



Department of Defense Environmental Management Systems Update

Lt Col Bart Barnhart
ODUSD(I&E)/EM

6 May 2009

Environmental, Energy, and Sustainability Symposium

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE 06 MAY 2009		2. REPORT TYPE		3. DATES COVERED 00-00-2009 to 00-00-2009	
4. TITLE AND SUBTITLE Department of Defense Environmental Management Systems Update				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Office of the Deputy Under Secretary of Defense (Installations and Environment),Environmental Management ,3400 Defense Pentagon, Room 3B856A,Washington,DC,20301-3400				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 4-7 May 2009 in Denver, CO.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 19	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Overview

- DoD EMS Implementation Status
 - o DoD Metric Scoring Results
 - o DoD EMS Analysis
 - o Successes/Benefits and Challenges
 - o Best Practices and Lessons Learned
- DoD EMS Instruction/Policy
- DoD EMS Path Forward
- Executive Order 13423 Implementation
 - o Integration Structure
 - o EMS and EO Goals
 - o DoD EO Policy Guidance
- Organizational EMS
- Metrics: Present and Future



DoD U.S. EMS Implementation Status

Component	US Appropriate Facilities/Orgs	Number of US Appropriate Facilities/Organizations with an EMS in Conformance*		Number of US Appropriate Facilities/Organizations with an EMS Fully Implemented**	
	Number	Number	Percentage	Number	Percentage
Army	128	18	14.1%	17	13.3%
Navy	74	7	9.5%	7	9.5%
USMC	18	18	100.0%	18	100.0%
Air Force	152	71	46.7%	60	39.5%
DLA	14	3	21.4%	3	21.4%
Total	388	117	30.2%	105	27.1%

* Conformance with Component's EMS Protocols

** Meets the requirements of EO 13423



DoD Overseas EMS Implementation Status

Component	Overseas Appropriate Facilities/Orgs	Number of Overseas Appropriate Facilities/Organizations with an EMS in Conformance*		Number of Overseas Appropriate Facilities/Organizations with an EMS Fully Implemented**	
	Number	Number	Percentage	Number	Percentage
Army	21	4	19.0%	4	19.0%
Navy	20	0	0%	0	0%
USMC	2	2	100.0%	2	100.0%
Air Force	19	15	78.9%	14	73.7%
DLA	2	0	0%	0	0%
Total	66	18	27.3%	4	6%

* Conformance with Component's EMS Protocols

** Meets the requirements of EO 13423

As of: 30 September 2008



DoD Metric Scoring Results

U.S. Appropriate Score	Number of Facilities/Orgs	Percent of Facilities/Orgs
Green	125	32%
Yellow	138	36%
Red	125	32%

Overseas Score	Number of Facilities/Orgs	Percent of Facilities/Orgs
Green	19	30%
Yellow	32	50%
Red	13	20%

DoD Overall Score	Number of Facilities/Orgs	Percent of Facilities/Orgs
Green	144	32%
Yellow	170	38%
Red	138	31%

**U.S. Appropriate Score Reported to OMB
Overseas Scores Reported Internal to DoD**

- FY2008 Annual EMS Report
- January 2009 OMB Scorecard
- Overall, DoD still Red



DoD EMS Analysis

- DoD is on track for Full Implementation by December 2009
 - o DoD Full Implementation deadline extended from Dec 2008 to Dec 2009 by the Office of Federal Environmental Executive (OFEE)
- EMS Progress is Improving
- EMS is still stove-piped into the Environmental Functions
- Senior Leadership buy-in and support needs improvement
- The Operational Impact is still vague
 - o More data/time is likely required to evaluate how EMS interacts with mission-related issues
- Contract issues will require focus and potentially, additional guidance regarding sustainability criteria.





EMS Successes/Benefits and Challenges

– Benefits/Successes

- o Improved inter-office communication of environmental programs across the installations, and across various levels of staff.
- o Improved manager and employee awareness of environmental issues and how their actions can positively or negatively impact the environment.
- o More formal, structured, consistent approach that provided clarity on requirements, objectives, roles, and responsibilities.

– Challenges

- o Lack of leadership committed to EMS.
- o EMS does not seem relevant or critical for mission success.
- o Lack of personnel to implement the program.
- o Deployment and high turnover of EMS trained personnel/leadership disrupts progress.



EMS Best Practices/Lessons Learned

– Best Practices

- o Senior leaders must be involved and advocate EMS as an installation wide program.
- o Training to key personnel is essential.

– Lessons Learned

- o EMS must have top-down implementation in order to be successful.
- o Bottom-up implementation is also vital to success
- o EMS Must be implemented to support and work with the mission and value added practices.



