Light Armored Vehicles (LAV)

Colonel John J. Bryant
Program Manager
Program Manager Light Armored Vehicles

- Our Mission - Provide research, development, acquisition and life cycle support for USMC Light Armored Vehicle family of vehicles.
- Our Customer – LAR Battalion (conducts reconnaissance, security, and economy-of-force operations and, within capabilities, conducts limited offensive or delaying operations that exploit the unit’s mobility and firepower
- Our Location – MARCORSYSCOM program office located and supported by USATACOM, Warren MI
- Our Product – A wheeled armored combat vehicle with a 20-year history in the field with another 20 years of upgrades and sustainment on the horizon
PM LAV Total FY06 Funding: $234.9M

Appropriations Spending Breakout:

<table>
<thead>
<tr>
<th>Appropriations</th>
<th>FY 06</th>
<th>FY 06 Supplemental</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDT&amp;E</td>
<td>$12M</td>
<td>$0</td>
<td>$5.5M</td>
</tr>
<tr>
<td>O&amp;MMC</td>
<td>$2.4M</td>
<td>$0</td>
<td>$2.9M</td>
</tr>
<tr>
<td>PMC</td>
<td>$138.5M</td>
<td>$82M</td>
<td>$26M</td>
</tr>
</tbody>
</table>
USMC LAV Modernization Plans

- LAV SLEP Status
- Funded Programs
  - LAV-C2 Upgrade
  - LAV-25 Lethality Upgrade
  - OIF Upgrades
  - Five New Companies
- Future LAV Programs
  - Survivability Upgrades
  - LAV-Anti-Armor System
  - LAV-EFSS (Expeditionary Fire Support System)
LAV SLEP Status

- Improve survivability, sustainability and lethality - extend service life to 2015
  - Basic SLEP
    - Electrical/electronics, control panels, corrosion control, and tire/wheel upgrades; thermal signature reduction
    - Prime contractors: Metric Systems, Hutchinson Industries
    - Milestone III decision/production award: Apr 02
    - IOC: 2Q FY04  FOC: 1Q FY06
  - Improved Thermal Sight System
    - 2nd Gen thermal sight, laser rangefinder, far target location, fire control
    - Prime contractor: Raytheon
    - FRP milestone/award production option 4QFY 05
    - IOC: 1Q FY07  FOC: 1Q FY10
Funded Programs

LAV Command & Control (LAV-C2) Upgrade

• LAV-C2 Upgrade provides:
  – Ability to operate on-the-move
    • MAGTF digital C4I systems
    • Doctrinal voice command and control nets
    • for a separate battalion in a Marine Division
  – SATCOM on-the-move
  – Dependable HF on-the-move
  – Intercommunications system
  – “Hooks” for JTRS

• Two Contractors
  – Northrop Grumman
  – Lockheed Martin
Funded Programs

LAV-25 Lethality Upgrade

- LAV-25 Lethality Program will provide
  - Depleted uranium armor piercing round for LAV-25
    - Software upgrade to ITSS for D/U ballistics
    - Gun and recoil system upgrades to handle D/U round
    - Ammo, gun upgrades are already fielded for Bradley
    - Allows LAV-25 to penetrate more threat vehicles
    - USMC will continue to employ the current 25mm APDS-T round, but will obtain the flexibility to fire D/U when required to defeat more advanced threat vehicles
Funded Programs
OIF Upgrades

• LAV OIF Upgrades
  – Automatic Fire Suppression
  – Add-on Armor
  – 2nd Generation Suspension
  – Electric Turret Drive

• Contractors
  – Kidde Dual Spectrum
  – ARMATEC
  – GDLS
Funded Programs
Five New Companies

- Five New Companies
  - USMC approved LAR structure increase of five companies
  - 120 new LAVs
    - Incorporate SLEP Upgrades
    - Incorporate OIF Upgrades
  - Prime Contractor: GDLS
The Future of LAV?

- USMC LAV projected to remain in service until 2024 (replaced by MAGTF Expeditionary Family of Fighting Vehicles (MEFFV))
- LAV family of vehicles must remain
  - Effective in the face of increasing threat capabilities
  - Supportable in the face of increasing age
- The challenge: How much survivability, lethality and mobility can be packed into an air-transportable, swim-capable LAV?
- The POM initiatives:
  - Survivability Upgrades
  - LAV-Advanced Anti-Armor System
  - LAV-EFSS (Expeditionary Fire Support System)
Future LAV Programs

LAV Survivability Upgrades

- LAV Survivability Upgrades will provide
  - Mine Protection
    - Protected seats
    - Hull/deck reinforcement
  - Active Protection System
    - Close-in hand held rockets
    - ATGM
    - “B” kit developed as HTI Program by PM MEFFV
    - “A” kit developed by PM, LAV

- System Development and Demonstration 3 years
- Production and Deployment 4 years
- POM 08 initiative
Future LAV Programs

LAV Advanced Anti-Armor System

- LAV-AT deficiencies: Firing cycle time, corrosion, obsolescence
- Strategy: Replace 95 Emerson 901A1 turrets with LAV-25 “Saddlebag TOW” turrets
- System Development and Demonstration 3 years
- Production and Deployment 4 years
- Un-funded in POM ’06 – Recompete for POM ‘08
Future LAV Programs

LAV Expeditionary Fire Support System

• LAV-M 81mm mortar has inadequate range, lethality, engagement cycle time
• Strategy: Replace 50 LAV mortars by integrating 120 mm rifled mortar and fire control system into existing LAV-M platforms.
• System Development and Demonstration 3 years
• Production and Deployment 4 years
• Un-funded in POM ’06 – Recompete POM ‘08