Advanced Planning Briefing to Industry
5-7 April 2010

Program Manager Light Armored Vehicles Overview

Colonel Brian Buckles, USMC

- PM LAV Mission - ***Research, development, acquisition and life cycle support*** for USMC Light Armored Vehicle family of vehicles.

- Our Location – MARCORSYSCOM program office supported by ***TACOM*** in ***Warren, Michigan***

  – LAV – in the ***Light Armored Reconnaissance Battalion.***

  - Conduct reconnaissance, security, and economy-of-force operations, limited offensive or delaying operations that exploit the unit's mobility and firepower.
  - Eight-wheeled armored combat vehicle with a ***25-year history*** to remain in service until to ***2025*** and possibly beyond.

  – MPC – will reside in the ***Amphibious Assault Battalion.***

  - Provide armor-protected mobility for infantry battalion maneuver task forces. 2 MPCs will lift a reinforced rifle squad.
  - The MPC program balances vehicle performance, protection, and payload attributes.

Organization Chart

COMMANDER

PEO Land Systems

PM Expeditionary Fighting Vehicle
PM JPMO, Lightweight 155, Picatinny, NJ
PM Marine Personnel Carrier (MPC)
PM Logistics Vehicle System Replacement (LVSR)
PM Joint Light Tactical Vehicle (JLTV)
PM Medium Tactical Vehicle Replacement (MTVR)
PM Ground/Air Task Oriented Radar (G/ATOR)
PM Common Aviation Command & Control System (CAC2S)

Chief of Staff

Operations Cell
Postal
Reserve Affairs
Security

Chief Management Office (CMO)

Facilities, Services and Supply (FS&S)
Office of the Command Information Officer (CIO)
Strategic Change Management Center (SCMC)

Sergeant Major

Special Staff

Corporate Communications
International Programs (IP)
Office of the Counsel >
Office of Small Business Programs (OSBP)
Safety <

EXECUTIVE DIRECTOR *

Deputy Commander Resource Management *^

- Resource Mgmt Competency Domain/ Competency Leaders
- Director, Financial Management
- Director, Workforce Management and Development

Deputy Commander SIAT *^

- Research & Systems Engineering Competency Domain/ Competency Leaders
- Director, Architectures and Engineering Analysis
- Director, Information Assurance
- Director, MAGTF and Joint Integration & Certification
- Director, Systems Engineering and Technology
- Commanding Officer MCTSSA Camp Pendleton, CA

Product Group 09 Director, Operational Forces Systems

Product Group 10 Director, Information Systems & Infrastructure

Product Group 11 Director, MAGTF C2, Weapons & Sensors Development & Integration

Product Group 12 Director, Communications, Intelligence, & Networking Systems

Product Group 13 Director, Infantry Weapons Systems

Product Group 14 Director, Armor &Fire Support Systems

Product Group 15 Director, Ground Transportation & Engineer Systems

Product Group 16 Director, Combat Equipment and Support Systems

Program Manager, Ammunition

Program Manager, Global Combat Support System-Marine Corps

Program Manager, Light Armored Vehicle Warren, MI

Program Manager, Mine Resistant Ambush Protected

Program Manager, Robotic Systems Warren, MI

Program Manager, Training Systems Orlando, FL

Deputy JPEO, Chemical & Biological Defense Arlington, VA

Assistant Commander Contracts ^

- Contracts Competency Domain/ Competency Leaders

Assistant Commander Life Cycle Logistics ^

- Life Cycle Logistics Competency Domain/ Competency Leaders

Assistant Commander Programs ^

- Program Mgmt Competency Domain/ Competency Leaders

* = SES Position
^ = Competency Director
> = Counsel reports to DepCounsel to Commandant
< = Safety reports to SIAT

Updated 4 Dec 09

PM LAV Principals:

PM: *Colonel Brian Buckles, USMC*

Deputy PM: *Dr. Bob Lusardi*

- **LAV Fleet Mgmt Team**: *Jim Streberger*
- **Survivability Upgrade Team**: *Linda Passeri*
- **Electrical Power & Signals Team**: *Derald Schnepp*
- **LAV Platform Upgrades Team**: *John Engbloom*
- **FMS Programs Team**: *Joe Wagner*
- **Marine Personnel Carrier Team**: *Bill Ross*

