DoD ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) METRICS FISCAL YEARS 2009 – 2011

These metrics are identical to the Federal EMS Metrics and provide the mechanism by which DoD agencies, organizations and facilities will report FY09-11 EMS implementation progress, performance and success on an annual basis. DoD will use these metrics through FY11, and reserves the right to amend as appropriate to reflect new information.

Data gathered through the annual metrics report is used for multiple purposes to include the Office of Management and Budget (OMB) Environmental Stewardship Scorecard, the Environmental Management Review (EMR), and the Defense Environmental Programs Annual Report to Congress (DEPARC).

Annual metrics shall be due by the DEPARC/EMR data call due date or 15 December, whichever is earlier.

Semi-Annual metrics shall be due:

- 1. by the DEPARC/EMR data call due date or 15 December, whichever is earlier
- 2. by the mid-year EMR due date or 15 June, whichever is earlier

Specific details, reporting instructions, and data templates will be provided by ODUSD (I&E) through the DoD EMS Work Group.

Metrics are divided into the following categories:

I. FACILITY/ORGANIZATION-LEVEL INFORMATION
II. EMS EXTERNAL AUDIT AND DECLARATION OF CONFORMANCE
III. EMS PERFORMANCE METRICS FOR EMS SCORECARD
IV. EMS IMPLEMENTATION INFORMATION
V. EMS EXPERIENCES

Metrics in category I, II, III, and IV shall be reported by individual EMS. Metric category V can be reported individually or as a Component roll-up.

Part I: Facility/Organization-level Information

Please provide the following facility/organizational background information.

Agency/Department:	Identify the facility/organization's Department or Agency
Sub-Agency:	Identify the sub-agency, department, bureau, office, service or command
Facility Name:	Identify the facility/organization's name as identified for EMS reporting
Description:	Describe the scope of the EMS
Inception Date:	Indicate either: On or before January 24, 2007 -or- After January 24, 2007. This is the date the facility/organization was first identified as appropriate for EMS implementation and committed to implement an EMS and indicates whether the EMS was established before or after the E.O. was signed.
Full Implementation Date:	Indicate the implementation date for this EMS. For pre Jan 24, 2007 EMS's, the default date is Dec 31, 2008 (although agencies may negotiate this date with OFEE). For post Jan 24, 2007 EMS's enter the date negotiated with OFEE. If date is not yet negotiated, enter 01/01/2050 to indicate pending negotiation. Note: EMSs that have not reached their implementation date during the reporting year will not be included in the agency EMS scorecard.
Point of Contact:	Provide the name of the primary person responsible for implementing the EMS
POC E-mail:	Provide the E-mail address for the primary POC above
Performance Track Recognition:	Indicate YES or NO if the EMS is recognized under EPA's Performance Track program
Other Recognition:	If the EMS is recognized under another local, state or private recognition program, identify the program and provide a brief description of the recognition
ISO 14001 Registration:	Indicate YES or NO if the EMS is formally ISO14001 registered
Comments:	Provide any other relevant comments regarding this EMS

Part II: EMS External Audit and Declaration of Conformance

Background: The Council on Environmental Quality (CEQ) Implementing Instructions for EO 13423 state that for purpose of determining conformance to the EMS requirements of EO 13423, an EMS shall be considered <u>fully implemented and in conformance</u> when:

- (1) The EMS has been the subject of a formal audit by a qualified party outside the control or scope of the EMS, AND
- (2) The audit findings have been recognized by the appropriate level of the agency (facility/organization) implementing the EMS, AND
- (3) The appropriate senior manager accountable for implementation of the EMS has declared conformance to the EMS requirements of EO 13423.

The Federal Environmental Executive issued clarification of these requirements in a document dated January 15, 2008, available at: http://www.fedcenter.gov/Documents/index.cfm?id=8864.

<u>Note</u>: EMS declarations made under EO 13148 are not valid for the purposes of declaration under EO 13423.

