Agenda

- USMC Combat Vehicle Organizations
- Light Armored Vehicles
- Assault Amphibious Vehicles
- Tank Systems
- Expeditionary Fighting Vehicle
- Marine Personnel Carrier
- Q&A

“Making the Transition to the Future”
USMC PEO Land Systems

“Making the Transition to the Future”
NDIA Combat Vehicles Conference
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Light Armored Vehicles

“Making the Transition to the Future”
PM LAV

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.

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LAV Modernization Plans

Funded Programs
- LAV SLEP/ Improved Thermal Sight System (ITSS)- Fielding.
- LAV-C2 Upgrade- Moving towards Milestone-C.
- LAV-25 Lethality Upgrade- Working.
- OIF Upgrades, A2 Upgrade, LAV Re-Procurement- Fielding.

Future LAV Programs (FY08-FY09)
- LAV Rapid Acquisitions & Modifications (RAM)
- LAV Survivability Upgrades - Part II
- LAV Fleet Sustainment Upgrades - EPLS

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Past RAM Projects

ALL PROJECTS COME OUT THROUGH:
Federal Business Opportunities

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Incorporate *Floor Spall Liner*

*Protection or Relocation of Fuel Tank*

Incorporate *Mine Blast Resistant Seating* where possible

- LAV-25
  - VC and Gunner
  - Scouts
- Mission Role Vehicles
  - VC and staff locations
- Driver cannot be suspended but will need a reinforced seat and leg protection
LAV - Closing Remarks

- 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 (CBM+ & Obsolescence are growing issues)
- The challenge: *How much survivability, lethality and mobility can be packed into an air-transportable, swim-capable LAV?*

**Near Future:**
- LAV RAM projects
- LAV Survivability Upgrades
- LAV Sustainment Upgrades

“Making the Transition to the Future”
Marine Personnel Carrier (MPC)

"Making the Transition to the Future"
MPC: System Description

- MPC is part of a portfolio of capabilities that provide closure to real world operational gaps and shortfalls in the ability of the MAGTF to conduct ground based maneuver tasks. The MPC, as the medium capability category platform, provides a bridge in capability between the EFV and JLTV and a balance between the performance, protection and payload attributes.

- The MPC is an expeditionary armored personnel carrier - ideal for irregular warfare - yet effective across the full range of military operations. Providing armor-protected mobility for infantry battalion maneuver task forces.

- The MPC family of vehicles includes the base armored personnel carrier and two supporting mission role variants: a command & control variant and a recovery & maintenance variant.

- Each vehicle type will be subjected to automotive performance, electromagnetic effects, reliability, live fire and operational tests.

- Although there is no existing Joint application, there are ongoing discussions between the Marine Corps and the Army to identify potential points of joint convergence.

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Marine Personnel Carrier (MPC)
Pre-MS A: The Near Future…

- Currently working with ONR to mature technologies that need to be integrated on the MPC
  - **Advance Lightweight Armor** Materials/Technologies
  - **Advanced Seat Technology** for blast resistance, shock mitigation and roll-over protection
  - **Active Protection System**
  - On-Board Vehicle Power for **exportable power**
  - **Fuel Efficiency** & Battlefield Power
  - **Advanced Suspension**
  - **TBD**

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Questions?

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