brookhaven National Laboratory has realized a 90% reduction in onsite PCB inventory, a 40% reduction in mercury, greater than 35 tons of CFC-11 equivalent have been removed from service, restoration of 42 acres of property to natural forest conditions, and a 34% reduction in radioactive emissions from the production of radioisotopes.

Pacific Northwest National Laboratory (PNNL)

[PNNL Pollution Prevention Activities](#)

In fiscal year (FY) 2006, the Laboratory identified pollution prevention related avoidances of \$4,159,500 and approximately 13,450 kilograms of hazardous waste.

Honorable Mentions

National Renewable Energy Laboratory: [Science & Technology Facility on NREL's South Table Mountain Site](#)

Office of Health, Safety, and Security: Department of Energy Early and Continuing Promotion of Biobased Products

Los Alamos National Laboratory: Green Primaries: [Environmentally-Friendly Primary Explosives](#)

Savannah River Site: [Chemical Management Center](#)

May 2007 P2 Conference Call
17 May 2007

**1. DOE Pantex Earth Day Presentation -- Julie Chavarria, Pantex, 806-477-6533,
jchavarr@pantex.com**

BWXT Pantex sponsored Earth Fest 2007 on Saturday, April 28th from 10:00 a.m. - 4:00 p.m. The event was held at the Wildcat Bluff Nature Center in Amarillo, TX. Other sponsors included XcelEnergy and Wildcat Bluff.

The event was well publicized with over 1,800 kids attending the event. There were over 15 different booths set up by local organizations and vendors. The “Close the Loop Recycling/ Make a Hoop” booth was very popular since it involved basketball. The Earth Day Jeopardy was well-received also.

The event included:

- Exhibitors to educate on energy conservation, clean air, clean water, recycling, healthy self, etc.
- Ren2ew Bus: Renewable Energy and Efficiency Education on Wheels
- Potter County Kid Print Program
- Hybrid and fuel-efficient vehicles
- Environmentally friendly activities and arts & crafts for kids
- Eddie the Eagle
- Entertainment and concession stands
- Guided hikes and graffiti on the solar slab
- Amarillo Fire Department Safety House

2. Pantex Moratorium Pilot Project Protocol Update – Craig Snider, Pantex, 806-477- 5906, csnider@pantex.doe.gov

Headquarters is working on an approval letter for the protocol. The pilot project has the potential to be an extremely visible project in the media and general public. The approval letter might include a timeframe for migration of the project to other sites.

Metals will be split into three categories, depending of level of contamination. Headquarters is also in the process of evaluating the volume of metals recycled.

Other PSOs, including EM and SC have seen the protocol.

**3. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management – Steve Woodbury, 202-586-4371,
Steven.Woodbury@hq.doe.gov**

EE Workgroup will discuss HSS role in the new E.O. HSS staff will highlight the role of EMS’s in complying with the new E.O. A Memorandum of Agreement will be drafted to

stipulate the roles of each organization within DOE. This agreement will ensure all goals and requirement of the EMS will be properly covered.

The EFCOG Environmental Subgroup met last week and discussed the new E.O. Two issues need to be resolved: 1) the role of the goals in the EMS and 2) what are the appropriate levels within DOE to have an EMS. An options paper will try to articulate the role of the goals.

The Environmental Summit in New Orleans was attended by DOE staff. ORNL was announced as DOE's newest Performance Track member.

The schedule for revision of 450.1 has not yet been developed though it is expected to be revised in the next year.

4. 2007 OFEE Environmental Symposium /DOE Headquarters Workshop – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@hq.doe.gov

The Federal Environmental Symposium, sponsored by the Office of the Federal Environmental Executive, will be held June 4-6 at the National Institutes of Health (NIH) campus in Bethesda, MD. The symposium is free to Federal employees and support contractors.

Advance registration (until May 25th) is required (<http://www.fedcenter.gov/calendar/conferences/symposium2007/registration/>) and hotels in the area are filling up fast. Please give me a call if you are having difficulty locating a hotel.

The DOE Headquarters Workshop on June 7 will be held at the DOE HQ (Forrestal Bldg. – Room 1E-245) from 9 a.m. - 3 p.m. The Workshop topics are DOE's implementation of E.O.13423 and the awarding of the P2 Star Awards to the recipient sites.

Tom McGeachen (PPPL) has arranged a FREE 1 hour tour of the new USGBC offices (LEED Platinum rated office renovations) located in DuPont Circle in Washington D.C. during the OFEE Environmental Symposium on June 5, 2007 starting at 5:00pm. If you are interested in taking the tour please send an e-mail to Tom (tmcgeachen@pppl.gov) with your e-mail address, work number, and cell phone number. The tour will only be able to accommodate 30 people.

