Defense Logistics Agency
Green Products/
Hazardous Minimization
Warfighter Team

Helping the Warfighter Become Green!

James L. Reed
DLA is DoD’s combat logistics support agency. Our mission is to provide best value integrated logistics solutions to America’s Armed forces and other designated customer’s in peace and in war, around the clock, around the world.
DLA’s Scope of Support

President of the United States

Office of the Secretary of Defense

Combatant Commanders

Military Services

DLA
Scope of DLA Customer Support

- A $36.8 Billion global enterprise
- Supports over 1,500 weapon systems
- Provides 95 percent of all Military Services’ repair parts
- Manages 3.8 Million national stock numbers (8 Supply Chains)
- Foreign Military Sales
  - Projected Sales Fiscal Year 2009: $1.53 Billion
  - Shipments: 570,000 per year
  - Supporting 115 Nations
- Provides 100 percent of:
  - Fuels
  - Clothing and Medical Supplies
  - Food
  - Construction Material
- Worldwide Presence:
  - More than 25,000 civilian, active duty, and reserve employees
  - 28 countries and 48 states (except Vermont and Iowa)
• Consist of Representatives of DLA Headquarters
• and each of the Primary Field Level Field Activities
Global Supply Chains

- **CLI: Subsistence (DSCP)**
  - Food Service
  - Produce
  - Operational Rations
- **CLII: Clothing & Textile (DSCP)**
  - Recruit Clothing
  - Organizational Clothing & Individual Equipment
- **CLIII: Fuel/Energy (DESC)**
  - DoD Executive Agent for all Bulk Petroleum
  - Natural Gas, Coal, Electricity
  - Aerospace Energy
- **CLIV/VII: Construction & Equipment (DSCP)**
  - Facilities Maintenance
  - Equipment
  - Wood Products
  - Safety & Rescue Equipment
- **CLVIII: Medical (DSCP)**
  - Pharmaceutical
  - Medical/Surgical Equipment
- **CLIX: Aviation (DSCR)**
  - Engine Components
  - Air Frames
  - Flight Safety Equipment
  - Maps
  - Environmental Products
- **CLIX: Maritime (DSCC)**
  - Parts for Ships, Submarines
- **CLIX: Land (DSCC)**
  - Vehicles, USMC – Army Equipment

**KEY:**
DSCP - Defense Supply Center Philadelphia; DSCR – DSC Richmond; DSCC – DSC Columbus; DESC – Defense Energy Support Center
DLA Offers Services that are Environmentally-oriented

- Energy support
- “Buying Green” course
- Green shopping on DOD EMALL
- Hazardous Material Information Resource System
- Hazardous Technical Information Service
- DRMS – including electronics remanufacturing
- Ozone Depleting Substances Reserve
Buying Green – a Multifunctional Approach to Pollution Prevention

This 2-day workshop offered by the DLA Training Center (DTC) provides an overview of the Federal pollution prevention initiatives and how they relate to the DoD acquisition process. **Highlights** include:

- P2 Laws/Executive Orders/Regulations
- Green Procurement Program
- Environmentally Preferred Products
- Life-cycle Costing
- Acquisition Planning
- FAR requirements

- **Course Number & info:** (DCPSO00R750)
- **POCs:** Workshop Mgr - D850-6166, Comm 614-692-6166
Green Product Highlights

- Re-refined Lubricating Oil
- Reclaimed Engine Coolant
- Remanufactured Toner Cartridges
- Vehicular Wet Battery Program
- Energy Efficient Lighting
- Biobased Fuels
- Biobased Cutlery
DOD EMALL
DOD’s Online Shopping Tool

- Web self-service capability for the DOD
- Sells both finished goods and services
- Supports contracts written by DLA, GSA, Services, Federal agencies
- Offers over 35M items from government stock, long term contracts and 1700 catalogs
- Currently adding about 20 vendors a month and over 750K items of content a month
- FY08 Total Sales $835M; Green Sales $7.3M
DOD EMALL
DOD’s Online Shopping Tool

<table>
<thead>
<tr>
<th>Product Categories With the Most Frequent Matches</th>
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<tbody>
<tr>
<td>CARTRIDGE, TONER</td>
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<tr>
<td>THERMAL IMAGING SYSTEM</td>
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<tr>
<td>DEVELOPED, INDIRECT ELECTROSTATIC PROCESS</td>
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<th>Products Found (100/198):</th>
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<table>
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<td>View Similar Items</td>
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DLA’s Environmental Attribute Initiative

• Environmental Attribute Codes (ENAC) for NSN items in the Federal Logistics Information System, also known as the Federal Catalog System.
• Signifies that a product meets strict, definable environmental standards and criteria from an approved certifying organization.
• Currently applied to roughly 8000 items managed by DLA and GSA.
Environmental Attributes, continued

• DLA formed and chairs a **Joint Group on Environmental Attributes (JGEnvAtt)** to seek out and evaluate clearly definable environmental product criteria or ‘attributes’ from recognized environmental organizations

• JGEnvAtt process: Identify, evaluate and through a consensus building process, approve Environmental Attributes or criteria to be applied to products in the FCS.