Once conformance of the EMS has been declared, the EMS shall then be audited at least every three years from the date of the initial declaration. An EMS audit may be considered completed "within three years" if the audit was scheduled within the three year deadline and was ultimately completed, but encountered unanticipated delays of up to three months. Based on this requirement, in reporting year 2010, these metrics will make available a response for EMSs that had an initial audit date of 2007.

Part III: EMS Performance Metrics for EMS Scorecard

Responses to these questions are scored as part of the agency EMS scorecard process.

1. Environmental Aspects

In the applicable FY (2009, 2010, or 2011), within the scope of a facility's/organization's EMS:

- A. **Environmental aspects have not been identified** for all of the facility's/organization's activities, products, and services (including transportation and energy related activities).
- B. **Environmental aspects have been identified** for all of the facility's/organization's activities, products, and services (including transportation and energy related activities) but **without using an established procedure**.

OR

Using an established procedure, **environmental aspects have been identified** for all of the facility's/organization's activities, products, and services (including transportation and energy related activities). However, *significant* **aspects were not identified**.

- C. Using an established procedure, environmental aspects have been identified for all of the facility's/organization's activities, products, and services (including transportation and energy related activities) AND significant environmental aspects for those activities, products, and services have been identified. However, previously identified environmental aspects were not reevaluated OR were not reevaluated using an established procedure.
- D. Using an established procedure, both previously and newly identified **environmental aspects and** *significant* **environmental aspects were evaluated and updated** for all of the facility's/organization's activities, products, and services (including transportation and energy related activities).

2. Sustainable Practices

Note 1: EO 13423 requires that EMSs address environmental aspects of agency transportation and energy related activities. Section 2 of the EO directs Federal agencies to implement sustainable practices for:

- (a) Improvement in energy efficiency and reduction in greenhouse gas emissions,
- (b) Use of renewable energy,
- (c) Reduction in water consumption,
- (d) Sustainable acquisition,
- (e) Reduction of the use and disposal of toxic and hazardous chemicals and materials,
- (f) Pollution and waste prevention/diversion and recycling programs,
- (g) High performance and sustainable buildings,
- (h) Vehicle fleet management, and
- (i) Electronics stewardship.

If a particular sustainable practice is determined to be not currently applicable to the reporting EMS, that determination should be documented and available to the parent agency. That sustainable practice can then be excluded from evaluation for this reporting period.

Examples of "not applicable" include a determination that a particular sustainable practice relates to environmental activities (a) that are not present at the facility/organization or (b) that are outside the control of the organization/facility during the reporting period (e.g., high performance building or renewable energy use in a leased facility). Note: If an organization/facility has the potential to influence the responsible organization with regard to sustainable practices, (e.g., in a lessee tenant relationship), that organization/facility shall attempt to influence the other organization to implement sustainable practices, e.g., through a letter or meeting, before it concludes the practice is "not applicable."

Note 2: If an agency has established agency-level requirements/programs to address the sustainable practices as required by EO 13423, the facility/organization may adopt the Agency-level requirements/procedures to demonstrate conformance provided that the facility/organization has implemented those requirements/programs.

In the applicable FY (2009, 2010, or 2011):

- A. The facility/organization has **not established programs** through its EMS to address applicable sustainable practices as required by EO 13423.
- B. The facility/organization has **established some programs** through its EMS to address applicable sustainable practices as required by EO 13423.

AND

The facility/organization has **implemented at least one** of the applicable sustainable practices through its EMS.

AND

The facility/organization has **established an implementation schedule** to implement the remainder of the applicable sustainable practices through its EMS.

- C. The facility/organization has **established and implemented programs** to address all applicable sustainable practices as required by EO 13423 through its EMS.
- D. The facility/organization has **established and implemented programs** to address all applicable sustainable practices as required by EO 13423 through its EMS.

 AND

The facility/organization has **reviewed performance** of the EMS towards the objectives of the EO sustainable practices through their EMS monitoring and management review processes.

