2005 Pollution Prevention Workshop
P2 Awards Ceremony
May 2, 2005

About the 2005 P2 Star Awards

- 2005 is the inaugural year of the Office of Environment, Safety and Health's P2 Star Award. The P2 Star Award is an extension of DOE's pollution prevention awards program which is in its 11th year.

- P2 Star Award recipients were selected from 33 nominations from across the complex representing a wide range of exemplary performance in integrating pollution prevention into site operations to:
  - reduce risk,
  - protect natural resources, and
  - enhance site operations.

- Representatives from sites that won P2 Star Awards were recognized during the opening reception of the DOE/NNSA Pollution Prevention Workshop in Las Vegas, NV on May 2, 2005.

Click HERE to view photos from the P2 Workshop

- Duplicates of these awards were given to representatives from NNSA and DOE Program Offices for their respective sites at the HQ Earth Day ceremony at the Forrestal Building on April 22, 2005.

Click HERE to view photos from the Earth Day ceremony

2005 P2 Star Award Winners:

1. Recipients: Steve Mackmull; John Harley
Organization: Savannah River Site (EM)
Award: New Market for Unserviceable Cargo Containers

- The Savannah River Site received this award for developing a program to recycle unserviceable cargo containers for use as waste disposal containers.
- The site obtains unserviceable cargo containers – otherwise destined to be disposed as waste – from commercial entities and the Department of Defense and works with a local vendor who refurbishes them to meet required waste disposal specifications.

- The benefits of this activity include
  - a new market for a recyclable item,
  - a recycle network that extends from supplier to end-user,
  - economic enhancement of a local small business, and
  - estimated savings of $12 million over 3 years.
- In addition, several other DOE sites are now using these refurbished containers which drives down their waste disposal costs.

2. Recipient: Katherine Batiste
Organization: Strategic Petroleum Reserve (FE)
Award: Preventing Downstream Emissions through Sustainable Product Stewardship

- The Strategic Petroleum Reserve received a P2 Star Award for integrating sound environmental management into the business process of developing and implementing a degasification technology.
- The use of this technology demonstrates the outcomes that can arise from integrating P2 in the EMS. The degasification technology:
  - maximizes retention and use of the Reserve's stores of crude oil,
  - eliminates 77,000 tons of volatile organic compound (VOC) emissions and 210 tons of benzene, and
  - protects workers, the public, and the environment from exposure to air emissions.
- The 25-year life-cycle evaluation associated with the technology revealed that it adds a business value of $218 million to Reserve operations.
- This project also earned a White House Closing the Circle Honorable Mention (link to OFEE CTC page).

3. Organizations:
National Renewable Energy Laboratory (EE)
National Energy Technology Laboratory (FE)
Savannah River Site (EM)
Award: Green Fleet Team

- These sites are honored for significantly reducing their petroleum consumption through efficiency measures and alternative fuel use.

- Each site achieved alternative fuel utilization rates that equated to 30% or more of its annual fuel use.
- As examples of how these sites reduced petroleum consumption, consider the following:

  - 67% of NREL's vehicles use compressed natural gas or ethanol (E85),

  - 69% of NETL's vehicles use alternative fuels and it increased its alternative fuel use by 20% over last year, and

  - the Savannah River Site operates over 400 E85 vehicles and has 2 on-site E85 fueling stations.
- These sites are commended for providing P2 leadership by example for DOE sites and other Federal agencies.

4. <u>Recipient</u>: Paul Witherstein (contractor), SM Solar Corporation
<u>Organization</u>: Grand Junction Office (LM)
<u>Award</u>: Reusing Laboratory Equipment and Supplies

- The Grand Junction Office transferred approximately $3 million worth of reusable, sophisticated instrumentation systems, precious metals, and analytical equipment to universities, colleges and DOE labs.
- Through use of services such as the DOE Energy Asset Disposal System and the DOE Material Exchange Program, the staff at the Grand Junction office found productive reuses for items such as

  - energy analyzers,
  - spectrometers,
  - filtration systems,
  - 120 gallons of sodium hydroxide, and
  - 11.7 pounds of precious metals such as gold, platinum, and palladium.
- By recycling rather than disposing of these items, Grand Junction eliminated waste streams and the DOE facilities and universities receiving these items did not have to purchase new items.
- In addition to this P2 Star Award, the Grand Junction Office received a Best in Class Award for this activity.

5. <u>Recipients</u>: Karin King; Bruce Campbell (on behalf of Reginald Gaylord, Jody Drake and Patrick Gallagher who were unable to attend the workshop)

<u>Organization</u>: Lawrence Livermore National Laboratory (NNSA)

<u>Award</u>: Chemistry Environmental Services' Low-level Waste Stream Development

- Chemistry Environmental Services at Livermore is an on-site environmental analytical laboratory that reduced its generation of mixed waste by 44% by incorporating P2 principles and practices.
- Chemistry Environmental Services achieved this reduction by developing, among other things,
  - a simple but rigorous radioactive characterization strategy,
  - a program to identify, segregate, and manage acutely hazardous material containers, and
  - a training program for low-level waste generators.
- In the process of discovering ways to reduce waste generation, the staff also significantly reduced personnel exposure to hazardous waste streams.

6. <u>Recipient</u>: Mike Schlender

<u>Organization</u>: Pacific Northwest National Laboratory (SC)

<u>Award</u>: Early Adopters Buy Bio: Greening Our Purchasing Systems

- PNNL received this P2 Star Award for highlighting bio-based products and embedding environmentally preferable purchasing (EPP) into its EMS.
- The Lab
  - incorporates EPP terms in its high-volume supply contracts,
  - identifies bio-based products that meet purchasing requirements, and
  - requires all purchase-card holders to be trained in EPP and buy bio.
- As a result of these activities, the Lab
  - achieved a 97% purchase compliance rate for recycled content products, and
  - enhances worker health through use of bio-based products