• **Voting Members:** Army, Air Force, DLA, Navy, Marine Corps, GSA

• **Advisors:** OSD, EPA, USDA, DOE, OFEE
Environmental Attributes approved by the JGEnvAtt

- Recycled Content
- Energy Efficient
- Water Conserving
- Low VOC Content
- Low Standby Power
- Asbestos Alternative

- Biobased
- Non-mercury Alternative
- Electronic Products Environmental Assessment Tool (EPEAT)
- Non-cadmium Alternative
Primary Level Field Activities
Defense Supply Center Richmond

INITIATIVES
LEAN / Six Sigma
Depot Level Reparables
Supply, Storage & Distrib.
Customer Targeted Outcomes
Gases / Cylinders Privatization
Chemicals / POL Privatization
Forward Presence
One Pass Pricing

AVIATION:
- Engine Components
- Air Frames
- Flight Safety Equipment
- Aviation Lighting
- Fasteners
- Bearings
- Maps
- Environmental Products
Hazardous Material Information Resource System (HMIRS)

- DoD central repository for Material Safety Data Sheets (MSDS); including foreign language MSDS
- Assists Federal Government personnel who handle, store, transport, use, or dispose of hazardous materials – EPA, OSHA, DOT
- Includes value-added info by Service-agency focal points: HAZCOM warning label & transportation info
Hazardous Material Information Resource System (HMIRS)

- Available on the web, in CD/DVD sets or as direct system-to-system interface (e.g., Federal Catalog System for supply items)
- Over 400,000 MSDSs and 4,800 users.
- Hazard Communication warning labels are based on the OSHA standard
- HMIRS CDs containing nonproprietary MSDS data have been updated to look and feel like the web.
HMIRS Contact info

- **Program Manager**: Defense Logistics Information Service (DLIS), DSN 661-4996. Focal point for Help Desk support: Customer Service Office, DSN 661-4725 or commercial 1-888-DLA-CALL (352-2255)

- **Functional Manager**: Defense Supply Center Richmond (DSCR), DSN 695-3518. Provides Hazardous Information Help Desk support: 1-800-848-4371


- also email: HMIRS@dlis.dla.mil
An advice service for managing hazardous materials or wastes:

- Environmental
- Safety & Health
- Transportation
- Packaging
- Logistics

Bulletin

- Bimonthly, with over 8,000 Recipients

Regulatory Alerts – weekly

Help Line: 800-848-HTIS

Staffed with chemists, chemical engineers, industrial hygienists, environmental specialists
Only Source for Weapon Systems Support

- Halons 1211 and 1301
- Refrigerants R-11, R-12
- R-114, R-500, and R-502

War Stoppers

The DoD Ozone Depleting Substances Reserve at DSCR
ODS Reserve Program Guidance

- Halon and Refrigerant Recycling Program Supporting Major Weapons Systems


- Turn-ins Mandatory – Local Disposal or Sale Prohibited

- Outside of U.S. -- Individual Country Laws and Regulations Continue to Evolve

Contacts: Phone: 804-279-5203 / 5202, DSN695; OR email: odsreserve@dscr.dla.mil
Re-refined Lubricating Oil

• Basic Re-refined Oil Program
  – API certified oil in your choice of 5W-30, 10W-30, 15W-40, 30 & 40
  – No minimum orders.
  – Packaged in Quarts, 5 Gallon Containers, and 55 Gallon Drums.
  – World-wide delivery from Vendor to Customers

• Closed Loop Re-refined Oil Program
  – API certified oil in your choice of 30, 40, 10W-30 and 15W-40
  – Small minimum orders.
  – Includes pick up of your used oil for re-refining.
  – CONUS delivery of packaged and bulk products
  – Available in Quarts, 5 gallon containers, 55 gallon drums, bulk deliveries

POC: 804-279-4257, DSN 695
http://www.dscr.dla.mil/userweb/dscrlId/Re-refined/RR.htm
Defense Supply Center Richmond
Reclaimed Engine Coolant  
(aka Recycled Antifreeze)

• Conforms with EPA guidelines
• May be purer since recycling process reduces chlorines from hard water
• Commercial Item Description that replaces 3 Mil Specs, specs same for virgin, recycled
• Army – use recycled only, DLA to do automatic substitution
• Other Military Services -- similar directions
• POC for product: 804-279-3995, DSN695
• POC for antifreeze recycling equipment: 804-279-3686, DSN695