3. Objectives, Targets, and Programs

- A. Measurable environmental objectives, targets, and programs were not established and documented OR previously established and documented objectives, targets, and programs were not reviewed and updated as appropriate.
- B. Measurable environmental **objectives**, **targets**, **and programs were established** and documented OR **previously established and documented objectives**, **targets**, **and programs were reviewed and updated AND less than 50% of the established targets were on schedule** to be met.
- C. Measurable environmental **objectives**, **targets**, **and programs were established** and documented OR **previously established and documented objectives**, **targets**, **and programs were reviewed and updated AND 50-79% of the established targets were on schedule** to be met.
- D. Measurable environmental objectives, targets, and programs were established and documented OR previously established and documented objectives, targets, and programs were reviewed and updated AND 80% or greater of established targets were on schedule to be met.

4. Environmental Training

Note: These metrics pertain to competence training for those whose tasks and/or activities have the potential to affect significant environmental aspects.

- A. **Training requirements** to ensure individual competence and responsibility **were not identified or updated.**
- B. Training requirements to ensure individual competence and responsibility were identified or updated but training was not available or was not carried out.
- C. **Training requirements** to ensure individual competence and responsibility **were identified or updated** and **training was available, carried out and documented** during this reporting period.
- D. **Procedures** to ensure that training requirements for individual competence and responsibility **were established**; **training requirements** to ensure individual competence and responsibility **were identified or updated**; training (including refresher training) was **available and carried out and documented**; and training requirements for competence were **monitored and revised**.

5. Operational Controls

- A. Documented **operational controls** to address activities associated with significant aspects and consistent with objectives and targets **were not established or updated.**
- B. Documented **operational controls** to address activities associated with significant aspects and consistent with objectives and targets **were established or updated** and **are partially implemented**.
- C. Documented operational controls to address activities associated with significant aspects and consistent with objectives and targets were established or updated and are fully implemented.
- D. Documented **operational controls** to address activities associated with significant aspects and consistent with objectives and targets **were established or updated** and **are fully implemented**, AND previously documented **operational controls were formally reviewed and/or updated** (i.e., supplemented, revised, deleted) as appropriate to ensure their ongoing effectiveness.

6. Contracts and Concessionaire Agreements

Note 1: The Instructions to EO 13423 establishes "where contractor and concessionaire activities affect an agency's environmental, transportation, or energy issues, those activities shall be addressed in the development, implementation, and maintenance of the EMS. Requirements shall be included in all appropriate contracts to ensure that the contractors' roles and responsibilities under the EMS are properly addressed" (Instructions for Implementing EO 13423, Section II B (2).

Note 2: An "appropriate contract" is one whose actions may have potential impact on the significant environmental aspects identified by the reporting EMS and entered into, revised, amended or otherwise modified after the date of EO 13423.

Note 3: Appropriate contracts include legal arrangements with concessionaires.

Note 4: A documented determination of no appropriate contracts may be marked as a "D" provided that the procedure requires an annual review and a review of new contracts.

Note 5: Facilities/organizations are not precluded from modifying a contract existing prior to the date of EO 13423 to include EMS considerations.

- A. During this reporting period or previously, the facility/organization **did not establish a procedure** to identify appropriate contracts or identify appropriate contracts in which to include EMS requirements.
- B. During this reporting period or previously, the facility/organization **established a procedure** to identify appropriate contracts; **identified appropriate contracts** and the contractors' roles and responsibilities under the EMS; and **established a schedule** to modify appropriate contracts.
 - However, the facility/organization **did not modify appropriate contracts** to include EMS requirements and defined roles and responsibilities.
- C. During this reporting period or previously, the facility/organization established a procedure to identify appropriate contracts; identified appropriate contracts and the contractors' roles and responsibilities under the EMS; established a schedule to modify appropriate contracts; and was in the process of modifying contracts to include EMS requirements and defined roles and responsibilities in appropriate contracts.
 - However, the facility/organization did **not complete modifications** to appropriate contracts or did **not review** whether contractors fulfilled defined roles and responsibilities.
- D. The facility/organization **established a procedure** to identify appropriate contracts; **identified appropriate contracts** and the contractors' roles and responsibilities under the EMS; and **EMS requirements and defined roles and responsibilities were included** in all appropriate contracts. The facility/organization **reviewed the contractor activities** and **determined the status of contractors' fulfillment** of their defined roles and responsibilities during this reporting period.

