

The



December 2009



Message

Day of Remembrance Celebrated Throughout DOE

On October 30, 2009, HSS joined with DOE sites throughout the country to commemorate the first “Day of Remembrance,” enacted by Congress, in honor of the Department’s former and current workforce dedicated to the development and maintenance of the United States nuclear weapons program. This Day of Remembrance provided the Nation the opportunity to recognize and honor the men and women who tirelessly served our country by building and maintaining our nuclear weapons complex during World War II through the Cold War; and who continue serving today.

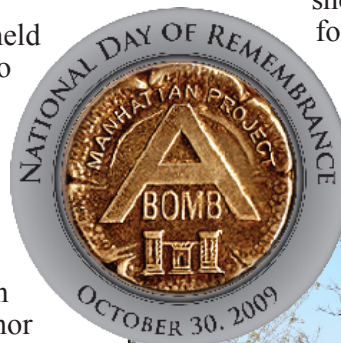
Energy Secretary Steven Chu took part by recording a video message, personally thanking DOE’s nuclear scientists, engineers, experts, and support staff, both past and present,

for their service over the past 60 years. In addition, the Secretary stated that “Because of our exceptional workforce and strong national investment, the Department of Energy and National Nuclear Security Administration have the best science, technology, and engineering enterprise in the world.” The message was posted on YouTube and was viewed at many of the sites as part of the overall celebrations.

DOE sites held events unique to their facilities’ distinctive roles that contributed to the mission, focusing upon the common theme, “Honor the Past, Look Toward the Future.” Many sites held public events involving local community service organizations, worker unions, Cold War veteran organizations, and local, state, and national governmental dignitaries. Former and current workers’ response was extremely positive and at times emotional, especially when remembering those who are no longer

with us. One worker commented that, “This was a great place to work, we were all like family, I am still proud of what I did, honored that I provided this service, and we were well taken care of then and even today.”

The Chief Health, Safety, and Security Officer, Deputy Chief, and other HSS staff were in attendance at several public events to provide remarks, show support for our current and former nuclear workers, and distribute the National Day of Remembrance Commemorative Pins (see photo).



Scene from Pantex Celebration

Day of Remembrance Celebrated Throughout DOE..... 1

HSS Training on Sustainable Practices in Environmental Management Systems..... 2

National Training Center To Focus on Quality and Accessibility..... 4

NTC Enhances Energy Efficiency with Roofing Project..... 5

Several Manhattan Project workers in attendance at the events displayed their original pins while others were appreciative of the new pins as they had misplaced the pins presented to them in 1945 by the Secretary of War, Henry Lewis Stimson.

Day of Remembrance commemorative pin, developed by the DOE Office of Health, Safety and Security, incorporates a replica of the lapel pin issued to Manhattan Project workers in 1945 by the Secretary of War.

HSS sincerely appreciates the hard work by both Federal and contractor site staff who conducted honorable and memorable ceremonies to remember our former workers and recognize our current workforce. ■

HSS Training on Sustainable Practices in Environmental Management Systems

Since May 2009, HSS has been conducting training workshops on *Implementing Sustainable Practices in Environmental Management Systems: The Cultural Change Game*. The main objectives of this training are to: (1) create awareness of sustainability and its relationship to an organization's mission and activities; (2) create awareness of the general content

in a new HSS training resource on *Implementing Sustainable Practices into Environmental Management Systems (EMSs)*; (3) assist in identifying near-term sustainable practices for a program; and (4) offer strategies for coordination and communication that can be used to expand relationships among EMS managers and site operations and activities managers.

The training workshops address Agency goals outlined in Executive Order (EO) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*. DOE has implemented this EO through DOE Order 450.1A, *Environmental Protection Program*, and DOE Order 430.2B, *Departmental Energy, Renewable Energy and Transportation Management*. Departmental goals from these DOE orders are described in the training resource and workshop, including electronics stewardship, energy efficiency, green acquisition, high performance and sustainable building, pollution prevention, recycling, renewable energy, toxic or hazardous chemicals and materials use reduction, vehicle fleet management, and water conservation.

