

DeCA's Effective Waste Management Plan



Federal Environmental Symposium West

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RS&H
IMPROVING YOUR WORLD



Presentation Organization

- Overview of DeCA's environmental footprint and why waste management is a key environmental initiative for the Agency.
- Characteristics of our waste stream and objectives and targets developed to address it.
- Individual components of the effective waste management plan and results of our first 16 months of operation.
- Overview of the environmental outreach programs undertaken with our patrons.





DeCA's Global Network

- **Worldwide chain of 259 commissaries and facilities in 13 countries**
- **Approximately 18,000 associates**
- **Delivered \$5.5 billion in groceries to military families in FY 2007**
- **Eligible customer base of 11.8 million patrons**





DeCA's Environmental Policy

- “...DeCA is committed to the prevention of pollution through source reduction, material reuse, recycling, and natural resource conservation programs...”





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Environmental Footprint of a Commissary

- **Solid Waste (General Trash)**
 - Packaging materials and office waste
 - Organic waste = produce
- **Energy Consumption**
- **Ozone Depleting Substances**
- **Water Consumption**
- **Pesticides/Rodenticides**
- **Electronics (operations)**
- **Toxic Materials (operations)**





DeCA's Significant Environmental Aspects

- Solid Waste Management
- Energy and Water Conservation
- Affirmative Procurement
- Pesticides/Rodenticides
- Sustainable Design
- Toxic Materials Management
- Refrigerant Management
- Electronic Stewardship





DeCA EMS Core Team

Waste Management - DeCA's EMS Trail Blazer

- 60,000 tons recycled from FY 2007 through January 2008
- \$5.7 million in recycling revenue
- Greenhouse gas emission reductions of 57,000 tons (MTCE)
 - Comparable to removing 45,000 cars for 1 year





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Waste Stream Characteristics



50% recyclable cardboard



24% recyclable plastic



10% organic waste



16% landfill





Waste Management Opportunity

- Establish a “sustainable culture”
- Divert recyclables
- Tailor waste infrastructure
- Hundreds of contract vehicles
- Maximize recyclable returns
- Streamline data reporting
- Communicate waste management success





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Waste Management Plan Objective

Reduce the amount of solid waste going to the landfill by increasing recycling rates





Waste Management Targets

Fiscal Year	Trained Facilities	Cardboard Recycled (Tons)	Recycling Revenue (\$ million)	Solid Waste Avoidance (\$ million)
2007	22	34,300	\$ 2.4	\$ 0.2
2008	54	39,600	\$ 2.8	\$ 0.5
2009	118	43,100	\$ 3.0	\$ 1.1
2010	183	49,900	\$ 3.4	\$ 1.8
2011	183	56,600	\$ 4.0	\$ 1.8
Total	183	223,500	\$ 15.6	\$ 5.4





Strategy

- **Driven by senior management support**
- **Increase awareness, train associates**
- **Increase recycling rates, reconfigure waste infrastructure**
- **Establish/enhance contract vehicles**
- **Continually expand and improve process**
- **Communicate overall performance**





Waste Management at DeCA a Team Effort





Senior Management Support

- Environmental policy
- Quantify resource needs, schedule, and returns
- Concept verification required
 - 10% of CONUS facilities
 - Increase recycling rates; match infrastructure with generation rates
- Implement plan in accordance with management team guidance
- Plan approved and executed in 2007





Associate Awareness and Training

- **Associates – engines of success**
- **Waste management training addresses:**
 - **Why it's a management priority**
 - **Inefficiencies and impacts of current practices**
 - **How to reduce waste and increase recycling**
 - **Cardboard emphasized, plastic and organics addressed**
 - **Select associates learn to measure and report**
- **Reinforced by measuring and monitoring performance**





Increase Recycling & Reconfigure Waste Infrastructure

- 8-week “acclimation” period
 - Weekly communications and coaching
- Monitor waste & recycling rates
- Measure “new” disposal rates; adjust waste infrastructure
 - Dumpster/compactor size and pickup frequency and content





Establish/Enhance Contract Vehicles

- **Renegotiate with solid waste providers**
 - Reduce receptacle quantity, volume, and/or pickup frequency
- **Enhance recycling contract vehicles**
- **Negotiate preferred rates for quality of recyclables**
 - Average \$90.35 per ton in FY 2007





Continually Improve Process

- Expand recycling to plastics where economically feasible
 - Sandwich bales contracted in two locations
- Composting of organic wastes is dependent upon installation initiatives
 - Pilot program under consideration
- Web based reporting
 - Pilot program in FY 2008





Communicate Overall Performance

- **Internal Communication**
 - Monthly – individual facility performance monitored and reported
 - Annually – metrics presented to senior management
- **External Communication**
 - Present and publish process and results
 - Incorporate results into customer environmental outreach materials





Performance from FY'07 through January 2008

Fiscal Year	Cardboard Recycled (tons)	Recycling Revenue (millions)	Solid Waste Avoidance (millions)
2007			
Actual	38,442	\$ 3.5	\$0.05
Goal	34,300	\$ 2.4	\$0.03
Variance	4,142	\$ 1.1	\$0.02
2008*	* = through January 2008		
Actual	21,286	\$ 2.2	\$0.07
Goal	13,200	\$ 0.7	\$0.06
Variance	8,086	\$ 1.5	\$0.01





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DeCA EMS Core Team

DeCA Outreach GHG Reduction & Energy Efficiency

- SmartWaySM Transport Partners
 - Coca-Cola, Frito Lay, Kraft Foods, Menlo World Wide, Sea Star Lines, Trailer Bridge, UPS.....



- CFL Challenge

- Sell 1,000,000 CFL bulbs in 2008
- Can save customers up to 75% in energy use





DeCA Outreach Waste Reduction & Organic Products

- Reusable green bags
 - Reduce plastic bag waste
 - Increase customer awareness
 - More than 1 million sold since October 2007

- Organics = healthy growth
 - 56% annual growth in sales
 - Meets demand of healthy-minded patrons





Environmentally Friendly Merchandising and Earth Day

- **Green clean, recycled, and biodegradable products**
 - Approximately 20% increase in products offered
 - Includes cleaners, softeners, tissues, wipes, etc.
- **Earth Day Promotion**
 - CFL bulbs, organics, recycled products, and eco-friendly packaging





DeCA

Energy and Water Conservation

- **\$26 million in energy savings over the last 5 years**
- **Water Conservation Program**
 - **Water management plans in place for 139 facilities**
 - **Best management practices fully implemented at 76 facilities at end of FY 2007**





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Questions?

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