Defense Supply Center Richmond
Distribution & Retrograde Capabilities

- Defense Distribution Center
  - Receive, Store, and Issue
  - Deployable Distribution Center
  - Distribution Standard System
  - Defense Transportation Coordinator Initiative
  - Customized Kitting
  - In-transit Visibility
  - Dedicated Delivery / Pure Pallets

- Defense Reutilization & Marketing Service
  - Reutilization, Transfer, Donation, Demilitarization, Precious Metals Recovery
  - Reverse Logistics
  - Redeployment Retrograde Management
  - Environmental Disposal
  - Foreign Military Sales
  - Mobile Demilitarization / Shredding

25 Distribution Centers Worldwide

124 Sites Worldwide
Reuse and Recycling Programs – providing maximum reutilization of DOD excess property

- **Scrap Recycling** - providing a recycling service with reimbursement going back to DOD Qualified Recycling Programs
- **Donation in Lieu of Disposal** - diverting property from landfill with no cost or reimbursement to Government (other than occasional shipping costs). Examples: low value recyclables such as - tires, wood, furniture, and hazardous materials
- **Electronics Recycling** - Computers for Learning Program, MOA with Federal Prison Industries (FPI) Unicor, Demanufacturing contracts
- **Precious Metals Recovery** - refining of precious metals bearing material/scrap to conserve resources; no reimbursement to generator
- **Hazardous Materials Reuse** - Maximizing lifecycles, minimizing the environmental risks and the costs associated with disposal
- **Hazardous Waste** - safe and compliant disposal management, tailored and cost efficient contracts with DLA assumed liability for 3rd party contamination sites

**POC: DLA Customer Interaction Center 1-877-352-2253, options 3-2-1**
Electronics Demanufacturing

• Increased recycling and solid waste diversion

• Protection of the environment/controlled disposal of:
  – Batteries of all types in electronics
  – Mercury switches
  – Heavy Metal content
  – Keeping leaded glass from PC monitors and TVs out of landfills

• National Security:
  – Ensures property with military capability not released into commerce
  – Destruction of secure information

![Demanufacturing & FPI Recycled (million lb)](chart.png)
Primary Level Field Activities
Defense Supply Center Philadelphia

SUBSISTENCE: CLASS I
- Food Service
- Produce
- Operational Rations

CLOTHING & TEXTILE: CLASS II
- Recruit Clothing
- Readiness
- Organizational Clothing & Individual Equipment

CONSTRUCTION & EQUIPMENT: CLASS IV/ VII
- Facilities Maintenance
- Equipment
- Wood Products
- Safety & Rescue Equipment

INITIATIVES
- Prime Vendor Programs
- Medical Air Bridge (MAB)
- Common Food Management System (CFMS)
- Recruit Training Center Support
- Army Direct Ordering (ADO)
- Enterprise Buyers Forward
- Lumber Privatization

MEDICAL: CLASS VIII
- Pharmaceutical
- Medical/Surgical
  - Readiness
  - Equipment
Energy Efficient Lighting
- Compact Fluorescent Lamps (CFLs)
- Electronic Ballast
- LED Lighting

Energy Efficient HVAC
- Roof Top AC units
- Energy Saving Hot Water Heaters

Energy Saving Plumbing
- Water Conserving Fixtures

Environmentally Safe Building Materials
- Wallboards, Lumber
- Insulation

Building a Greener Tomorrow...Today

For further information please call our toll free number 1-800-352-2852

Defense Supply Center Philadelphia
Biobased Plastic Flatware

- Biobased resin uses wheat to replace 50% of Polypropylene
- Meets or exceeds all current performance standards (impact strength, heat distortion, flexibility, biodegradability)
- Replacement into Unitized Group Ration A and Heat & Serve programs, then into daily dining facilities on military bases, hospitals, etc.

As shown above, the flatware is packaged with napkin, sugar, salt and pepper in a clear plastic bag.
In addition to supplying medical equipment and pharmaceuticals, DSCP also provides DLA customers with an environmentally responsible and safe way to dispose of pharmaceuticals.

Instead of throwing away, expired pharmaceuticals, our customers are disposing of them in a more environmentally sound way.

They also get credit back to spend on new pharmaceuticals.

