PM Light Tactical Vehicles

MISSION

The lifecycle management of light battlefield distribution systems enabling the Modular, Joint and Expeditionary Ground Forces.

Distribution Statement A: Approved for public release: Distribution is unlimited

January 2010

Product Manager
Mr. Dennis Haag
Purpose: HMMWV Updates

Agenda:

- Opportunities for Business
- HMMWV Background
- HMMWV Fleet Overview
- HMMWV Evolution
- HMMWV Production & Improvements
- HMMWV Recap
- Light Tactical Trailer Production
- Challenges
- HMMWV Path Forward
Full & Open Competition on HMMWV UAH RECAP

- RFI released in December 2009
- Additional RFIs as material is developed.
- Goal is RFP release in March 2010 for ~60K vehicle fleet.

Reduction of Sole Source Parts

- Would like 3 suppliers for every part.
- Continued emphasis on getting more suppliers qualified.

Help from Industry

- Armor Weight Reduction
- Fire Suppression
- Survivability
- Reliability & Safety Upgrades
ACAT 1C Program

Milestone C – 1983

As of 30 Dec 09, 162,589 trucks and 34,845 trailers have been fielded

Contract Status:
- Completing deliveries on 2009 FY Contract by Dec 2010
- Follow on Production Contract
- Competitive RECAP

We will reach the Army AAO shortly (166,154 HMMWVs & 44,275 LTTs)
- Army will have greatly reduced demands for new production.
HMMWV Evolution

A0 Series (1984-93)
- 6.2L Diesel Engine
- 3 Spd Transmission
- 2,500 – 3,632 lb. Payload
- GVW: 7,700 lb.

A1 Series (1991-95)
- Improved Driveline
- Improved Suspension
- 2,500 – 3,632 lb. Payload
- GVW: 10,000 lb.

A2 Series (1994-Present)
- 6.5L Diesel Engine
- 4 Spd Electronic Trans
- 3,520 - 4,400 lb. Payload
- GVW: 10,300 lb.

ECV (1993-Present)
- 6.5L Turbo Diesel Engine
- Suspension Upgrade
- Armor Capable
- 1,800 – 5,100 lb. Payload
- GVW: 12,100 lb.
- Current Op: >16,500 lb.

Payload vs. Performance Tradeoffs

ECV = Expanded Capacity Vehicle

RECAP
Payload: TBD
GVW: TBD

Block upgrades to increase payload and versatility

1984 – Present
Payload vs. Performance Tradeoffs

Current Op: >16,500 lb.
HMMWV Production

- Fielding to CONUS after SWA Requirement filled: 162,589 fielded to date (CONUS)
- Production rate: 64/day average
- Introduction model: M1167 (TOW Variant)
- Reliability & Safety Enhancements, to include: Armor coverage, Load range E wheel/tire assembly, Electrical upgrades, Lightweight doors, Suspension upgrades, LED lights, Mending Plate improvements, Fire Suppression System upgrades......
Reliability Enhancements
Vehicle (REV)

MAJOR CHASSIS MODS SINCE 2005

Key:
- REV A
- REV B
- ASK
- FK 7 Mod
- REV C (Contractor Proposed)

- REAR DIFFERENTIAL COOLER
- IMPROVED REAR BUMPER & SUPPORT BRACKETS
- REAR BRAKE LINE MOD
- COOL PACK
- NEW HALF SHAFTS
- AIR LIFT BRACKETS
- ENHANCED STEERING GEOMETRY
- POWER STEERING PUMP
- SHEPPARD STEERING GEAR
- GEARED FAN DRIVE (GFD)
- RADIATOR, SHROUD & OIL COOLER
- "WHEELS - 24 bolt"
- "TIRES -- Goodyear"
- "M1114 SPRINGS"
- "16,000K Springs"

- PARKING BRAKE
  Dedicated park brake system, for improved grade parking performance

- * 3-PIECE FRAME RAILS IMPROVEMENT
- * PITMAN ARM
- * IDLER ARM
- * CENTER LINK
- * CROSS BRACE ASSEMBLY

- * BODY HARNESS
- * CROSS MEMBERS
- REVISED CROSS MEMBER SUPPORTS (Material Change)

- SHOCK ABSORBERS
- CONTROL ARMS
- Enhanced bushings & Ball joints
- MODIFIED RIGHT RAIL
- For Idler Arm Mount
- REVISED IDLER ARM MOUNT
- SERVICE BRAKE
- Improved GVW Quick Pad Removal

- REAR DIFFERENTIAL
- Improved cooling
- UPPER CONTROL ARMS SPRING SEATS (Front and Rear)

THE ARMY TRUCK TEAM ~ "You Call, We Haul"
Program Intent: Extend useful life of fleet at fraction of new production cost

Current Program (Since FY04) – Convert early models to M1097R1 and M1025R1 models respectively providing:

- Models Eligible: M998/A1, M1025/A1, M1026/A1, M1037, M1038/A1, M1097/A1
- more payload capacity (drive-train and suspension upgrades)
- extending economic useful life by 15 years

Executed at

- Red River Army Depot - 21,895 complete to date
- Letterkenny Army Depot - 18,227 complete to date
- Maine Military Authority - 1,519 complete to date

Total Recap Vehicles Produced - 41,641; Handed-Off (fielded) - 40,167

Un-armored RECAP ends FY10 due to meeting goal of 45K systems, with no future funding

- LEAD May / June FY10
- MMA and RRAD Sep FY10
HMMWV Fleet Path Forward

Future: Competitive RECAP UAH M-ECV
# HMMWV Model Evolution

## TOW Carrier
- M966
- M1036
- M1045
- M1046

## Armaments Carrier
- M1025
- M1026
- M1043
- M1044

## Cargo Carrier
- M998
- M1038
- M1097

## Shelter Carrier
- M1037
- M1042

## Ambulances
- M996
- M997
- M1035

## A0
- M966
- M1045A1

## A1
- M966A1
- M1045A1

## A2
- XMM109
- M1025A2
- M1043A2
- M1045A2
- M1121
- M1123

## ECV (Enhanced Capacity Vehicle)
- M1167

## MECV Recap
- M1167R1
- M1151R1
- M1097R1
- M1165R1
- M1152R1
- M997A3

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THE ARMY TRUCK TEAM - "You Call, We Haul!"
Up-armed HMMWVs (UAH) RECAP Pilot Program – Converts unarmored production configuration models with enhanced reliability components to UAH HMMWV’s

- Conducting UAH RECAP / Modernization pilots at RRAD and LEAD 2QFY09
- 2 each M1113’s and M1097’s converted to assess viability of each to carry Armor

Competitive UAH HMMWV RECAP Modernization Program planned for FY11 and beyond
HMMWV ECV RECAP – MODERNIZATION
RFI/RFP Milestones

- Initial Request For Information (RFI) Released - 8 Jan 10
- RFI update with Automotive – Tank Purchase Description (ATPD) and Survivability Specification (classified) - 15 Jan 10
- RFI Close - 22 Feb 10
- DRAFT Request for Proposal (RFP) – early Mar 10
- Final Request for Proposal – 31 Mar 10
- Contract Award – 4th Quarter FY10
Over 34,845 LTTs fielded to date
New production contracts awarded in Aug 08 (2 Contractor awards)
Production: 1600 / month combined