Advanced Planning Briefing to Industry

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Light Tactical Vehicles
(PM LTV)

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Norfolk Waterside Marriott
Norfolk, Virginia
• 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
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
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)
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
  – MARCORSYSCOM 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
“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)
“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