Reminders:

1. Please send me an e:mail of any questions or concerns that your sites have regarding the implementation of E.O. 13423. These items will be discussed during the DOE Workshop on June 7.
2. Please let me know if you will be attending the OFEE Environmental Symposium and the DOE Workshop.

5. Electronic Stewardship Updates – Jeff Eagan, 202-586-4598, Jeff.Eagan@hq.doe.gov

DOE Headquarters won a White House Closing the Circle awards for its electronic stewardship efforts.

Congratulations to the Idaho National Laboratory and the Strategic Petroleum Reserve Office who received ERRC site awards.

Jeff stated that there is now funding for HS-22 staff to travel to sites to assist them with the electronic stewardship program. Please let Jeff know if you are interested in having a site visit.

Jeff also was invited to speak at the National CIO Conference to discuss the new E.O. The new goals include: 1) use of EPEAT, 2) extend the life of your computers from 3 to 4 years, 3) purchase Energy Star computers and enable those features, and 4) dispose of electronics in an environmentally-friendly manner.

6. The Environmental Management System Assistance Network (EMSAN) – Jeff Eagan, 202-586-4598, Jeff.Eagan@hq.doe.gov

The objective of EMSAN is to serve as the DOE principal focal point to provide cross functional support for EMS coordination and information exchange. The monthly conference call will share best practices for EMS. Both federal and contractor personnel working with EMS are invited to participate.

The second EMSAN conference call will be from 2:00 p.m. - 3:00 p.m. EDT on Wednesday, May 30th. The call-in number is 301-903-9192; the confirmation number is 176976. If you encounter difficulties with the call, contact the DOE operator at 202-586-5000.

June 2007 P2 Conference Call
21 June 2007

1. Transformational Energy Action Management (TEAM) Initiative – Josh Silverman, 202-586-6535 josh.silverman@hq.doe.gov

The TEAM Initiative has expanded to include all elements of EO 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, rather than just the energy elements as originally planned. The Secretary was recently briefed on the TEAM Initiative; the formal roll-out will occur at the August 2007 GovEnergy conference. A major element of the roll-out is the 600 Day Timetable which will describe what the Department will accomplish by the end of the present administration and the framework for on-going efforts beyond that date.

Assistant Secretary Karsner, the Senior Agency Official responsible for implementation of EO 13423, is emphasizing the use of Energy Savings Performance Contracts to achieve the energy goals of the EO. Executable plans for these energy goals—with defined milestones, responsibilities, and performance targets—are to be developed by the end of FY 2008.

The TEAM Initiative timeline calls for DOE Order 450.1, *Environmental Protection Program*, to be updated by February 2008 and all site EMSs to be aligned with requirements of the EO by December 2008.

2. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management – Jane Powers, 202-586-7301, Jane.Powers@hq.doe.gov

Implementing the EO will be smoother if O 450.1 and O 430.2A, *Departmental Energy and Utilities Management*, are integrated to the extent possible. Efforts will be made to ensure consistency between them as the orders go through the revision process.

The preliminary timeline for revising O 450.1 includes a draft review by the field in late August, subsequent review through the RevCom process, and final issuance in January 2008. Many of the strategies that are listed in O 450.1 to achieve the P2 and Sustainable Environmental Stewardship Goals are now requirements of the EO so those changes will be made to the order. Additional changes to the order include adding the new EMS and compliance management plan requirements.

3. Federal Environmental Symposium / DOE EMS and P2 Workshop – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@hq.doe.gov

The Federal Environmental Symposium, sponsored by the Office of the Federal Environmental Executive and held June 4-6, had 806 registrants. Presentations are available at www.fedcenter.gov/symposium2007; select the 2007 Proceedings button to pull up the agenda which has embedded links to the presentations.

The DOE P2 and EMS Workshop on June 7 had 50 registrants. Minutes from the Workshop and an evaluation form will be distributed; please return the evaluation form by July 6, 2007.

4. Electronic Stewardship/Federal Electronics Challenge – Jeff Eagan, 202-586-4598, Jeff.Eagan@hq.doe.gov

The Instructions for Implementing Executive Order 13423 stipulate that:

Each agency and its facilities shall choose either to become a partner in the Federal Electronics Challenge (FEC), or to implement an equivalent electronics stewardship program that addresses purchase, operation and maintenance, and end-of-life management strategies for electronic assets consistent with FEC's recommended practices and guidelines.

Since the FEC is already established and many DOE sites are partners, joining FEC may be the most reasonable method to comply with this requirement of the EO Instructions.

New Energy Star requirements for computers will be forthcoming but those requirements have already been included in the EPEAT criteria. Over 500 monitors and computers are EPEAT certified.

Assistance in developing electronic stewardship programs is available through HS-22. Contact Jeff for more information.

5. EMSAN Conference Call – Jeff Eagan, 202-586-4598, Jeff.Eagan@hq.doe.gov

The second Environmental Management Systems Assistance Network (EMSAN) conference call will be held on Wednesday, 27 June, at 2 PM (Eastern Daylight Savings Time). The call in number is 301-903-9154.