Defense Supply Center Philadelphia
Primary Level Field Activities
Defense Supply Center Columbus

INITIATIVES
- Tires Privatization
- Forward Sustainment
- Enterprise Buyers Forward
- Joint Regional Inventory Matl. Mgmt.
- Supply, Storage & Distrib.
- Depot Level Reparables
- Army Reset Support
- MRAP Sustainment

LAND:
- Vehicles
- USMC / Army Equipment

MARITIME:
- Parts for Ships
- Parts for Submarines
DSCC Asbestos Elimination

- **Asbestos Program Progress**
  - Database contains 13171 National Stock Numbers (NSNs)
  - Majority of NSNs in FSC 5330

- **Breakdown**
  - FSC 5319: 156 NSNs
    - 36- Have replacements
    - 101- Cancelled without replacements
    - 7- Not DLA managed
    - 12- Requiring review
  
  - FSC 5330: 12632 NSNs:
    - 5023: - Have replacements
    - 4363: - Cancelled without replacement
    - 3246:- Requiring review
  
  - FSC 5356: 13 NSNs
    - 5- Have replacements
  
  - FSC 5356: 13 NSNs
    - 3- Cancelled without replacement
  
  - FSC 5340: - 368 NSNs
    - 178- Have replacements
    - 92-Cancelled without replacement
    - 25- Not DLA managed
    - 73 Requiring review
DSCC Cadmium Plating In Electrical Connector Specification

• Issue
  – Cadmium identified as a hazardous material and targeted for reduction/elimination with the RoHS.
  – DSCC working with military services, manufacturers and equipment contractors to find effective alternative.
  – Several alternatives undergoing testing.
  – To date, alternate finishes in existing specifications perform at the same level as Cadmium in corrosive (salt spray)
  – Specification changes

• Identified Alternatives:
  – Zinc Nickel
  – Teflon Nickel
  – Pure Electrodeposited Aluminum
  – Zinc Cobalt

• The Plan
  – DSCC is not proposing the total elimination of Cadmium at this time although it is a long term goal.
  – Existing applications still require Cadmium plating and military applications do have a waiver to use Cadmium.
Primary Level Field Activities
Defense Energy Support Center

INITIATIVES
- CENTCOM AOR Support
- Open Market Bunker Support
- Bulk Terminal Ops Privatization
- Garrison / Base Energy Support
- Utilities Privatization Support
- Alternative Fuel and Renewable Energy

ENERGY:
- DOD Executive Agent for all Bulk Petroleum
- Natural Gas, Coal, Electricity
- Aerospace Energy
Bio-based Fuels (aka Biofuels)

- Biodiesel, mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats IAW ASTM D 6751, for use in diesel engines. **Most Popular: B20**, a blend: 20% biodiesel & 80% ultra-low sulfur diesel fuel
- **E85**, a blend of 85% ethanol and 15% gasoline
- Initially driven by the **Energy Policy Act (EPACT) of 1992** and **EO 13149: Greening the Government Through Federal Fleet and Transportation Efficiency**
- Biofuel use reduces regulated exhaust emissions, decreases petroleum imports
- DESC worked to establish quality requirements for B20 so fuel works comparable to diesel; recognized with White House award

**POC:** D427-8359; D427-8354 (Comm 703-767)

Defense Energy Support Center
The Navy celebrated Earth Day April 22, 2010 by showcasing a supersonic flight test of the "Green Hornet," an F/A-18 Super Hornet strike fighter jet powered by a 50/50 biofuel blend supplied by DESC at Naval Air Station Patuxent River, Md.
The Air Force tested an A-10C Thunderbolt II at Eglin Air Force Base, Florida, fueled with a 50-percent mixture of a fuel refined from the crushed seeds of the flowering Camelina sativa plant supplied by DESC in March 2010.
Current DLA Warfighter Green Products/HAZMIN Team Projects

- MIL-PRF-85570 Type II Aircraft Cleaner – DSCR
- MIL-PRF-85570 Type I Aerosol form and Pre-moistened Wipes Aircraft Cleaner – DSCR
- Micro-fiber Cloths for Non-Chemical Cleaning of Canopies & Optics - DSCR
- Environmentally Compliant Chemical Paint Strippers - DSCR
- Chrome Free Pretreatment Applicator Pen (MIL-DTL-81706 Type II) - DSCR
- Electrical Contact Cleaner (MIL-PRF-29608 Class L CPC) - DSCR
- Cold Spray/Kinetic Metallization Development for Military Aerospace Application - DSCR
- COTS Environmentally Compliant Non-Structural Adhesives - DSCR
- Non-Aqueous Low-VOC and HAP-Free Cleaner MIL-PRF-32295 Type II - DSCR
- Bio-based Hydraulic Lubricants – DSCR
- Closed-Loop Recycled Antifreeze Service Program - DSCR
Current DLA Warfighter Green Products/HAZMIN Team Projects

- Non- Cadmium Plated Connectors – DSCC
- UGR heater tray, plates, cups, clamshells – DSCP
- Health and Comfort Pack combs, razors, toothbrushes – DSCP
- Energy Efficient Lighting - DSCP
- Energy Efficient HVAC - DSCP
- Energy Saving Plumbing - DSCP
- Environmentally Safe Building Materials – DSCP
- Safe Disposal of Pharmaceuticals - DSCP
- Bio-based Fuels - DESC
Questions?

Operational and Warfighter Issues:

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