EMS DoD Instruction/Policy

- DoD developed an EMS DoD Instruction/Policy with the assistance of EMS Component representatives.
- The EMS DoDI was signed for publication by Mr. John Young (AT&L) on 17 March 2009.
- The EMS DoDI 4715.17 is located on the WHS Directives website
(<http://www.dtic.mil/whs/directives/corres/ins1.html>)



EMS DoD Instruction Highlights

- EMS is everyone's responsibility – goes beyond Environmental Functional Area
- EMS Conformance will be formally re-declared every three years (requires External (2nd Party) Audit)
- Clarifies OSD and Component Responsibilities
- Requires Internal EMS Audits
- Energy and Transportation aspect consideration in EMS
- Maximize Use of Cross-Functional Teams
- Definitions including Appropriate Facility/Organization, Audits, Qualified parties
- Institutionalizes DoD EMS Work Group

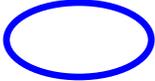
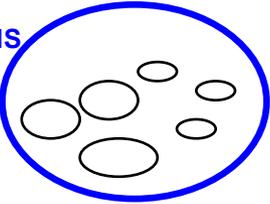
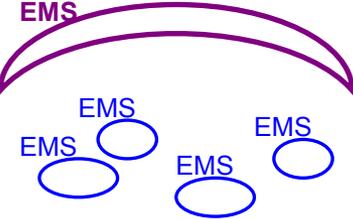


Path Forward

- Achieve Full Conformance and Implementation
- Integrate the goals of EO 13423 into EMS
- Improve EMS Awareness Outside of Environmental Functional Area
- Updated DoD Compliance Management Plan to reflect EO requirements.



Organizational EMS

Type of EMS	Description	Other Terms Used	Issues/Implications
<p>“Facility EMS”</p> <p>EMS</p> 	<p>This is the traditional facility-level or site-level EMS. The scope is typically defined by a single organization, with its activities defined by a discrete “fence-line.”</p>	<p>“appropriate facility” “site EMS” “single-site organization EMS”</p>	<p>This could be a „headquarters facility” EMS, if the emphasis is on the facility operations, as opposed to the headquarters programmatic functions.</p>
<p>“Multi-Site Organization EMS”</p> <p>EMS</p> 	<p>The scope of this EMS is a broader organization, which encompasses multiple facilities or operating units (or organizations). [They need not each constitute an “appropriate facility.”] The key attribute is that the significant environmental aspects of the activities, products and services of all the units are managed as part of a single EMS.</p>	<p>“enterprise EMS” “corporate EMS” “agency-wide EMS” “multi-site EMS” “program EMS”</p>	<p>Functionally, the EMS still has to reach down to workers at all the units and activities encompassed by the organization. Audit of the EMS includes an audit at an appropriate sampling of sub-units.</p>
<p>“Higher-Tier EMS”</p> <p>EMS</p> 	<p>Here, individual facilities (or organizations) maintain their own EMSs. However, an additional EMS is created to address issues which are best addressed at a higher level of the organization.</p>	<p>“umbrella EMS” “corporate EMS” “agency-wide EMS” “headquarters EMS” “program EMS”</p>	<p>The scope of the „top tier” EMS is those issues best addressed at the higher level of the organization; it does not encompass all „facility-level” issues. The scope and the interfaces (roles and responsibilities) between the levels need to be defined consistently from both levels. Each EMS needs to be audited.12</p>



EMS Metrics

- Scorecard Metrics
 - o Move from implementation to operation
 - o More focus on audits, management reviews, sustainability integration
- Sustainability Questions
- Benefits, Successes, Best Practices, Lessons Learned
- Metrics developed by Federal WG
 - o Used for Annual EMS report
 - o OMB Scorecard
- DoD Specific Requirement for Appropriate Facility/Organization Update to Remain



Future EMS Scorecard Metrics

- EMS metrics include (FY2009 through FY2011):
 - o Environmental Aspects
 - o Sustainable Practices
 - o Goals, Objectives, Targets and Programs
 - o Environmental Training
 - o Operational Controls
 - o Contracts and Concessionaire Agreements
 - o Evaluation of Compliance with Regulatory Requirements
 - o Management Reviews
- Sustainable Practices metric incorporated to determine whether programs have been established and implemented addressing ‘sustainable aspects’ of EO 13423
- FY2009 and beyond metrics provided at the end of FY2008 data call
 - o **FYI and Preparation Purposes ... Reporting with New Metrics begins FY09**



Contact Information

DoD EMS POC: Lt Col Bart Barnhart, Deputy Under Secretary of Defense (Installations and Environment)

E-mail: barton.barnhart@osd.mil

Phone Number: 703.604.1831



Questions





Department-Level Rating

A Sliding Scale – More Stringent Each Year

2006

G	At Least 70% of Facilities are Green No More than 5% of Facilities are Red
Y	No More than 20% of Facilities are Red
R	Neither Green nor Yellow

2007

G	At Least 75% of Facilities are Green No More than 5% of Facilities are Red
Y	No More than 15% of Facilities are Red
R	Neither Green nor Yellow

2008

G	At Least 80% of Facilities are Green No More than 5% of Facilities are Red
Y	No More than 10% of Facilities are Red
R	Neither Green nor Yellow



Facility-Level Rating

Constant From 2006-2008

For Green, a Facility Needs:

At Least 5 D's
No More than 1 B
No A's at all

←OR→

At Least 4 D's
No B's at all
No A's at all

For Yellow, a Facility Needs:

At Least 4 C's (or D's)
No More than 1 A

For Red, a Facility is:

Neither Green nor Yellow



Understanding the Color Rating

- **Green: All elements of the EMS are in place and working**
- **Yellow: Most elements are in place, but one or two areas need focused attention**
- **Red: Two or more elements are not functioning or may not be present**