6. Pantex Moratorium Pilot Project Protocol Update – Craig Snider, 806-477-5906, csnider@pantex.doe.gov

The Impact Assessment associated with the protocol for the Pantex pilot project should be completed soon. If the assessment indicates that there is no impact the pilot should be approved by Headquarters.

7. WIPP Disposal Containers – Phil Gregory, 505-234-7469

The Waste Isolation Pilot Plant (WIPP) needs approximately 5,000 shielded payload containers for transporting and disposing remote-handled transuranic (TRU) waste. Each container could require 1,000 pounds of lead shielding. WIPP will use the DOE materials disposition system to locate lead that could be used for this project. The Nuclear Regulatory Commission must approve the container design and the EPA and State of New Mexico will be involved as well. Fabrication is expected to begin in late 2008 or early 2009. More details will be provided as they become available.

July 2007 P2 Conference Call
19 July 2007

1. Status Report on Transformational Energy Action Management (TEAM) Initiative – Josh Silverman, 202-586-6535 josh.silverman@hq.doe.gov

The current emphasis of the Transformational Energy Action Management (TEAM) Initiative is to prepare the Secretary to formally launch the initiative in New Orleans on August 5-8, 2007.

Assistant Secretary Karsner, the Senior Agency Official responsible for implementation of EO 13423, is emphasizing the use of Energy Savings Performance Contracts to achieve the energy goals of the EO. Executable plans for these energy goals—with defined milestones, responsibilities, and performance targets—are to be developed by the end of FY 2008. A draft memo is being circulated internally at DOE HQs for review, which will formally announce the TEAM Initiative.

2. Revisions to DOE Order 430.2b and 450.1 – Jane Powers, 202-586-7301, Jane.Powers@hq.doe.gov and Steve Woodbury, 202-586-4371, Steve.Woodbury@hq.doe.gov

Assistant Secretary Karsner was briefed by Tom Traceski (HS-21) last week on the goals in DOE Order 450.1. The preliminary timeline for revising DOE Order 450.1 includes a draft review by the field in late August, subsequent review through the RevCom process, and final issuance in February/ March 2008. Many of the strategies that are listed in DOE Order 450.1 to achieve the P2 and Sustainable Environmental Stewardship Goals are now requirements of the EO so those changes will be made to the order. DOE Order 450.1 will now only include 4 goals, with the High Performance Sustainable Buildings goal being incorporated into DOE Order 430.2b.

EO 13423 requires EMSs at all appropriate levels within DOE. Currently, HS-20 is discussing what constitutes an “appropriate level” for an EMS. During the call, the sites were asked if site offices and/or PSOs should have their own EMSs. Several sites stated that a field office should not be required to have an EMS. Currently there is no restriction on a site office actually implementing an EMS if they are inclined to do so. Another option for field offices is to incorporate elements of EMS into their ISMS.

In addition, EMS and ISMS must be integrated. One issue with this integration is the assessment process: ISMS requires annual reviews while EMSs require third-party reviews every 3 years. One potential solution discussed was extracting out the environmental portion of the EMS/ISMS every three years for review.

3. Pantex Moratorium Pilot Project Update – Julie Chavarria, (806) 477-5906,

Pantex is currently waiting on Headquarters for an approval letter which will allow the project to begin. The approval package has not been sent to the other PSOs at this time.

Note: The August 16, 2007 P2 conference call has been rescheduled to August 23, 2007.

August 2007 P2 Conference Call
23 August 2007

1. Electronic Stewardship Update – Jeff Eagan, 202-586-4598,
Jeff.Eagan@hq.doe.gov

The CEQ Instructions for Implementing Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, require that sites “choose either to become a partner in the Federal Electronics Challenge (FEC), or to implement an equivalent electronics stewardship program that addresses purchase, operation and maintenance, and end-of-life management strategies for electronic assets consistent with FEC’s recommended practices and guidelines.” (CEQ Instructions, pages 33-34)

Information on what will constitute an electronics stewardship program equivalent to FEC will not be available for several months, making partnership in the FEC even more attractive. Contact Jeff with any questions or concerns regarding becoming an FEC partner.

2. Pollution Prevention (P2) Reporting– Josh Silverman, 202-586-6535
josh.silverman@hq.doe.gov

The Pollution Prevention Tracking and Reporting System (PPTRS) will be up and running from 1 October to 1 December 2007. The PPTRS is very similar to last year’s version; one minor change was made to align DOE’s electronics reporting requirements with the FEC reporting requirements.

The PPTRS guidance document and data call memo are under development.