7. Evaluation of Compliance with Regulatory Requirements

Note: EO 13423 requires that each agency establish programs for environmental compliance review and audit. Furthermore, the Instructions for Implementing EO 13423 establish that the EMS shall be used to support compliance with environmental regulations.

In the applicable FY (2009, 2010, or 2011):

- A. During this reporting period or previously, the facility/organization **did not establish** as part of the facility/organization's EMS, **a program for an environmental compliance** review and audit.
- B. During this reporting period or previously, the facility/organization **established** as part of the facility/organization's EMS, **a program for an environmental compliance** review and audit that includes:
 - (a) Procedures to identify and account for applicable legal and other requirements,
 - (b) Protocols to periodically evaluate compliance with those applicable legal and other requirements, including the frequency of compliance evaluations, and
 - (c) A process or system for implementing corrective action based on that evaluation. AND

The facility/organization has identified applicable legal and other requirements.

However, the facility/organization has not implemented the protocols to evaluate compliance, or the process or system to implement corrective action based on compliance evaluations.

- C. During this reporting period or previously, facility/organization **established** as part of the facility/organization's EMS **an environmental compliance program** that includes:
 - (a) Procedures to identify and account for applicable legal and other requirements,
 - (b) Protocols to periodically evaluate compliance with those applicable legal and other requirements, including the frequency of compliance evaluations, and
 - (c) A process or system for implementing corrective actions based on that evaluation.

AND

The facility/organization has **identified applicable legal and other requirements**. AND

The facility/organization has **conducted evaluations of compliance** with applicable legal and other requirements.

However, the facility/organization has not completed the compliance evaluation for the entire facility/organization in accordance with the program established frequency, or has not initiated corrective actions for completed evaluations.

- D. During this reporting period or previously, the facility/organization **established** as part of the facility/organization's EMS **an environmental compliance program** that includes:
 - (a) Procedures to identify and account for applicable legal and other requirements,
 - (b) Protocols to periodically evaluate compliance with those applicable legal and other requirements, including the frequency of compliance evaluations, and
 - (c) A process or system for implementing corrective actions based on that evaluation.

AND

The facility/organization has **identified applicable legal and other requirements**. AND

The facility/organization has **completed evaluations of compliance** with applicable legal and other requirements for the entire facility/organization, in accordance with the established frequency.

AND

Corrective actions have been initiated, scheduled or completed.

8. Management Review

The Instructions for Implementing Executive Order 13423 require that "Once implemented, an EMS shall be reviewed and updated annually or more frequently, as appropriate, by senior leadership accountable for implementation of that EMS." [§ II.A.(2), page 7]

The purpose of this review (according to ISO 14001:2004) is to ensure the continuing suitability, adequacy and effectiveness of the EMS by presenting the appropriate information to senior management with authority over policy and resources for their **consideration and action**. The attention given to the management review process is a direct reflection of the commitment of the facility/organization to continual improvement. The review should include "assessing opportunities for improvement and the need for changes to the environmental management system, including the environmental policy and environmental objectives and targets."

The review should be documented (for example: agenda, presentations, action items and actions taken).

- A. Formal senior leadership review of the EMS was neither planned/scheduled nor conducted.
- B. Formal senior leadership review of the EMS was planned/scheduled, but was not conducted.
- C. Formal senior leadership review of the EMS **was conducted**. However, recommendations for continual improvement were neither **addressed** nor proposed by top management.
- D. Formal senior leadership review of the EMS was conducted, top management responded to recommendations or gave directions for continual improvement, and appropriate actions including modifications to elements of the EMS have been initiated, scheduled or completed.