Business/ Financial Manager: *Jan Boatman*

Contracts Manager: *Bill Abramson*

Lead Engineer: *Matt Koneda*

Lead Logistician: *Josephine Polanco*

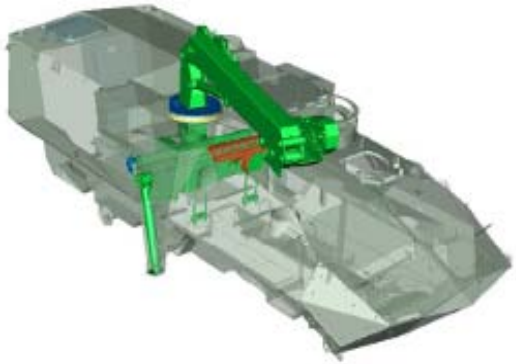
FYDP Investment Summary

	FY10	FY11	FY12	FY13	FY14	FY15
LAV Systems	RDT&E $6.6M PMC $74.2M	RDT&E $14.8M PMC $193.6M	RDT&E $17.0M PMC $16.4M	RDT&E $10.9M PMC $6.0M	RDT&E $2.3M PMC $121.3M	RDT&E $2.4M PMC $116.8M
	LAV AT MODERNIZATION, LAV MODIFICATIONS					
	C2 UPGRADES PRODUCTION, REPROCUREMENT FIELDING, RAPID ACQ MODS					
	SURVIVABILITY II UPGRADES					

- LAV-C2A2 Upgrade Program is designed to meet and maintain the command and control requirements of today's battlefields and have the growth capability to meet future expansions of hardware and software

- LAV-C2A2 Upgrade System passed MS C Nov 2009
- Now in Production and Deployment Phase:
  - First 8 LAV-C2A2 upgrade vehicles slated for deployment to theater
  - First production delivery June 2010
- Upcoming Testing
  - Production Verification Test; 1Q FY11; sites TBD
  - PCA, 1Q FY11

- The LAV-R upgrade is an abbreviated acquisition program.
- The objective is to improve the supportability and mission effectiveness of the LAV-RA2 by providing the following “mission suite upgrades” on 45 recovery vehicles:
  - A crane that will increase boom rigidity, lift capability and reliability;
  - A winch with greater pull capability and improved supportability;
  - A generator with improved supportability and additional power;
  - A hydraulics system upgrade to support the crane, winch, and generator.



- Schedule
  - RFP release targeted within the next 30 days
  - Contract Award for Engineering Development Model assets and production 2Q FY10
  - Integration and Test 3Q FY10-1Q FY11
  - IOC 3Q FY11

- ACATIII Program authorized to enter at MS B.
- The LAV-Anti-Tank Modernization program will replace the obsolete Emerson M901 turret by providing “mission suite upgrades” on 118 LAV-ATA2 vehicles:
  - Improved reliability, availability, and maintainability;
  - Multi-shot capability and ability to acquire targets while on-the-move;
  - Provide a precision long-range capability to destroy enemy tanks;
  - An improved thermal sight and an advanced fire control system capable of firing the current and next generation heavy anti-armor missiles and ensure training commonality.

- Schedule
  - MS B July 2010
  - MS C 1Q FY14
  - Four yearly production options starting in FY14
  - IOC 2Q FY15

- Three part project:
  - Upgraded, self-sealing fuel system
  - Blast attenuating seats
  - Lighter weight underbody protection and floor/weld reinforcement
- All three contracts will be awarded following competitive source selection
  - RFP for fuel cell to be released in April 2010
  - RFP for seats to be released in June 2010
  - Improved underbody protection design to be completed in 4Q FY10

- USMC LAV projected to remain ***in service until 2025***
- LAV family of vehicles must remain
  - ***Effective*** in the face of increasing threat capabilities
  - ***Supportable*** in the face of increasing age (Obsolescence is a growing issue)
- The challenge: ***How much survivability, lethality and mobility can be packed into an air-transportable, swim-capable LAV?***

- **Future Needs:**
  - **Suspension Upgrades**
  - **Sustainment Upgrades**
  - **Reduced Energy Needs**
  - **Lightweight Armor**
  - **Improvements in Situational Awareness**

Questions ?