3. Environmental Management Systems (EMS) Reporting – Steve Woodbury, 202-586-4371, Steve.Woodbury@hq.doe.gov

For the second year, the FedCenter site will be used for gathering EMS reports. The 2007 EMS report page will be available on 1 October; there are no major changes from last year’s process.

4. Revisions to DOE Order 450.1 – Jane Powers, 202-586-7301,
Jane.Powers@hq.doe.gov

The pre-RevCom version of DOE Order 450.1 should be available for review during the first week of September. The draft, a comment submittal form, and the request for comments will be sent to recipients on the EMSAN and P2 distribution lists. The HS offices at Headquarters will be reviewing the draft concurrently with the field review.

The draft order will be featured during an upcoming EMSAN call.

5. Managing Electronics Disposal at ORNL – Marcia Whitson, 865-241-5120, whitsonmd@ornl.gov

Oak Ridge National Laboratory (ORNL) discovered an environmentally friendly and revenue producing outlet for electronics that were not suitable for its K-12 Computers for Learning program. A vendor, Global Investment Recovery, Inc., (<http://www.girpm.com>) transports ORNL's non-functional electronics at its own cost and shares part of its profits with ORNL. To-date, ORNL has made 23 shipments of electronics and garnered \$27,474.45 in revenue.

The ORNL went to great lengths to ensure the suitability of the vendor and paid particular attention to the vendor's licenses, insurance coverage, financial stability, processes, security, references, and standing with EPA and state regulators. The selected vendor is ISO 14001 certified and, as a party to the Basel Action Network (BAN) Stewardship Pledge, is committed to not transferring hazardous electronic waste from rich to poorer countries.

6. Energy Conservation at ORNL – Greg Palko, 865-574-4088, palkocg@ornl.gov

In order to achieve the Secretary's 30% energy consumption reduction in the face of uncertain future energy costs, the need for new and evermore expensive equipment, aging infrastructure, and high energy needs, ORNL is focusing its efforts on increased energy efficiency and changes in its operations and maintenance program. ORNL began by identifying its largest energy users and targeting those areas for activities such as moving to an "on demand" need as opposed to a continual stream of steam, rebuilding a condensate return system (resulting in an annual savings of \$200K to date), and improving steam pipe insulation. Additional energy saving initiatives included variable frequency drives on ventilation hoods (which also improved in-lab hood performance), sub-metering for some local building systems, and drop-in replacement breakers (which contribute to increased safety).

ORNL is also encouraging behavioral changes to save energy. Incentive programs for Lab directorates, rewards for significant energy reductions, and a campaign to stress smart energy use are all part of ORNL's effort to achieve the Secretary's goal.

NOTE: Many P2 call participants requested additional information on this ORNL program. Greg will supply the requested information during the week of 27 August.

7. Pantex Moratorium Pilot Project Update – Craig Snider, 806-477-5906, csnider@pantex.doe.gov

Headquarters' personnel recently conducted a site visit for a first-hand review of the processes and areas that would be used when the recycling protocol is approved. The protocol should be approved shortly.

Note: The next P2 conference call is scheduled for 20 September 2007.

September 2007 P2 Conference Call
20 September 2007

1. Pollution Prevention, EPP, and EMS Reporting – Josh Silverman, 202-586-6535 josh.silverman@hq.doe.gov; Steve Woodbury, 202 586 4371, Steve.Woodbury@hq.doe.gov

The FY 2007 Data Entry Guidance for the Pollution Prevention Tracking and Reporting System (PPTRS) is now available on the P2 data entry site: <http://www.hss.energy.gov/NuclearSafety/NSEP/p2/dataentry.html>. The PPTRS will be operational from 1 October to 3 December 2007. In order to prepare DOE's submissions to the White House Closing the Circle Award, the program offices will have until 17 December to select their Best-in-Class nominees from the nominations submitted through the PPTRS.

The PPTRS contains the P2 Performance Database and the EPP Database; the same user name and password are used for both databases. The PPTRS is very similar to last year's version; one minor change was made to align DOE's electronics reporting requirements with the FEC reporting requirements.

The EMS reporting for 2007 will also be very similar to that done for the last year and will be again accomplished through FedCenter.

2. DOE Order 450.1 Revision – Jane Powers, 202-586-7301, Jane.Powers@hq.doe.gov

The pre-RevCom coordination version of DOE Order 450.1 was recently sent to individuals on the P2, EMSAN, and EFCOG distribution lists with a request for their review and comment. An Excel form for submitting written comments was included with the distribution; comments are due by Monday, 8 October.

In addition to the comment form, HS will be soliciting comments and feedback on the 450.1 revision during the Wednesday, 26 September EMSAN call slated for 1:00-2:30 PM (Eastern). The contact information is 301-903-9193, reservation number 186128. If needed, a second EMSAN call to discuss the revised order will be held on Wednesday, 3 October from 1:00-2:30 PM (Eastern) with this contact information: 301-903-9195, reservation number 187480. The EMSAN discussions may answer questions and resolve issues thereby minimizing reviewers' efforts in submitting written questions and concerns.

