



Washington Headquarters Services  
Defense Facilities Directorate

***“Meeting Executive Order 13514  
Federal Leadership in Environmental, Energy,  
and Economic Performance”***

**Crystall Merlino, LEED AP  
Engineering & Technical Services Division**

**E2S2 Symposium & Exhibition, June 14-17, 2010**

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# *Meeting Executive Order (EO) 13514 – Federal Leadership in Environmental, Energy, and Economic Performance*

## *Overview...*

- Background of Washington Headquarters Service (WHS)
- Requirements of EO and the WHS Goals/Policies
- Progress and current status in meeting the EO

## ***Washington Headquarters Services (WHS)***

- WHS is a field activity of DoD
- WHS personnel contribute to the mission of our Defense customers by managing DoD-wide programs, operations for the Pentagon Reservation and DoD leased facilities in the National Capital Region
- WHS is organizationally aligned under the Director of Administration and Management (DA&M) for the Office of the Secretary of Defense (OSD)
- WHS provides consolidated administrative and operational support to several Defense Agencies, DoD Field Activities, the headquarters and various elements of the military departments
- WHS has approximately 1,200 civilian and military employees and 2,000 contract employees

## Washington Headquarters Services (WHS)

- The Pentagon – a building, institution, and symbol – is the headquarters of the United States Department of Defense (DoD) and the world's largest low-rise office building. It is a National Historic Landmark. It presently houses approximately 26,000 military and civilian employees and about 3,000 non-defense support personnel.
  - 6.5M gross square feet of space
  - 5-acre center court
  - Footprint is large enough to accommodate 5 Capitol buildings

*In spite of the Pentagon's tremendous size, it takes only seven minutes to walk between any two points of the building because of its unique design*



## Washington Headquarters Services (WHS)

### *The Pentagon...*

- 7,754 windows
- 77,006 SF of restrooms
- 6,133,248 SF exterior grounds
- ~\$1million/per mth in energy bills
- \$18,000,000 annual budget for custodial contracts
- >\$300,000 spent annually on recycled content products



## ***Washington Headquarters Services (WHS)***

### **What are WHS goals?**

- Meet applicable Federal Mandates (i.e., Executive order 13514, EO 13423, EISA 2007, EPAct, etc).
- Continue sustainability integration into Design, Construction and O&M practices (use of LEED for benchmarking purposes and LEED Silver requirement)
- Institute policies to enhance the operation and ensure WHS compliance with environmental regulations, laws, and Executive Orders (EO) and LEED criteria .

# Washington Headquarters Services (WHS)

## Sustainability Program Purpose

- To integrate sustainability into all standard design, construction and operations at the Pentagon to achieve LEED certification(s) and be a central resource for information and status of green buildings within WHS.
  - ✓ Aid in the high performance operations and alterations of the building through education and technical support
  - ✓ Demonstrate cost savings by using 'green' integrated techniques and products
  - ✓ Incorporate 'green' language into all contracts and everyday procedures (SOPs)

*Mr. Rhodes' Commitment (signed 30 Apr 2007):*

*I am committed to maintaining a safe, healthy, and sustainable environment for WHS employees, customers, contractors, and the public. I am dedicated to making WHS a leader within the Department of Defense in safety and environmental management and will strive for continual improvement in these areas. To this end, I pledge to:*

*Seek innovative ways to prevent hazards and pollution, minimize energy use, conserve valuable resources, and reduce waste.*

## ***EO Requirements and WHS Goals/Policies***

- Metro Entrance Facility (MEF) – received “Certified” LEED rating, 2003
- Pentagon Athletic Center (PAC) – received “Certified” LEED rating, 2004
- Remote Deliver Facility (RDF) – received “Certified” LEED rating, 2005
- Pentagon Library Conference Center (PLC2) – received “Silver” LEED rating, 2008
- Wedge 2 – received “Certified” LEED rating, 2007
- Wedge 3 – received “Certified” LEED rating, 2008
- Wedge 4 – received “Silver” LEED rating, 2010
- Wedge 5 – anticipate “Silver” LEED rating, 2011

## ***EO Requirements and WHS Goals/Policies***

### ■ **Greenhouse Gas Emissions**

#### ➤ Requirement:

- ✓ Reduce scope 1 and 2 greenhouse gas emissions in absolute terms by fiscal year 2020, relative to a fiscal year 2008 baseline
- ✓ Reduce agency-wide scope 3 emissions by 2020, relative to a fiscal year 2008 baseline

### ■ **WHS – GHG Goal**

- Compliance with following federal mandates:
- Reduce GHG emissions both short term and long term
- Practice good environmental stewardship

# ***WHS Current Status in Meeting the EO***

## **Activities & Inventory**

- GHG inventory is based on WHS only.
  