In focus groups conducted by the HSS Office of Nuclear Safety, Quality Assurance and Environment (HS-20), DOE site contractors and field office personnel said they need assistance in helping other programs and operations at their sites understand how their activities may impact the environment. The focus groups brainstormed approaches for involving the "owners" of site operations and activities in implementing the sustainable practices required by EO 13423, and their recommendations formed the basis of the training resource and workshops.

2009 Training and Workshops

- Idaho National Laboratory – 5/09
- Federal Environmental Symposium West, Bellevue, WA – 6/09
- Federal Environmental Symposia East, Washington, DC – 6/09
- Sandia National Laboratories, NM – 7/09
- GovEnergy Conference, Providence, RI – 8/09
- Lawrence Berkeley National Laboratory and SLAC National Accelerator Laboratory – 10/09
- Los Alamos National Laboratory – 10/09
- Environmental Protection Agency (EPA) Health, Safety and Environmental Management Conference, San Francisco, CA – 10/09
- Lawrence Livermore National Laboratory – 10/09
- DOE Nevada Site Office – 10/09
- National Nuclear Security Administration (NNSA) Fleet Managers Meeting, Albuquerque, NM – 10/09
- EPA/States/Department of Defense Sustainability Colloquium, Washington, DC – 11/09



MATRIX (example)

	Building Operations and Maintenance	Design and Construction	Fleet Management	IT Management	Procurement / Purchasing	Production and Process Operations	Security	Utility Management	Waste Management
HIGH PERFORMANCE AND SUSTAINABLE BUILDING:									
<u>(1) Install sustainable building materials and practices throughout the Department's existing building assets.</u>	●	●			●		○		●
<u>(2) Achieve LEED Gold certification for all new construction and major renovations in excess of \$5 million.</u>		●			○		○		○
<u>(3) Comply with Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings for buildings below \$5 million.</u>		●			○		○		○
<u>(4) Ensure 15% of the Department's capital asset building inventory incorporates the sustainable practices of the Guiding Principles for energy and water related principles. (430.2B goals)</u>	●	●			○		○	○	
<u>(5) Labs21. The Department must use programs such as the Labs21 partnership to encourage the development of sustainable, high performance, and low-energy laboratories. (430.2B at section 4.c(7))</u>		●			●	●			

KEY:
 "solid" circle = direct role of specified operation/activity in implementing specified sustainable practices to achieve specified goal
 "open" circle = supporting role in implementing specified sustainable practices to achieve specified goal

Sustainable practices in an EMS are innovations in the way of doing business with a focus on environmental stewardship as well as economic and social impacts. The training workshops provide information on identifying challenges to, and offer strategies for supporting, the changes required to advance sustainability within DOE organizations.

Successful implementation of sustainable practices often requires cultural change. The new training resource is structured to engage a range of audiences, including the people who *plan* the work and the people who *do* the work. The use of a matrix (see above) as a management tool to link operations with sustainable practices is one of the key strategies emphasized by the training workshops. A site-specific matrix may be useful in identifying untapped resources or partners and reinforces the point that

a robust team approach is critical to a successful EMS.

In addition, HSS is helping DOE conduct operations and activities to minimize the direct and indirect generation of greenhouse gases and comply with EO 13423 and recently released EO 13514, *Federal Leadership in Environmental, Energy and Economic Performance*. The EOs are being implemented by a series of requirements outlined in DOE Orders 430.2B and 450.1A. These requirements include purchasing energy that uses high-efficiency and low-carbon generating technology, reducing the use of petroleum-based fuels in DOE-owned buildings and facilities by switching to non-petroleum-based energy sources such as natural gas or renewable energy, providing dual-fuel capacity for buildings and facilities that use petroleum-based fuel systems, and

implementing employee incentive programs for individuals and team performance in reducing greenhouse gas emissions. They also include the purchase of environmentally preferable products, implementing energy-efficient practices in operating buildings and electronic equipment, and managing chemicals to reduce environmental impacts associated with their purchase and use.

To learn more about the training resource and workshops, contact Jane Powers at (202) 586-7301 or jane.powers@hq.doe.gov. ■

National Training Center To Focus on Quality and Accessibility

The National Training Center (NTC) is making significant changes to promote quality and make our training more accessible to our students. This call for change comes from several sources: students, NTC employees, and HSS management. Our approach is not through additional funding but through innovation and partnership.