RevCom review of the revised order should begin in mid-November.

3. ORNL's LEED Campus – Kathy Carney, 865-576-5748, carneyka@ornl.gov; Cecil Peters, 865-576- 2730, petersrc@ornl.gov; Warren Thomas, 865-576-6309, thomaswk@ornl.gov

Oak Ridge National Laboratory's (ORNL) east campus is the only fully LEED-certified campus in Tennessee and in the DOE complex. One of the six buildings on the campus is LEED Gold certified. ORNL's Master Specification format requires LEED certification and includes many green specs.

Building the east campus was part of \$350 million Facilities Master Plan which combined funding from the Federal government, the State of Tennessee, and private parties and emphasized sustainability. The following accomplishments resulted from that emphasis:

- 14 million gallons of water are saved annually (primarily through use of low-flow plumbing fixtures),
- 54% energy savings over typical, existing ORNL facilities,
- heating and air conditioning systems that are 25-30% more efficient than the American Society of Heating, Refrigerating, and Air-Conditioning Engineers 90.1 energy standard,
- more than 7,000 of the 8,400 tons of construction debris were recycled, and
- natural landscaping using native plants reduces water usage.

ORNL will be awarded the 2007 WasteWise Gold Achievement Award for its efforts in developing its east campus.

4. Fleet Management at ORNL – Kathy Settles, 865-574-4326, settleske@ornl.gov

ORNL's conversion to biodiesel (B20) is now complete with the exception of non-use in emergency generators due to concerns about the lack of fuel turnover in them. The Laboratory has not experienced any problems with the conversion but took the steps of slowing moving from B5 to B20 and completely cleaning out all tanks prior to biodiesel storage. Approximately 24% of the 476 vehicles in the fleet are ethanol vehicles and efforts are underway to update the age of the fleet to accommodate additional alternative fuel use.

5. OFEE 2008 Environmental Symposium – Beverly Whitehead, 202-586-6073, Beverly.Whitehead@hq.doe.gov

The Office of the Federal Environmental Executive (OFEE) is considering holding the 2008 Environmental Symposium in a "West" forum on May 13-15, 2008 in addition to the "East" forum on June 2-4, 2008. The program agenda would be the same at both locations but there may be variation in speakers. The West symposium would be held in Yellowstone National Park; the East symposium at the National Institutes of Health (NIH) Bethesda, MD.

The OFEE is trying to determine if there is enough interest to pursue planning for the West symposium and has asked Federal agencies to gage that interest. Please complete the brief survey form sent to the P2 distribution list members on 14 September and return it to Beverly Whitehead by Wednesday, 10 October.

**6. Electronic Stewardship Update – Jeff Eagan, 202-586-4598,
Jeff.Eagan@hq.doe.gov**

FEC Reporting: DOE is investigating whether the DOE electronics stewardship reporting process is sufficiently duplicative of the FEC reporting requirements to automatically satisfy the FEC reporting requirements. This is a work in progress.

EPEAT: The Energy Star 4.0 guidelines are being incorporated into EPEAT. Please contact Jeff with any concerns that have been raised regarding procurement of EPEAT items.

Electronics Reuse and Recycling Campaign: The campaign begins on 15 November and ends on 15 March. During the last campaign, 16 DOE facilities recycled 625,000 pounds of electronics equipment which resulted in DOE winning the National Agency Award and two facilities received awards as well.

**7. Pantex Moratorium Pilot Project Update – Steve Domotor, 202-586-0871,
STEPHEN.DOMOTOR@hq.doe.gov**

At the request of NNSA, HS-22 reviewed the Pantex proposed protocol in terms of its technical soundness, corporate approach (i.e., usefulness at other DOE sites), and optics (due to the sensitive nature of the topic). HS-22 recommended enhancements to several survey protocols, additional confirmatory reviews, and expanded reference to DOE orders and policies. Those recommendations are now being addressed.

Note: The next P2 conference call is scheduled for 18 October 2007. Please contact Beverly Whitehead with any issues or areas you'd like to see raised during the P2 calls.

**October 2007 P2 Conference Call
18 October 2007**

1. DOE Order 450.1 Revision – Josh Silverman, 202 586 6535
josh.silverman@hq.doe.gov

More than ninety comments and observations were made during the pre-REVCOM review of draft O 450.1A. The collated comments and the responses to them will be distributed to the P2 conference call participants within the next one to two weeks. The comments have resulted in changes to the draft order. RevCom review of the revised order is still expected to begin in November.

2. Pollution Prevention, EPP, and EMS Reporting – Josh Silverman, 202 586 6535
josh.silverman@hq.doe.gov

The Pollution Prevention Tracking and Reporting System (PPTRS) is temporarily unavailable due to maintenance. We apologize for any inconvenience, and will send another message to registered system users when the PPTRS is returned to service.

