PM Heavy Tactical Vehicle

Product Manager: LTC Allen Johnson

MISSION

The Life Cycle Management of Heavy Tactical Wheeled Vehicles Fleets

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

“GO HEAVY or GO Home!”
Agenda

- Fleet Modernization
- Future Tech Insertion
- Upcoming Competitive Procurements
Heavy Tactical Vehicles
21 Products, 11 OEMs, $2.25B

- M977 – Heavy Expanded Mobility Tactical Truck (HEMTT) Cargo
- M985 – HEMTT Cargo w/MHC
- M978 – HEMTT Tanker, 2500 gal
- M983 – HEMTT Tractor
- M984 – HEMTT Wrecker
- M1120 – HEMTT Load Handling System (LHS)
- HEMTT A3 – Electric Hybrid Tech Demonstrator
- HEMTT A4 – LTAS and Improved Performance
- HEMTT M983 Tractor Light Equipment Transporter (LET)
- HEMTT RECAP

- M1074 – Palletized Load System (PLS) w/MHC
- M1075 – PLS Truck
- M1076 – PLS Trailer
- PLS A1 – LTAS and Improved Performance

- M1070 – Heavy Equipment Transporter System (HETS)
- M1000 – HETS Semi-trailer
- HETS A1– Improved Performance

- M1142 – Tactical Firefighting Truck (TFFT)
- M1158 – HEMTT-based Water Tender (HEWATT)

- Enhanced Container Handling Unit (E-CHU)
- M3/M3 A1 – Container Roll On/Off Platform (CROP)
- M1, M1077/M1077 A1 – Flat rack

- M915 Line Haul Tractor
- M915 A5 – LTAS and Improved Performance
- M916 – Light Equipment Transporter (LET)
- M917 – 20 Ton Dump

- Fifth Wheel Towing Device (FWTD)
- M870 A3 – 40 ton Low Boy Trailer
- M871 A3 – 22.5 ton Flatbed Trailer
- M872 A4 – 34 ton Flatbed Trailer
- M967 A2 – 5000 Gal Bulkhaul Tanker
- M969 A3 – 5000 Gal Refueler Tanker
- M989 A1 – Heavy Expanded Mobility Ammunition Trailer (HEMAT)

AOR
- Interim Stryker Recovery System
- External Fire Suppression
- Armor
- LED Headlights
- Improved Seats
- Remote Control Mirrors

“GO HEAVY or GO Home!”
HTV Fleet Modernization

HEMTT A4  In OEF

PLS A1  TC/MR  JAN 2010

HETS A1  In Test  JUL 2010
  Began Test  MAY 2009

M915 A5  TC/MR  MAR 2010

Improvements: Powertrain, Suspensions, Data Bus, LTAS, ABS & Traction Control, Climate Control, IETMs, Commonality

Rebalancing performance protection, and payload

“GO HEAVY or GO Home!”
Today’s HEMTT Fleet

Basic HEMTT
- AoA Cab
- 8V92 MUI Engine
- HT 740 Transmission
- Hendrickson Suspension

HEMTT A2
- AoA Cab
- 445HP 8V92 DDEC IV Engine
- Allison Electronic Transmission
- Corrosion Protection Upgrades

HEMTT A4
- B-Kit Ready
- Integrated under Cab Protection (A Cab)
- 500HP CAT C-15
- ABS & Traction Control
- Air Ride Suspension
- Updated Electrical System
- Common Cab / B-Kit with PLS A1
- Allows Survivability Growth to meet LTPS Standards

1985 - 2001
2002 - 2007
2008

12,000+ trucks not B-Kit Ready

Modernize through RECAP

“GO HEAVY or GO Home!”
HEMTT FLEET MODERNIZATION

“GO HEAVY or GO Home!”

HEMTT A0 average age is 20 years today
B-Kit / LTPS
Growth with A4

New Prod A4
RECAP A0-A4
HEMTT A2
HEMTT A0
Established in 2001 by the VSCA directive to lower O&S costs of HEMTT fleet with emphasis on integrating affordable technology upgrades

- Upgrades fleet to B-Kit Ready model for added crew protection
- Inducts old, worn out HEMTT’s and produces a new vehicle with the same configuration as new production at less cost

Dependent upon availability of core “seed”

Converts A0 / A2 to B-Kit capable A4

“GO HEAVY or GO Home!”
Today’s M1075 PLS Fleet

Basic PLS
- AoA
- 500 HP 8V92 DDEC III/IV
- CLT 755 Transmission
- Hendrickson Suspension
- Air Transportable on C141, C5, C17

PLS A1
- B-Kit Ready
- 600 HP CAT C-15
- Independent Front Suspension
- Updated Electrical System
- ABS & Traction Control
- Common Cab / B-Kit with HEMTT A4
- Allows Survivability Growth to meet LTPS Standards

PLS RECAP Way Ahead
- PLS basic inducted, returned as PLS A1
- RECAP < Cost of New Production w/Tech Insertion
- Currently funded FY10-12 only

1994 - 2009

2010

2010-2025

Modernize through RECAP

“GO HEAVY or GO Home!”
“GO HEAVY or GO Home!”

