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.
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
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<tr>
<th>LAV Systems</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
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<tr>
<td>RDT&amp;E PMC</td>
<td>$6.6M</td>
<td>$14.8M</td>
<td>$17.0M</td>
<td>$10.9M</td>
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<td>$2.4M</td>
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<td>$74.2M</td>
<td>$193.6M</td>
<td>$16.4M</td>
<td>$6.0M</td>
<td>$121.3M</td>
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<td><strong>LAV AT MODERNIZATION, LAV MODIFICATIONS</strong></td>
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<td><strong>C2 UPGRADES PRODUCTION, REPROCUREMENT FIELDING, RAPID ACQ MODS</strong></td>
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<td><strong>SURVIVABILITY II UPGRADES</strong></td>
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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
Survivability II Upgrades

• 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 ?