3. ORNL's Chemical Management Center – Susan Michaud, 865 576 1562,
sun@ornl.gov

Oak Ridge National Laboratory's (ORNL) Chemical Management Center (CMC) was created to address concerns that the Laboratory's largest hazardous waste stream consisted of excess, unused chemicals. The CMC is co-located with the 90-day RCRA accumulation area. Chemicals must be in their original containers, be in good condition, and not be contaminated in order to be accepted into the CMC. CMC personnel suggest how owners can dispose of time or temperature sensitive items, gases, drugs, and precious metals – items the CMC does not accept.

The CMC inventory is made available to labs and the CMC can access lab inventories to either suggest that the lab check out CMC's stock or act as a broker of items the CMC cannot accept but someone else could use. The procurement office maintains a link to the CMC inventory but purchasers are not required to determine if the CMC can meet their needs.

4. Dissolvable Personal Protective Equipment – Bob Wingo, 505 665 0216, wingo@lanl.gov

Los Alamos National Laboratory launched a pilot project to investigate the benefits of using dissolvable rather than launderable personal protective equipment (PPE). To date, the benefits are that the dissolvable PPE is lighter weight than its launderable counterpart, is puncture proof, and is estimated to save \$430,000 if used on a limited site-wide basis. The used PPE is returned to the vendor for the dissolving process; the effluent from that process meets the municipal solid waste acceptance criteria. Any residual radioactive contamination in the PPE is picked up in the dissolving process through an ion exchange column.

5. OFEE 2008 Environmental Symposia – Beverly Whitehead, 202 586 6073, Beverly.Whitehead@eh.doe.gov

The Office of the Federal Environmental Executive (OFEE) determined that there is sufficient interest to conduct “East” and “West” 2008 Environmental Symposia. The East event will take place 2-4 June at the National Institutes of Health in Bethesda, Maryland; the West event is scheduled for 10-12 June in West Yellowstone, Montana. At this point, the program tracks will be the same at both locations but consideration is being given to adding tracks in water conservation and agriculture to the West event. The DOE P2 Workshop will be held in conjunction with the East event and may also be offered at the West event.

6. Electronic Stewardship Update – Jeff Eagan, 202 586 4598, Jeff.Eagan@hq.doe.gov

The Energy Star 4.0 guidelines are being incorporated into EPEAT; DOE is committed to acquiring equipment that meets the guideline. The IEEE (Institute of Electrical and Electronics Engineers) 1680 Standard for Environmental Assessment of Personal Computer Products (including laptop and desktop computers, and monitors) will be integrated into the FAR (Federal Acquisition Regulations) as an interim final rule; a provision will also be developed for the DEAR (Department of Energy Acquisition Regulations).

The upcoming Electronics Reuse and Recycling Campaign will run a full twelve months as opposed to four months in past years. During the last campaign, 16 DOE facilities recycled 625,000 pounds of electronics equipment which resulted in DOE winning the National Agency Award and two facilities received awards as well.

A Federal Electronics Partnership (FEC) conference call is scheduled for Thursday, 1 November at 1:00 p.m. Eastern. The subjects of the call are the annual reporting and award application processes. The call in number is 1-866-299-3188; the conference code 899999. In addition to participating in the conference call, contact Jeff for assistance in

completing the FEC awards process.

7. Pantex Moratorium Pilot Project Update – Craig Snider, 806 477 5906,
csnider@pantex.doe.gov

DOE Headquarters continues to review the pilot protocol. In the meantime, Q&A material is being prepared in anticipation of any congressional inquiries.

Note: The next P2 conference call is scheduled for 15 November 2007. Please give me a call with any issues or areas you'd like to see raised during the P2 calls.

November 2007 P2 Conference Call
15 November 2007

1. Update on Electronic Stewardship – Jeff Eagan, 202 586 4598,
Jeff.Eagan@hq.doe.gov

Please keep in mind, with the end of year reporting deadlines looming, that HS-20 staff is available to assist you with any questions, particularly related to award nominations. Today also is *America Recycles Day*.

Electronics Reuse and Recycling Campaign (ERRC) kicks-off today and will run a full twelve months as opposed to four months in past years. During the last campaign, 16 DOE facilities recycled 625,000 pounds of electronics equipment which resulted in DOE winning the National Agency Award and two facilities received awards as well. The website for the ERRC is www.federalelectronicschallenge.net/errc.

2. Pollution Prevention Reporting – Josh Silverman, 202 586 6535
josh.silverman@hq.doe.gov

The Pollution Prevention Tracking and Reporting System (PPTRS) is temporarily unavailable due to maintenance. The system should be available in the next two weeks. The reporting deadline has been extended from December 1st to December 31st

3. EMS Reporting – Steve Woodbury, 202 586 4371 steve.woodbury@hq.doe.gov

The FedCenter Reporting website opened in October with the reporting deadline set as December 1st. Please login into the system, if you have not already done so, to make sure that you are able to enter data and do not have any questions.

