

USMC Panel

“USMC Tactical Wheeled Vehicle Programs”

Panel Members

- ❖ Dr. Thomas Killion: Panel Moderator
Acting Director, Office of Technology, Office of Naval Research (ONR)
- ❖ Mr. Thomas Miller:
PEO Land Systems, USMC Program Manager, MRAP
- ❖ Mr. Steve Pinter:
PEO Land Systems, USMC Program Manager, MHTV
- ❖ Mr. Andrew Rodgers:
PEO Land Systems, USMC Program Manager, LTV
- ❖ Mr. Mark Godfrey:
Combat Development & Integration, USMC Vehicle Capabilities Integration Officer

Program Manager, Mine Resistant Ambush Protected (PM MRAP)

Presentation to:
NDIA Tactical Wheeled
Vehicle Conference,
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Presented by:
Thomas H. Miller
PM MRAP



USMC MRAP Family of Vehicles



Cougar CAT I A1 Saber TOW



Cougar CAT II A2 Ambulance



Cougar CAT II A1 R2C



Cougar CAT I A1



Cougar CAT II A1



M-ATV M1240A1 (UIK) OGPK



Buffalo MK2A2

R2C = Route Reconnaissance
& Clearance

TOW = Tube-launched Optically-tracked
Wire-guided missile

OGPK = Objective Gunner's Protection
Kit (turret)

UIK = Underbody Improvement Kit

UNCLASSIFIED

USMC MRAP Requirements

Vehicle Type	TAMCN	USMC PROCURED	PRIOR ER (1231)	NEW ER (2510)	EXCESS QTY
Cougar Cat I	D00025	1570	401	1350	220
Cougar Cat I TOW	D00040	62	24	58	4
Cougar Cat II*	D00027	589	263	300	289
Cougar Cat II Ambulance	D00023	19	15	19	0
Buffalo Cat III	B00035	77	28	68	9
M-ATV	D00036	1679	490	705	974
CESAS (Cougar Cat II)	A00341	10	10	10	0
MRAP Recovery Vehicles	N/A	15	0	0	15
Totals		4,021	1,231	2,510	1511

* Includes R2C vehicles

ER = Enduring Requirement

TAMCN = Table of Authorized Material Control Number



Top 3 Priorities/Projects



- Reset (depot maintenance) of 2017 MRAPs (Cougars and M-ATVs)
 - Coordinating with USMC Logistics Command (Albany, GA)
 - Mixture of organic depot (Albany, Barstow, Red River) and Commercial
 - Additional Cougar reset competition expected in FY16
- Installation of Cougar “Block I” mod kits
 - Force protection upgrades – Seat Survivability and Egress
 - Planning competitive RFP in FY16 for Egress kit installations
- Development of ECPs to address sustainment issues (safety, usability, maintainability, cost savings, etc.)
 - Cougar floor and firewall upgrades for improved blast protection
 - M-ATV idling fuel economy improvement
 - Buffalo Emergency Egress Lighting Control Box & Electrical System



Program Manager Light Tactical Vehicles

18,500 HMMWV ECV Fleet
Right sizing to ~13,000 by FY23



ITV Vehicle Fleet
266 Light Strike Variants
and 145 Prime Movers



5,500 JLTVs
Contract award
4th Qtr FY15



Light Tactical Trailers



- All Terrain Vehicles (ATVs)
- JLTV Trailers
- ITV-Replacement



"USMC Tactical Wheeled Vehicle Program Requirements"

Mr. Mark Godfrey
Transportation Branch Head
Logistics Integration Division
Capabilities Development Directorate
HQMC, Combat Development & Integration



Concept Based Requirements



Marine Corps Concepts such as...

- ✓ Ship-to-Objective Maneuver (STOM)
- ✓ Operational Maneuver From the Sea (OMFTS)
- ✓ Seabasing
...are now being executed

So What's Next?...

Expeditionary Force 21

- ✓ Refocus on our expeditionary culture
- ✓ Prepared for Today's Crisis, with Today's Force, Today!
- ✓ "Prepared to do the same with less"

Expeditionary Force 21

Attributes

Expeditionary Force In "Readiness"
Forward Deployed Crisis Response

Naval Force

Sea as Maneuver Space/ Naval Integration
Disaggregated Operations/Regional SA

Middleweight Force

Expeditionary by Design
Scalable and Tailorable

Forcible Entry in Depth

Aggregates Amphibious Ships and MPF
Accepts increased MCO Risk

Leading Edge of Joint Force

JTF-Enabled Standing MEB CEs

Integrated Combined Arms Force

Trained as a Fully Integrated Force

Modern Force

Leverages Technology and ISR
Alternative Naval Platforms

Force Biased for Action

Prioritizes GCC Crisis Response Support
New Normal; Fight and Win Tonight



Right Force, Right Place, At The Right Time











Ground Combat & Tactical Vehicle Modernization and Sustainment







Modernization of assault amphibian capability remains the Marine Corps' highest priority.

- GCTVS favors selective modernization/upgrade and limited sustainment of legacy vehicles

Sustainment

ITV #411		LAV #925	
HMMWV ECV & A2 #17,860		AAV #1,058	
MTRV #8,750		MRAP #2,510	
LVSr #2,000		M1A1 #371	

Selected Upgrades & Modernization

ACV #694 IOC: 2020 FOC: 2028	
AAV SUP #392 IOC: 2019 FOC: 2023	
ITV #411 IOC: ~2021 FOC: ~2026	
JLTV #5,500 IOC: 2018 FOC: 2022	

- HMMWV replacement by the JLTV program is de-conflicted to accommodate ACV procurement. This approach enables a sequential modernization of the two most pressing gaps within the GCTV portfolio.



Strategy Challenges



- Rising procurement and sustainment costs. Combat vehicles in the current GCTV portfolio require increased funding to address obsolescence and sustainment issues to extend end of service life dates.
- Each vehicle in the GCTV portfolio will require upgrade or replacement at the end of service life. Most vehicles will reach the end of service life between 2020 and 2035, when portfolio modernization efforts in JLTV and ACV are concentrated.

QUESTIONS ?

BACKUP CHARTS