**PLS FLEET MODERNIZATION**

- **Requirement**
- **B-Kit / LTPS Growth with A1**

- **PLS A0**
- **PLS A1 RECAP**
- **PLS A1 New**
Today’s M1070 HETS Fleet

Basic HETS
- 8V92 DDEC III/IV Engine
- CLT 754 Transmission
- Hendrickson Suspension
- Air Transportable on C141, C5, C17

HETS A1
- Modern Powertrain
- Upgraded Front Suspension
- Updated Electrical System
- ABS & Traction Control
- Production Climate Control
- Chassis Capacity for Protection Growth to LTPS Standards
- Maintenance Enhancements to Trailer

M1070
- 500 hp Detroit Diesel 8V92TA
- Allison CLT-754
- Oshkosh 55000, Two Speed
- 21,500 lbs
- Shepard hydraulic front gear
- 11,500 lbs rated
- A/C Kit available
- 145 amp
- No

M1070A1
- 700 hp CAT C-18
- Allison 4600SP
- Oshkosh 30000, Single Speed
- 32,000 lbs
- Dual front gears
- 16,000 lb rated
- A/C
- 400 amp
- Yes

Divest older HETS and procure A1
"GO HEAVY or GO Home!"
HET Fleet

“GO HEAVY or GO Home!”
Today’s M915 Line Haul Fleet

Divest older models

M915 A0
- AM General
- CAT13 Speed semi-automatic transmission
- Cummins Big Cam 1 engine

M915 A1
- AM General
- Allison fully automatic transmission
- Cummins Big Cam 3 engine

M915 A2
- Freightliner
- ABS system

M915 A3
- Freightliner
- Electronically controlled Detroit Diesel Series 60 engine,
- Allison World transmission,
- Freightliner’s ‘TufTrac’ off-road suspension,
- Air Conditioning
- collision warning system

M915 A4
- Retrofit Program with Freightliner/Nat’l Guard
- Enhances A0-A2’s with A3 system upgrades

M915 A5
- 500 HP DD-CE 6V53 engine
- Extended Cab 10” wider 34” deeper
- A-Cab / B-kit design
- 20K Front axle increase/rear suspension increase for armor weight
- 7 Auxiliary power connections
- Air tap added to allow air tool use
- VORAD collision avoidance system
- Dual 60 gal. tanks adding range


2009

Divest older models and procure A5

“GO HEAVY or GO Home!”
HTV Fleet Overview
Line Haul Systems

M870A3
80% of fleet > 20 years
23% of fleet > 34 years
FY09-12 Procure 1,326

M871A3
47% of fleet > 20 years
21% of fleet > 30 years
FY09-12 Procure 440

M967/M969 Tankers

M976 at MTOE
63% of fleet > 25 years

M979 at MTOE
84% of fleet > 25 years

Older Fleets, Funding Stops, RESET!!

"GO HEAVY or GO Home!"
# PM HTV Competitive Contract Overview

## Draft ATPD Released

<table>
<thead>
<tr>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun</td>
<td>Jul</td>
<td>Aug</td>
<td>Sep</td>
</tr>
<tr>
<td>18 Nov</td>
<td>13 Jan</td>
<td>19 Feb</td>
<td>22 Mar</td>
</tr>
</tbody>
</table>

## M872

<table>
<thead>
<tr>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun</td>
<td>Jul</td>
<td>Aug</td>
<td>Sep</td>
</tr>
<tr>
<td>18 Nov</td>
<td>13 Jan</td>
<td>19 Feb</td>
<td>22 Mar</td>
</tr>
</tbody>
</table>

## HEMTT, PLS & HET

<table>
<thead>
<tr>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun</td>
<td>Jul</td>
<td>Aug</td>
<td>Sep</td>
</tr>
<tr>
<td>1 Nov</td>
<td>5 Jan</td>
<td>1 Mar</td>
<td>1 Apr</td>
</tr>
</tbody>
</table>

"GO HEAVY or GO Home!"
PM’s Last Word

Two Customers

The Warfighter + The Taxpayer

We Must Ensure Outstanding Equipment Goes to the Warfighter

“GO HEAVY or GO Home!”