4. Update on DOE Order 450.1A – Jane Powers, 202 586 7301,
jane.powers@hq.doe.gov

Thank you for the pre-REVCOM participation. A summary of comments and responses has been distributed within the last week for review. If for some reason, previously submitted comments were not include in this comment and response document, please let us know and those comments will be added.

The REVCOM process for DOE Order 450.1A will be a 90 day process, with a 30-day review period. Due to EE's accelerated schedule, HS-21 was not able to coordinate the REVCOM process for DOE Order 430.2b with 450.1A.

5. Waste Minimization Using Green Chemistry – Steve Lockwood, 505 845 7007, sjlockw@sandia.gov

Sandia National Laboratories' Ceramic and Glass Department, at a client's request, generated hydrogen using cobalt ferrite. Based on the original process, the waste cost would have dwarfed the initial project costs. The generation of hydrogen was initially completed on a small batch scale to be ramped up upon successful demonstration of the project. In total, nine batches were completed to provide a final product.

The initial batch generated 16 liters of wastewater per 20 grams of product. In order to generate 1 kilogram, over 800 liters of wastewater would be generated. The overall process was modified to eliminate the generation of wastewater.

By adopting green chemistry principles from the start of the project, the following benefits were achieved:

- 97.4% reduction in process volume
- For 5 kg material, hazardous waste volume reduced by ~ 4200 L (1100 gal)
- At \$28/kg waste disposal cost, this represents a savings of over \$100,000

Note: Slides were distributed prior to the conference call via e-mail.

6. Green Bullet Use at Firing Range – Steve Rivera, 505 667 6427, slrivera@lanl.gov

Los Alamos National Laboratory currently uses green bullets, where possible, at its firing ranges. The green bullets used are a copper compound and do not use tungsten. Green bullets are typically used for practice and training.

LANL is not currently 100% lead free at the range for three reasons: 1) lead free rifle ammunition is not accurate at long distances; 2) the security force has to qualify with duty ammunition, and belted ammunition generates heat and can damage the weapon; 3) green bullets are also expensive and have limited manufacturers available.

LANL has not seen any significant environmental or health impacts associated with the use of lead bullets. A nearby waterway has been monitored for lead, with none presently detected. The bullets are solely in the berm, which is not touched.

7. OFEE 2008 Environmental Symposia – Beverly Whitehead, 202 586 6073, Beverly.Whitehead@hq.doe.gov

The Office of the Federal Environmental Executive (OFEE) determined that there is sufficient interest to conduct "East" and "West" 2008 Environmental Symposia. The East event will take place 2-4 June at the National Institutes of Health (NIH) in Bethesda, Maryland; the West event is scheduled for 17-19 June in West Yellowstone, Montana. At this point, the program tracks will be the same at both locations but consideration is

being given to adding tracks in water conservation and agriculture to the West event. The DOE P2 Workshop will be held in conjunction with the East event and may also be offered at the West event. In January 2008, there will be a call for papers for both symposia.

At the request of OFEE, I (Beverly Whitehead) will serve as the liaison for the OFEE 2008 East and West Environmental Symposia for DOE headquarters and the DOE sites. I will be working closely with OFEE to help disseminate information out to the DOE complex regarding the symposia. Therefore, if you have questions or concerns regarding the symposia, please give me a call.

8. Update on Environmentally Preferable Purchasing – Donald Lentzen, 202 586 7428, donald.lentzen@hq.doe.gov

The U.S. Department of Energy purchases products with the most environmental attributes possible, especially those attributes designated by Congress for purchase. DOE conducts quarterly EPP conference calls to assist the sites in purchasing environmentally preferable products. Minutes of these calls are available at http://www.hss.doe.gov/pp/epp/teleconferences_tools.html. The homepage of the EPP website can be found at <http://www.hss.doe.gov/pp/epp/>.

The next EPP conference call is scheduled for 24 January 2008. Please contact Don Lentzen to be added to the EPP e:mail list to receive the agenda for that call.

Note: The next P2 conference call is scheduled for 20 December 2007. Please give me a call with any issues or areas you'd like to see raised during the P2 calls.

**December 2007 P2 Conference Call
20 December 2007**

1. Update on DOE Order 450.1A – Steve Woodbury, 202 586 4371
steve.woodbury@hq.doe.gov

Draft DOE Order 450.1A is currently in the REVCOM process. The REVCOM process for DOE Order 450.1A will be a 90 day process, with a 30-day review period. Comments are due by January 10th. The Order is still on track for a final version in March 2008.