Part IV: EMS Implementation Information

E.O. 13243 states, in Section 3, Duties of Heads of Agencies,

(I)n implementing the policy set forth in section 1 of this order, the head of each agency shall: ... (b) implement within the agency environmental management systems (EMS) at all appropriate organizational levels to ensure (i) use of EMS as the primary management approach for addressing environmental aspects of internal agency operations and activities, including environmental aspects of energy and transportation functions, (ii) establishment of agency objectives and targets to ensure implementation of this order, and (iii) collection, analysis, and reporting of information to measure performance in the implementation of this order; [emphasis added].

Likewise the Instruction for Implementing Executive Order 13423, in part II (A.), **Environmental Management Systems**, *Use of Environmental Management Systems*, states,

(E)ach agency shall, at all appropriate organizational levels, including agency, subagency, bureau, service, command, and/or facility, develop, **implement**, and maintain an EMS to be used to identify and address agency environmental, transportation, and energy issues. ... The EMS objectives shall include the goals identified in Section 2 of the E.O.

The Instruction goes on to state in (1) Management framework,

(T)he management system will serve as the management framework under which agencies and their facilities or organizations identify, manage, and improve the sustainable practices identified in Section 2 of the E.O. and identify and collect performance measurement information to address the reporting requirements of Section 3(g) of the E.O. EMS also shall be used to support compliance with environmental and energy regulations, to enable the prevention of pollution and efficient energy management, and to support other objectives identified by the organization [emphasis added].

The questions in this Part reflect the relationship identified in the Executive Order and Implementing Instruction between an EMS and the various programs that already respond to, or are being developed to respond to, the sustainable practices in Section 2 of the E.O. Responses to these questions **are not** scored as part of the agency EMS scorecard process.

1. Energy Use

a.	Has an assessment of the facility's/organization's energy use been conducted?	Yes	No
b.	Is energy use identified as a 'significant aspect'?	Yes	No
c.	Have objectives and targets been established to address energy use?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been implemented to address energy use?	Yes	No
f.	Are these plans and programs included in the EMS?	Yes	No
2. Gr a.	Has an assessment of the		
a.	Has an assessment of the facility's/organization's greenhouse gas emissions been conducted?	Yes	No
b.		Yes	No
c.	Have objectives and targets been established for greenhouse gas emissions?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been implemented to address greenhouse gas emissions?	Yes	No
f.	Are these plans and programs included in the EMS?	Yes	No

3. Renewable Energy Use

a.	Has an assessment of the facility's/organization's renewable energy use been conducted?	Yes	No
b.	Is renewable energy use identified as a 'significant aspect'?	Yes	No
c.	Have objectives and targets been established for renewable energy use?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been implemented to address renewable energy use?	Yes	No
f.	Are these plans and programs included in the EMS?	Yes	No
4. W	ater Use		
a.	Has an assessment of the facility's/organization's water use been conducted?	Yes	No
b.	Is water use identified as a 'significant aspect'?	Yes	No
c.	Have objectives and targets been established for water use?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been		
	implemented to address water use?	Yes	No

5. Purchasing

6.

a.	Has an assessment of the facility's/organization's purchasing practices been conducted?	Yes	No
b.	Are environmental aspects associated with purchasing identified as 'significant aspects'?	Yes	No
c.	Have objectives and targets been established for aspects associated with purchasing practices?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been implemented to address purchasing practices?	Yes	No
f.	Are these plans and programs included in the EMS?	Yes	No
Sol	id Waste Generation		
a.	Has an assessment of the facility's/organization's sold waste generation been conducted?	Yes	No
b.	Is solid waste generation identified as a 'significant aspect'?	Yes	No
c.	Have objectives and targets been		
	established to address solid waste generation?	Yes	No
d.	generation?	Yes Yes	No No
d. e.	generation? Are these objectives and targets		

