Logistics Research & Engineering Directorate

Providing logistics support to our warfighters

Alan Galonski
Chief, Future Concepts Division
Logistics R&E Directorate Support to Operations in Iraq

M7 Forward Repair System Heavy and Body EOD Vehicle - Critical to Operation Iraqi Freedom
Contact Maintenance Truck Estimated 700 deployed to Afghanistan and Iraq
Rock Island Arsenal producing 10 per month

Accelerated fielding and provided 16 prototype Configured Load Building Tool laptops and trained Stryker BCT deploying to Iraq

Captured Enemy Ammunition
- Provided cost estimate and sources of supply info to Corps of Engineers for 30,000 pallets & banding materials for ammo consolidation & handling
- Pursuing modified version of ASIS MHP to provide Iraqi Army ammo stock visibility and surveillance
- LRED leading effort on future reconstitution of ammo for Iraqi Defense Forces
**Configured Load Building Tool**

Platform Type

Weight and Cube of Finished Load

Load Assembly Instructions

User Selectable 3-D Viewing Angle and Zoom

**Status:**
- Fielded with Stryker Brigade in Mid-East
- Integrating with SAAS STAMIS for Class V
- Incorporating process for irregular shaped objects - July 05
- Delivery of Full Operational Capability (FOC) – Sept 05
Logistics R&E Directorate Support to Operations in Iraq

- Deploying Dec 03 to provide new equipment training and ensure soldiers understand safety issues involved with firing AT4-CS in confined spaces.
- Providing training on various non-lethal munitions systems to soldiers deploying from Ft. Dix NJ to SWA.
- Determined the packaging and palletization materials for 33K STONS of retrograde ammunition.
- Leading numerous malfunction investigations which could impact deployed troops in Iraq.
- Deployed to Baghdad as part of Rapid Equipping Force to train 101st and 82nd Airborne and 2nd and 3rd BCTs on Gunfire Detection System.
**Gunfire Detection System**
Units trained in Mosul
101st Airborne Division
8 classes, 74 students

**AT4 CS HP**
Units trained in Afghanistan
3/3 SFG, 10th INF DIV 1st BDE, 2-22 INF,
C Co LRSD Batt and 1st 501st PIR.
4 classes, 63 students

**Weapons Optics**
M-68 CCO, ACOG,
back-up iron sight, M-145 MGO
Units trained in Camp Victory
1 class, 25 students
**Satellite New Equipment Training Center**

- 24-hour *on-site* satellite transmission and downlink
- CONUS and OCONUS locations to include Southeast Asia

*Portable Field-Deployable Satellite System*

Rapid capability to conduct new equipment training in response to warfighter needs

*New capability to enable the Warfighter to reach back to ARDEC subject matter experts for training and to rapidly resolve technical issues*
Logistics R&E Directorate Support to Operations in Afghanistan

1000 containers provided rapidly to ship items to Afghanistan “Wow - you guys work fast” - Capt Jansen, Special Ops Support Battalion

“The ASIS (Ammo Surveillance Information System) is Gold in Afghanistan”…Quality Assurance Surveillance Ammunition Specialist (QASAS) responsible to ensure ammo is serviceable in Afghanistan

Assisted with numerous packaging and palletization issues. Example: improved packaging for substitute 5.56mm training rounds
Ammunition Surveillance Information System
Munitions History Program (ASIS-MHP)

• Internet accessible inspection application

• Collects & communicates munitions readiness status directly from field to command

• Enables authorized users worldwide data access via the internet

Team Development effort:
• AMCOM
• ARDEC ATS Div
• ARDEC, Future Concepts Division
• Defense Ammo Center (DAC)
• QASAS Surveillance Mod Team members
• Jacobs Sverdrup
• JMC

Fielded at: Arifjan Kuwait, Blue Grass Army Depot, Crane Army Ammunition Activity, Letterkenny Army Depot, MOTSU Prepo, Picatinny, Tooele Army Depot & USARPAC, Hawaii

• Initial fielding 2003
• 130 worldwide registered users
• Round the clock system operation
• 19,000 inspections successfully entered into ASIS MHP
• Next Stop - Anniston Army Depot – June 2005
**Ammunition Packaging**

_The time has come..._ to take Ammunition Packaging to the next step:

- Examine units of issue
- Automation friendly packaging configurations
- Reduced layers
- Rapid reconfiguration and nesting for configured loads
- Insensitive munitions enhancement
- Integration of UID and RFID technologies

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**Images:**
- M8 Bandoleer
- Commercial Blister Pack
- Wirebphone Overpack
- Commercial PackPlus
- Single item pallets
- Nestable Packaging
Joint Modular Intermodal Distribution System (JMIDS) ACTD

Joint Service packages and platforms with integrated asset tracking to enable the efficient and seamless movement of supplies through the distribution system.

Participants:
- Lead Service: Army
- Partnering Service: USN
- Sponsoring CoCOM: TRANSCOM
- Technical Manager: ARMY, ARDEC
- Operational Manager: TRANSCOM, J5
- Transition Managers: Service PEOs / PMs
- DoD Agencies: DLA
- Supporting Services: USMC, USAF
- Supporting CoCOMs: JFCOM

ARDEC Lead - FY06 ACTD / JCTD Candidate
Joint Modular Intermodal Distribution System (JMIDS) ACTD
Ammunition Adage

A Soldier can survive in Combat

Forever Without Mail

30 Days Without Food

3 Days Without Water

3 Minutes Without Air

But Not One *Second* Without Ammunition!
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