



MARINE CORPS SYSTEMS COMMAND PROGRAM EXECUTIVE OFFICER LAND SYSTEMS



Advanced Planning Briefing to Industry

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(PM LTV)

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Agenda

- **Establishment of Light Tactical Vehicles Program Office**
- **Light Tactical Vehicles Portfolio Overview**
- **Programs Status, Issues, and Outlook**
 - **Joint Light Tactical Vehicle (JLTV)**
 - **High Mobility Multi-purpose Wheeled Vehicle (HMMWV) Sustainment Modifications**
 - **Internally Transportable Vehicle (ITV)**
 - **Marine Corps Transparent Armor Gun Shield – Reducible (MCTAGS-R)**
- **Lightening the Marine Air-Ground Task Force (MAGTF)**
- **Questions & Discussion**



Origins: “Light Tactical Vehicles”

Dec 2011: Portfolio & Program Alignment

- **PM Motor Transport transitioned from MARCORSYSCOM to PEO Land Systems**
- **All future and legacy light tactical/combat wheeled vehicles consolidated under a single PMO**
- **PM LTV chartered to assume responsibility for management and execution of all Marine Corps light tactical vehicle acquisition programs and legacy fleet sustainment**
 - Domain logic
 - Synergy among related programs
 - Organizational efficiency
 - Unity of Command & Unity of Effort



PM LTV Portfolio Overview

Span of Control – research, development, acquisition, and total lifecycle management of Marine Corps light tactical vehicle systems and equipment:

- **Joint Light Tactical Vehicle (JLTV) Program**
- **High Mobility Multi-purpose Wheeled Vehicle (HMMWV) Legacy Fleet**
- **HMMWV Sustainment Modification Program**
- **Internally Transportable Vehicle (ITV) Program**
- **Light Tactical Trailers (LTT) Program**
- **Military Motorcycle (MILMO) Program**
- **Associated Light Tactical Vehicle TAMCNs**
- **Integration of Component TAMCNs**



JLTV Program Status

- **CDD approved via JROCM on 15 Mar 2012**
- **Entered source selection for up to three EMD phase contract awards on 27 Mar 2012**
- **United Army-Marine Corps front on a common JLTV base vehicle requirement**
 - **Most cost-effective program to meet critical capability gaps in the USMC light combat vehicle fleet**
 - **USMC AAO remains 5,500 vehicles**
- **Specific JLTV platform variants, mission package configurations: don't ask...**



JLTV Outlook

- **Engineering & Manufacturing Development (EMD) Phase Testing**
 - Performance
 - Reliability / Availability / Maintainability / Durability (RAM-D)
 - Ballistics
 - Corrosion
 - Limited User Test (LUT)
- **MS C planning for 2Q FY15**
- **Down-select to single FFP contract for Production & Deployment (PD) Phase**
 - Base three-year Low Rate Initial Production (LRIP)
 - Option(s) for five years of Full Rate Production (FRP)



HMMWV Sustainment Modifications Program Status

- **NATC currently on contract for concept development and evaluation, based upon consolidated RFI responses from industry**
 - **Leverage mature, production-ready designs based upon extensive R&D, testing across industrial base**
 - **Develop multiple preliminary modification kit concepts for down-select based upon requirements and resources**

- **PMO to award near-term follow-on efforts to build/integrate and test and evaluate kit concepts**
 - **Evaluate at least four distinct kit concepts using performance and RAM-D testing**
 - **Concept distinctions based on affordability, capability, and associated cost and performance trades**



HMMWV Sustainment Modification Issues

Mission: restore ECV HMMWVs to pre-armoring levels of safety, performance, and reliability

- **Restore RAM-D to 2004 ORD threshold values**
- **Retain or improve transportability**
- **Restore mobility to 2004 ORD threshold values**
- **Reduce O&M costs, to include improvements to the logistics footprint and energy efficiency while operating in the expeditionary environment**
- **Restore payload to 2004 ORD values**
- **Improve protective features of those HMMWVs not replaced by JLTV**



HMMWV Sustainment Modification Outlook

- **FY13 Operational Assessment**
- **4Q FY13 RFP based upon modification kit concept evaluations**
 - Full and open competition – industry, depots, public/private sector partnerships
 - Production / assembly and installation / integration of mod kits on platforms, ILS
- **FY14 Production Verification Test, Live Fire Test & Eval, Limited User Eval**
- **Up to (~7,900) ECV HMMWVs to receive sustainment mods through FY21**



Internally Transportable Vehicle (ITV) Program Status

- **Production and Deployment Phase since FY09, production ends in FY12**
- **Fielded as a “system of systems”**
 - **Light Strike Vehicle supports Infantry, Recon, SOF**
 - **Prime Mover tows Expeditionary Fire Support System mortars and ammunition trailers**
- **Currently supported primarily by CLS, transitioning to organic support**
- **Competitive CLS contract award in 3Q FY12**
 - **Supports fielding in late FY12, FY13**
 - **Provides technical and parts support until completion of provisioning efforts**



ITV Issues

- **Throttle binding issue resulted in 22 Mar safety deadline of ITV fleet**
 - Inspection and corrective action procedures developed in cooperation between OEM and PMO
 - 30 Mar follow-on message authorized implementation and by-vehicle restoration of operational status
 - Initiated testing to evaluate durability of solution
- **Reliability reporting discrepancies between operational tests and operating forces**
 - Follow-on testing underway at ATC to evaluate
- **Protective coatings and corrosion control**
 - Identified by operating forces
 - Processes evaluated, corrective actions implemented
 - MARCORSSCOM Corrosion Response Team inspections of fielded vehicles



ITV Outlook

- **Complete follow-on reliability, performance testing at ATC, implement corrective actions**
- **Complete production & fielding in Dec 2012**
- **Transition from CLS to organic support**
 - Complete provisioning, cataloging efforts NLT 2Q FY13
- **Explore operational concepts to continue lightening the MAGTF**
 - Marine Expeditionary Units
 - Special Operations Forces



Marine Corps Transparent Armor Gun Shield – Reducible (MCTAGS-R)

“Program” Status

- **Conducting automotive and ballistic testing to assess capability of Reducible Height-Gunner’s Protection Kit (RH-GPK) to support Marine Expeditionary Units (MEUs)**
 - **Access restricted-height deck spaces aboard amphibious shipping**
 - **Eliminate requirement to remove MCTAGS and store separately during embarkation and deployment**
 - **Allow for both lethal and non-lethal weapon capabilities (mounting and storage)**



MCTAGS-R Issues

- **“Program” has no formal / approved requirement**
 - Current PMO testing supports ongoing **Combat Development & Integration (CD&I) requirement development process**
- **Initial test results demonstrate multiple opportunities for current system design improvements**
 - Reducing mechanism
 - Pintle design
 - Assembly procedures and tools



MCTAGS-R Outlook

- **Aug 2012: Feasibility testing completed**
- **Dec 2012: RH-GPK requirement signed**
- **2Q FY13: Acquisition Strategy approved**
- **4Q FY13: Source selection**
- **2Q FY14: RH-GPK contract award**



PM LTV: Lightening the MAGTF

- **HMMWV**
 - Supporting CD&I assessment of current HMMWV armoring strategy in order to enhance light tactical vehicle lift capabilities
- **ITV**
 - Expanding potential for ITV FoV use throughout Operating Forces
 - Lighter materials for hood, skid plates, roll cage
- **MCTAGS**
 - Testing lighter-weight weapons station offering same protection at reduced weight, improved transportability





Questions & Discussion