We are taking opportunities, more than ever before, to partner within the HSS family to use our “in-house” subject matter expertise to develop, revise, and deliver training. The depth of knowledge possessed by our HSS counterparts – gained through policy development, field assistance, inspections, and enforcement – is invaluable in improving the technical content of our courses. The Chief Health, Safety and Security Officer, Glenn Podonsky, has made this partnering a priority as it is supportive of the Secretary’s vision of the significant role that HSS can perform in supporting the Department’s mission. On November 30 through December 1, we are conducting a workshop at the Forrestal Building in Washington, D.C., to organize, train for, and launch this effort.

The FY 2010 training schedule also reflects our emphasis on quality and

course accessibility. Our top priority is to revise courses that need updating before they are offered again and develop new courses that field sites have requested. As a result, we are offering fewer iterations of courses in FY 2010 than in the previous year. However, we will schedule at least 20 percent of our security courses and 50 percent of safety courses at field sites in order to eliminate student travel or reduce travel cost by conducting courses on a regional basis. Additionally, we are reserving open slots in our training schedule in order to respond readily to field requests for training; these requests will be filled at no cost to the site. We have reserved only a few slots in each topical area, and these will be filled on a first come basis. Training requests beyond these limited schedule openings have a significant impact and can only be filled through cost reimbursement. In the near future, this scheduling approach is also expected to enhance the predictability of course offerings, allow greater focus on course revision and development, and reduce operational variations.

We are also beginning to examine the NTC’s major internal processes, such as registration, training needs assessment, and instructional system

design, for opportunities to increase efficiency and effectiveness by asking ourselves such questions as *Why do we do this?* *Can we automate certain tasks?* and *What can we change to enhance the quality of training or the responsiveness to our customers?* Again, we are hopeful that improved processes will make our products and services more predictable and consistent.

Lastly, HSS has decided to reinstate the practice of rotating between the NTC and field sites to host the Security Protection Officer Training Competition (SPOTC). We are delighted that the Oak Ridge Reservation has agreed to host the FY 2010 SPOTC, scheduled for May 24-27, 2010. As we have in the past, the NTC will participate in the conduct of the competition and remain the steward for SPOTC as an important Departmental event and as an institution.

We believe that all of these changes will enhance or enable the needed improvements in the training the NTC provides to the Department’s safety and security professionals. We look forward to getting your feedback on achieving our objectives and providing quality training. ■

NTC Enhances Energy Efficiency with Roofing Project

The NTC has begun a campaign to roof several of the facilities on the main campus. These roofs have approached the end of their life-cycle and costly repairs have been anticipated. In order to obtain the greatest value for the taxpayer dollar, the NTC analyzed

options for a roofing campaign. One very critical component incorporated into the decision process was energy efficiency and environmental sustainability. The analysis included discussions with roofing companies to learn of the various roofing

systems available. The NTC opted for a Thermoplastic Olefin (popularly referred to as TPO) installed over a recovery board. In addition to enhancing the R-value of the roof, the recovery board provides a level surface with appropriate separation

between the existing roof cover and the TPO. The TPO membranes are single-ply roof membranes constructed from ethylene propylene rubber. They have been tested as having excellent resistance to ozone, are algae-resistant, environmentally friendly, and safe to install. TPO is highly resistant to tears, impacts, and punctures with good flexibility to allow for building movement. Additionally, the white color selected by the NTC boasts an impressive solar reflective index of 97 out of a possible 100. Thus, the NTC was able to accomplish numerous objectives with the roofing campaign which, to name a few, include: (1) protection of U.S. Government property both real and personal, (2) enhancement of the energy efficiency of the NTC facilities, (3) and support to the ever important goals of environmental sustainability. ■



HSS re-roofs several of the NTC's facilities in Albuquerque, NM, with energy efficient and environmentally friendly materials.

Solicitation of Comments, Questions, and Suggestions



HSS welcomes your thoughts about our newsletter. Please send or phone comments, questions, or suggestions to:

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This newsletter can be found on the HSS website at <http://www.hss.doe.gov>