- GHG team is compiled based on subject matter experts for inventory data needed. Inventory reached across many departments/offices.
  
- GHG Team Members
  - Heating & Refrigeration Plan (HRP) Manager
  - Incinerator Plan Manager
  - Federal Office Building #2 (FOB2), Navy Annex Building Manager
  - Engineering & Technical Services Division (ETSD)
  - SEMB – Environmental Team
  - SEMB – Office of the Pentagon Fire Marshal
  - FEB – Energy Manager
  - Pentagon Building Management Office (PBMO)
  - Programs and Services Division
  - Pentagon Force Protection Agency
  - Acquisition and Personal Service Division
  - Finance and Management Division

## *WHS Current Status in Meeting the EO*

### ➤ Initiative Purpose

- Compliance with following federal mandates:
  - ✓ EISA 2007
  - ✓ EO 13514 & 13423
  - ✓ DoD SSPP
- Reduce GHG Emissions both short term and long term
- Practice good environmental stewardship

### ➤ Inventory Status

- Data 98% complete
- Lacking data for employee travel – majority of emissions
- Initial data calculations have been made to assess GHG for WHS
  - ✓ 236,700 metric tons CO2-eq
  - ✓ 11 metric tons CO2e per person

## ***WHS Current Status in Meeting the EO***

### **Next Steps...**

- Evaluation of inventory for areas of improvement
- Develop report incorporating inventory, areas of improvement and next steps for implementing program
- Develop training for employees, tenants, etc
- Develop page for website dedicated to GHG program

## ***EO Requirements and WHS Goals/Policies***

### **WHS Goals in Energy Management**

- Conduct gap analysis current Program
- Develop & implement Energy Management and Monitoring Program
  - Based on initiatives already in the queue, develop an overall program for energy efficiency reductions, best practices in O&M and high performance facility implementation
- Develop & implement metering and sub-metering program
  - Use current Measurement & Verification (M&V) data to provide way ahead for where more metering is needed
  - Establish SOP for review, management, and measurement
- Develop and implement an Energy Conservation Investment Program (ECIP)
  - Develop a short and long term plan for energy initiatives to meet EISA, EO, LEED requirements
  - Submit ECIP requests to maximize funding for energy efficiency initiatives

## ***EO Requirements and WHS Goals/Policies***

### **WHS Goals in Energy Management**

- **Mission**

- Develop a Safe and Secure place for employees to work and accomplish the mission of the Pentagon. Obtain the goal and objectives

- **Objective**

- Net Zero

- **Mission**

- LEED EBOM
- Energy Star Rating 75 or above
- GHG Reduction
- Liability and Reliability with Maintainability

## ***EO Requirements and WHS Goals/Policies***

Other WHS Goals & status...

- Recycling & Construction Waste Diversion
  - Current goal to meet 40% recycling
  - Continuous improvement- investigating other ways to increase recycling percentage (i.e., single source recycling)
  - Currently meeting 98% CW with renovation
- Chemical and materials reduction
  - Inventory conducted
  - Program plan developed
  - Currently implementation

## ***EO Requirements and WHS Goals/Policies***

### Other WHS Goals & status...

- Use of environmentally friendly products/materials/services
  - Current janitorial services consist of environmentally friendly products and services (i.e., bamboo mops, bio-based cleaning supplies, chemical free, etc)
  - Implementing pilot for bio-based toner in copiers
  - Researching the use of 'eco-friendly' cafeteria products (i.e., utensils, plates, napkins)

## ***EO Requirements and WHS Goals/Policies***

In Conclusion...

- Continuing to develop & implement policy
- Continuous Improvement of programs
- Implementing reduction plan for GHG and carbon footprint
- Use of LEED for benchmarking sustainability

***Meeting Executive Order (EO) 13514 – Federal Leadership in  
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***Thank you!***

***Any Questions or Comments?***

***Crystall Merlino, LEED AP  
Sustainable/LEED Program Manager  
[Crystall.merlino@whs.mil](mailto:Crystall.merlino@whs.mil)***