7. Purchasing and Using Toxic or Hazardous Chemicals

	a.	Has an assessment of the facility's/organization's practices for purchasing and using toxic or hazardous chemicals been conducted?		Yes		No	No purchasing use of too hazardou chemical	xic or
	b.	Is purchasing and using toxic or hazardous chemicals identified as a 'significant aspect'?		Yes		No		
	c.	Have objectives and targets been established for purchasing and using toxic or hazardous chemicals?		Yes		No		
	d.	Are these objectives and targets included in the EMS?		Yes		No		
	e.	Have plans and programs been implemented to address purchasing and using toxic or hazardous chemicals?		Yes		No		
	f.	Are these plans and programs included in the EMS?		Yes		No		
8.	Co	nstruction/Lease/Operation/Maintena	ance (of Buildir	ngs			
	a.	Has an assessment of the facility's/org practices related to construction/lease/ operation/maintenance of buildings be	,			Yes		No
	b.	Are the environmental aspects associa construction/lease/ operation/ mainten buildings identified as 'significant asp	ance o	of		Yes		No
	c.	Have objectives and targets been established aspects associated with construction/leoperation/maintenance of buildings?		d for		Yes		No
	d.	Are these objectives and targets include	led in	the EMS	? 🗖	Yes		No
	e.	Have plans and programs been implement address aspects associated with construction operation/maintenance of buildings?				Yes		No
	f.	Are these plans and programs included	d in th	e EMS?	П	Yes		No

9. Vehicle Fleet Use/Petroleum Products Use

a.	facility's/	sessment of the organization's vehicle petroleum product use ducted?	☐ Yes] No	pe	No fleet or troleum product use
	b.	Are vehicle fleet use/pe products use identified 'significant aspects'?			Yes		No
	c.	Have objectives and tar established for vehicle tuse/petroleum product u	fleet		Yes		No
	d.	Are these objectives and included in the EMS?	d targets		Yes		No
	e.	Have plans and program implemented to address fleet use/petroleum prod	vehicle		Yes		No
	f.	Are these plans and pro included in the EMS?	grams		Yes		No
10.	Purchase/U	se/Disposal of Electroni	ic Equipment	;			
a.	facility's/or	essment of the ganization's purchase/us equipment been conducte	_		Yes		□ No
b.	-	se/ use/disposal of electr identified as 'significant			Yes		□ No
c.	•	etives and targets been es se/disposal of electronic			Yes		□ No
d.	Are these of EMS?	objectives and targets inc	luded in the		Yes		□ No
e.	-	and programs been impl rchase/use/disposal of ele ?			Yes		□ No
f.	Are these p	plans and programs include	ded in the		Yes		□ No

11. Environmental Regulatory Compliance

a.	Has a compliance assessment of the facility's/organization's regulated products, activities and services been conducted?	Yes	No
b.	Is environmental regulatory compliance identified as a factor in determining 'significant aspects'?	Yes	No
c.	Have objectives and targets been established for environmental regulatory compliance?	Yes	No
d.	Are these objectives and targets included in the EMS?	Yes	No
e.	Have plans and programs been implemented to address environmental regulatory compliance?	Yes	No
f.	Are these plans and programs included in the EMS?	Yes	No

Part V: EMS Experiences

1. EMS Best Practices / Lessons Learned:

Please provide up to 3 bullet statements identifying any EMS best practices and/or lessons learned in the past year.

2. EMS Challenges:

Please provide up to 3 bullet statements identifying EMS implementation challenges in the past year.

3. External Communication:

Please provide up to 3 bullet statements identifying how your facility/organization uses the EMS to facilitate communication between your facility/organization, and your stakeholders and your neighbors.

4. Highest Priority Aspects:

Please list up to 3 of your facility/organization's highest priority significant environmental aspects. [Note: These may or may not be those identified in the Executive Order; they may include environmental aspects associated with local issues or other Agency priorities.]

5. EMS Benefits to Agency Mission:

Please provide up to 3 bullet statements identifying how EMS implementation has enabled your organization or agency to operate more effectively in accomplishing its missions. [These could include, for example, reduced number of off-normal events that disrupt agency schedules or operations; greater interoperability among sites; better relations with host communities, states, and their elected representatives; greater speed and agility in responding to unexpected events; improved ability to write performance based contracts; etc.]