DOE has negotiated with OFEE to extend the deadline for compliance with the new EO 13423, specifically the third party certification requirements, until March 30, 2009 instead of December 2008. This gives sites a full year from the expected release of the new O 450.1A.

Due to EE's accelerated schedule, HS-22 was not able to coordinate the REVCOM process for DOE Order 430.2b with 450.1A.

2. Update on DOE Order 430.2B – Josh Silverman, 202 586 6535,
josh.silverman@hq.doe.gov

Draft DOE Order 430.2B was entered into REVCOM in November. EERE has reviewed those comments and has either responded to them or made changes to the draft Order. The second iteration of the draft Order has entered the REVCOM process with a deadline in the first week of January (2 week REVCOM period).

3. Alternative Uses for Halon– Jim Stanton, 505 667 0104 jks@lanl.gov

In 2006, LANL moved 32,000 pounds of Halon over to the Department of Defense from re-use, saving over \$100,000 in disposal costs. Most Halon is now recycled or reused, except for specialty uses. Inventory is tracked and managed through a refrigerants compliance software package.

The process for Halon recycling is to first offer other Federal sites the opportunity to reuse the refrigerant. When possible, shipping and transportation is coordinated with those sites.

4. Pollution Prevention Reporting – Don Lentzen, 202 586 7428
don.lentzen@hq.doe.gov

The PPTRS reporting period is closing December 31st. The site profiles are mostly complete but most sites have not completed the recycling portion of the database. Please complete all your data entry requirements as soon as possible with the holidays on the horizon.

Each PSO has their own procedures for “finalizing” the data so please check with your PSO contact if you are unsure of who finalizes your site’s data.

Please note that award nominations especially need to be completed by December 31st to ensure timely submittal to the White House Closing the Circle Awards. Received award nominations will be forwarded to the appropriate PSO on January 2nd. Each PSO will select their “best in class” for submittal to the CTC process by mid-January.

5. EMS Reporting – Steve Woodbury, 202 586 4371 steve.woodbury@hq.doe.gov

The reporting deadline for EMS reporting has passed. Data is currently being compiled and analyzed, specifically the open-ended questions at the end of the data entry process. Thanks to everyone for their prompt and thorough reporting.

6. Proposal to Expand and Re-Name DOE P2 Network – Beverly Whitehead, 202 586 6073, Beverly.Whitehead@hq.doe.gov

HS-20 is proposing to broaden the scope of the DOE Pollution Prevention (P2) Network. This change recognizes the fact that DOE sites have been implementing environmentally sustainable practices and will be re-invigorating their efforts in light of the issuance of Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, DOE Order 450.1A, *Environmental Protection Program*, and DOE Order 430.2B, *Departmental Energy, Utilities and Transportation Management*. Accordingly, in order to reflect that expanded scope, HS-20 suggests that the new network be titled the **DOE Environmental Sustainability Network (ESN)**.

Please let me know if you have questions or concerns by January 4, 2008.

7. OFEE 2008 Environmental Symposia – Beverly Whitehead, 202 586 6073,
Beverly.Whitehead@hq.doe.gov

The Office of the Federal Environmental Executive (OFEE) will conduct an “East” and “West” 2008 Environmental Symposia. The East event will take place 2-4 June at the National Institutes of Health (NIH) in Bethesda, Maryland; the West event is scheduled for 17-19 June in West Yellowstone, Montana. All Program Track Lead positions have

been filled. The DOE P2 Workshop will be held in conjunction with the East Symposium.

There will be a call for papers January 7 – February 15, 2008 for the East and West symposia. Information will be available through the FedCenter at www.fedcenter.gov.

On June 20th, DOE is sponsoring a one day EFCOG/DOE EMS Workshop at Yellowstone. Please plan on attending this workshop if you are attending the “West” Symposium, which ends on June 19th. The EFCOG Planning Group will be issuing a call for papers in conjunction with the call for papers for the OFEE Symposia through the FedCenter.

8. Update on Electronic Stewardship – Jeff Eagan, 202 586 4598, Jeff.Eagan@hq.doe.gov

Currently, 7 DOE facilities have already signed up for the ERRC. DOE is projecting that at least 25 sites are needed to regain the ERRC “crown.” During the last campaign, 16 DOE facilities recycled 625,000 pounds of electronics equipment which resulted in DOE winning the National Agency Award and two facilities received awards as well. The website for the ERRC is www.federalelectronicschallenge.net/errc. Please sign-up.

Please note that electronic recycling information to be entered into the PPTRS aligns with the FEC reporting database. FEC reporting is to be completed by January 31st. The same information can be reported to FEC as is reported to the PPTRS.

Please call Jeff Eagan at 202 586 4598 with any questions or concerns.

Note: The next P2 conference call is scheduled for 17 January 2008. Please give me a call with any issues or areas you would like to see raised during the P2 calls.

HAPPY HOLIDAYS !!