



# **DLA Aging Systems Program: Technology Investment for Sustainment**

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# What DLA Does



- Manage and provide parts and supplies
  - Services
  - Contractors
  - Foreign Countries
- Acquire, stock, issue and deliver
  - Weapon system parts – Aviation, Land, Maritime
  - Medical
  - Subsistence
  - Clothing & Textiles
  - Construction & Equipment
  - Energy



# DLA Aviation Business



	<b>FY 02</b>	<b>FY 04</b>
NSNs	1,042,979	1,086,143
Gross Sales	\$4.3 B	\$4.4 B
On-Hand Inventory	\$4.7 B	\$5.3 B
Units Shipped	198,002,963	221,868,185
Units In Stock	450,996,790	449,128,187
Suppliers	6,163	5,828



# Aging Systems Program Mission



- Explore and prototype tools and technologies that can:
  - Help DLA people do their jobs better/easier in supporting DLA customers
  - Help DLA customers collaborate better with DLA people

**ADDRESS DLA CUSTOMER SUPPORT ISSUES**



# Technical Thrusts



- Advanced Manufacturing
- Sustaining Engineering
- Parts Situation Awareness - Supply Response Time
- Specialized Analyses



# Advanced Manufacturing



- **Focus** – new and advanced factory floor processes and products
- **Goals** – improve DLA's response to customer needs for parts availability, reliability and cost reduction
- **Development Products** – validated advanced manufacturing processes



# Supply Response Time/Parts Situation Awareness



- **Focus** – improve DLA's item management, demand visibility and order fulfillment
- **Goals** - improve supply availability and reduce customer wait time
- **Development Products** - validated recommendations for changes to policies, procedures and information systems



# Sustaining Engineering



- **Focus** - tools and methods for sustaining engineering functions
- **Goals** - improved supply support to aging systems
- **Development Products** - streamlined methods to identify problem parts; qualify parts and suppliers; and maintain technical data



# Specialized Analyses



- **Focus** – in depth assessments to support DLA
- **Goals** – analyses to guide future activities and to assist various DLA functions
- **Development Products** – analytical results for management decisions



# Website



- <http://www.dla-aa.us>
- Program mission – Logistics R&D
- Examples of past projects
- Current program focus
- Upcoming events



# Sustaining Engineering in DLA



- Pilot initiated in Nov 02 by Aging Aircraft program and DSCR command
- Importance recognized by DLA command
- Current funding ~ \$22M/yr at DSCR
- Engineering staff in place
- 51 projects – reliability improvement
- Customer focused improvements
- Similar effort at DSCC, different approach
- R&D support from Aging Systems Program



# AGILE SUSTAINMENT



- OSD sponsored
- Sustaining systems over extended life cycle at minimum cost to taxpayer
- Initial meeting had broad foundation
- Focused on source development at DSCR
  - Increase competition
  - Reduce source approval hurdles
  - Proactive management of sources



# AGILE SUSTAINMENT cont'd



- DSCR Action Plan
  - “Rockpile” – 100 oldest backorders
  - Technical review for issues causing delay
  - Analysis to determine items with similar issues
  - Group items by corrective action desired
  - Distribute lists of items to obtain new sources, qualify additional sources, or reverse engineer items
  - Engage suppliers, Service initiatives and other programs



# Sustaining Engineering Center of Excellence



- What is it?
  - A collection of resources focused on long term solutions to nagging logistics problems impacting DLA items
- How does it operate?
  - DSCR engineers, management, contractors or suppliers identify opportunities
  - Project is evaluated per established criteria
  - Projects are categorized for action in house, by industry or by academia
  - Metrics are captured at the end of each project and compared to projected savings, etc.



# Future Strategy



- Effect the application of resources
  - Prioritize needs of Aviation supply chain
    - Sustaining Engineering projects
    - Agile sustainment targets
    - Test requirements, ESA collaboration, etc
  - Participate in joint forums to influence investments
    - JCAA, JALC, ManTech, OSD
- Ensure DLA is a player – reap benefits
  - One DLA improvement can benefit many
  - Focus on readiness improvement
  - Reduce total ownership cost



# Standardization - Example Activities



- QwikSTEP
- Aircraft Batteries



# QwikSTEP



- Project to broaden DLA use of product data compliant with the STEP international standard
- Pilot adoption processes and measure benefits
- 20 NSNs for Army items
- Process steps:
  - Convert raster scanned drawings to CAD compliant with AP203 and AP224
  - ESA approves new product data and includes in TDP
  - DSCC stores new TDP
  - DSCC posts new TDP with RFQ
  - Capture benefits to vendor after award
- Status: 7 months into 18 month project
- Pilot success expected to lead to broader DLA initiative



# Aircraft Batteries



- Joint project with NAVAIR
- Approach to achieve a standardized solution in battery replacement for multiple weapon systems
- Batteries for backup emergency power
  - 7 applications on 6 Navy aircraft
- Replace Ni-Cad with sealed lead-acid batteries
- Savings in acquisition, storage & maintenance costs
- Process steps:
  - Redesign
  - Prototyping
  - Electrical Performance and flight testing
  - Technical documentation
- Status: 6 in flight testing; one about to start



# Summary



- Systems engineering is important to DLA
- Includes Standardization objectives
- Aging Systems Program provides resources and supports jointness to meet objectives
- Future emphasis: broadly applicable technologies, common parts, and new tools



# Questions???

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