DoD Solid Waste Diversion

Environment, Energy Security & Sustainability Symposium & Exhibition

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Office of Deputy Under Secretary of Defense (Installations & Environment)

May 10, 2011
# DoD Solid Waste Diversion

**Report Documentation Page**

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<table>
<thead>
<tr>
<th>1. REPORT DATE</th>
<th>10 MAY 2011</th>
</tr>
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<tbody>
<tr>
<td>2. REPORT TYPE</td>
<td></td>
</tr>
<tr>
<td>3. DATES COVERED</td>
<td>00-00-2011 to 00-00-2011</td>
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| 4. TITLE AND SUBTITLE | DoD Solid Waste Diversion |

| 5a. CONTRACT NUMBER |             |
| 5b. GRANT NUMBER |             |
| 5c. PROGRAM ELEMENT NUMBER |             |
| 5d. PROJECT NUMBER |             |
| 5e. TASK NUMBER |             |
| 5f. WORK UNIT NUMBER |             |

| 6. AUTHOR(S) |             |

| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) | Office of Deputy Under Secretary of Defense (Installations & Environment), 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 9-12 May 2011 in New Orleans, LA. |

| 14. ABSTRACT |             |

| 15. SUBJECT TERMS |             |

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<tr>
<th>16. SECURITY CLASSIFICATION OF:</th>
<th>17. LIMITATION OF ABSTRACT</th>
<th>18. NUMBER OF PAGES</th>
<th>19a. NAME OF RESPONSIBLE PERSON</th>
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<td>a. REPORT</td>
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<td>Same as Report (SAR)</td>
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<td>b. ABSTRACT</td>
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Solid Waste & Recycling Policy

I. 10 USC Section 2577
   - establishment of qualified recycling program

II. 32 CFR 172
    - process for disposal of proceeds from sales of DoD surplus personal property

III. DoD Instruction 4715.4, “Pollution Prevention,” June 18, 1996
    A. Established environmental hierarchy for managing wastes
    B. Required establishment of cost-effective waste prevention and recycling programs to reduce non-hazardous solid waste
C. Defines “Recyclable Materials” to include paper, newspaper, cardboard, plastic, metal cans, glass, used oil, batteries, and tires.

D. Defined “Excluded Materials” from recycling to include precious metals, hazardous waste, fuels, material required to be demilitarized or mutilated, scrap from demilitarization, Munitions List items, and Commerce Control items.
Solid Waste & Recycling Policy

IV. Integrated Solid Waste Management (ISWM)  
DUSD(I&E) policy memorandum dated February 1, 2008  
A. Based on data successful DoD recycling programs  
C. Establish solid waste diversion goals for 2010  
D. Defined ISWM as:  
   A comprehensive approach to managing non-hazardous solid waste that encompasses waste prevention, recycling, composting, and disposal programs.
Solid Waste & Recycling Policy

E. Re-established hierarchy for eliminating waste

1. Source reduction
2. Reuse
3. Donation
4. Recycling
5. Composting/Mulching

6. Incineration or Volume reductions with energy recovery

7. Other forms of volume reduction

8. Landfilling
Integrated Solid Waste Management (ISWM)

What does ISWM mean?

- Energy efficiency
- Effective diversion
- Market opportunities
- Economically sensible
- Waste stream analysis
- Upper management support
Solid Waste & Recycling Policy


A. Promote Pollution Prevention and eliminate waste by:
   1. Source reduction
   2. Diverting non-hazardous solid waste
   3. Diverting C&D material and debris
   4. Increase diversion of compostable and organic material from waste stream
Solid Waste & Recycling Policy

B. Other areas
   1. Reduce energy and water use
   2. Reduce greenhouse gases
   3. Increase sustainable energy
   4. Increase acquisition of sustainable goods
   5. Improve electronics stewardship

C. Develop a DoD Strategic Sustainability Performance Plan (SSPP)
I. Solid Waste Diversion Metrics Progression

A. ADUSD(ESOH) Memo dated 10/12/04
   1. Per capita generation non-hazardous solid waste
   2. Diversion rate of non-hazardous solid waste with and without construction & demolition (C&D) debris
   3. Economic benefit
   4. Goal – continuous improvement

B. 2008 DoD Integrated Solid Waste Management Policy – established 2010 diversion goals
   1. 40% for non-hazardous solid waste
   2. 50% for C&D debris
C. Annual Reporting in DoD SSPP (per EO 13514) - diversion goals for 2015
   1. 50% non-hazardous solid waste and
   2. 60% for C&D debris

D. Other Reporting Requirements
   1. OSD Environmental Management Reviews – metrics and other hot issues
   2. Annual Report to Congress on Defense Environmental Programs
   3. RCRA 6002 biennial report to Congress – Federal agency compliance with recycled content and bio-based procurement requirements
DoD Solid Waste Generated (K Tons)

<table>
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<th>Year</th>
<th>SW (w/o C&amp;D)</th>
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DoD Solid Waste Diversion Rate (%)
Issues/Challenges

Eligibility

Increasing Diversion

Financial concerns

Educational/training
Future Direction

I. Implement DoD’s SSPP
   A. Build stronger requirements for recycling and composting
   B. Report increased diversion rates

II. Develop new DoD Instruction
   A. Consolidate various policies
   B. Compliance with Federal, State, and local recycling requirements
   C. Require ISWM approach with involvement of base commander and facilities manager
Future Direction

III. Improve qualified recycling program management accountability
   A. Training program and opportunities
   B. Inspection and audits
   C. Development of Solid Waste Diversion list

IV. Develop guidance on sale of small arms ammunition per Section 346 of the FY11 National Defense Authorization Act
Questions?

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