



MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS

Advanced Planning Briefing to Industry 2006
Independent Program Managers

Light Armored Vehicles (LAV)

A grayscale image of a Light Armored Vehicle (LAV) with a turret and various equipment on top, positioned in the background behind the text.

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



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PM LAV Total FY06 Funding: \$234.9M

Appropriations Spending Breakout:

Appropriations	FY 06	FY 06 Supplemental	FY 07
RDT&E	\$12M	\$0	\$5.5M
O&MMC	\$2.4M	\$0	\$2.9M
PMC	\$138.5M	\$82M	\$26M



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

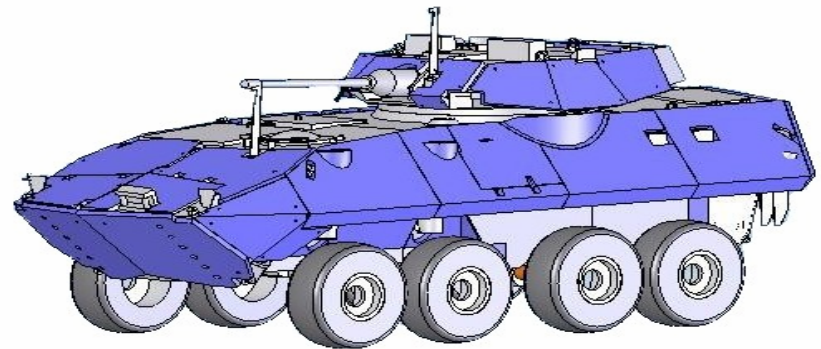




Funded Programs

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 – Re-compete 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 – Re compete POM '08