TWV Conference
“Sustaining the Joint Force/Improving the Future Force”

MG Mike Lenaers
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Unclassified
THE HMMWV ... From Hummer to Groaner

“HUMMER”
M998 HMMWV 4x4 High-Mobility Multipurpose Wheeled Vehicle

“Groaner”
M1151A1 with the Objective Frag Kit 5

Growth in the Number of Up Armored HMMWVs

-3000 3000 9000 15000 21000
2001 2002 2003 2004 2005 2006

Growth in the Weight of Up Armored HMMWVs

Base HMMWV M998
M1114 Base
M1114 / M1151 with Frag Kit 5
M1114 / M1151 with Frag Kit 5 & GPK
M1114 / M1151 Actual Weight Measured in Theater (Max) with Frag Kit 5 & GPK

Mission Creep

6,390 POUNDS ADDED

... THAT’S OVER 2/3 OF AN ORIGINAL HMMWV

Unclassified
Mission Creep on All Vehicles

- Cyclone
- Mission Creep on All Vehicles
- Mine Roller Kit
- Gunner Shield
- Gyrocam
- RHINO II IED
- Interrogation Arm
- Unclassified
Made for OIF / OEF?

Works great here …

But what about here?
Failures

UAH – Frame Cracks

FMTV – Frame Cracks (LSAC)

HEMTT – Cab Cracks (AoA)

5-ton – Cab / Firewall Cracks (AoA)

M915 – Cab Cracks (AoA)

Firewall Crack

Rt. floor board stress crack

Unclassified
Refurbishing AoA Vehicles in SWA

<table>
<thead>
<tr>
<th>Tactical Vehicles</th>
<th>Desired Annual Refurbishment Rates</th>
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<td><strong>HMMWV Vehicles</strong></td>
<td>- Desired Annual Refurbishment Rates:</td>
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<td>- 8.5% of fleet per year (1,800 HMMWVs per year)</td>
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<td><strong>Heavy Tactical Vehicles</strong> * **</td>
<td>- Desired Annual Refurbishment Rates:</td>
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<td>- HET system (M1070 Tractor and M1000 Trailer): 50% of Fleet/year (236</td>
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<td>HET systems/year)</td>
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<td>- HEMTT and PLS: 25% of Fleet per year (741 HEMTTs and 387 PLS' per</td>
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<td>year)</td>
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<td><strong>Medium Tactical Vehicles</strong> * **</td>
<td>- Desired Annual Refurbishment Rates:</td>
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<td>- FMTV: 25% of fleet per year (595 FMTVs per year)</td>
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<td>- M939: 25% of fleet per year (310 M939s per year)</td>
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<td><strong>Line Haul Tactical Vehicles</strong> * **</td>
<td>- Desired Annual Refurbishment Rates:</td>
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<td>- M915s: 50% of fleet per year (686 vehicles per year)</td>
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* Estimated: 70% Firm Fixed Price, 30% Time and Materials

** Three Request for Proposals and Three separate Four Year IDIQ contracts
Keeping the Balance

Protection

M1114
W / FRAG
Kit 5 & GPK

Performance Payload

Unclassified
Keeping the Balance

Protection

M1114 W/ FRAG Kit 5 & GPK

Performance Payload

Unclassified
We will need to RESET Armored Vehicles upon return

- Can we go to a Long Term Armor Strategy during RESET?
- What is the Cost?
- Will we have the dollars?

- A Kit = Frame, Attachments, Hard to Install Armor, commo wiring, mounting points for Gunner’s Protection Kit + will need non-Armor panels and glass (Install during RESET vs old cab)

- B Kit = Armor Panels and Armor Glass
ARFORGEN
REQUIRES RAPID RESET BETWEEN CYCLES

- Align Soldier assignments with a unit’s operational cycle (~36 months)
- Soldiers arrive, train, deploy, and depart together
- Improves cohesion and training effectiveness

CHALLENGES:
- Very short RESET window
- Soldiers not available
- Keep costs reasonable
  - Super – Service
  - Mandatory Parts Replacement
- Touch Units Once in 3 Years

Lifecycle Manning (Tactical Units)

ARFORGEN
Creating Predictably Ready Forces

70 Brigade Combat Teams
AC RC 42 + 28
CREATE A FLOW OVER TIME WITH 83% AC BCTs BEING READY
ARFORGEN
Reset Support... a Continuing Requirement

Opportunities:
14 AC + 5 RC BRIGADES
RESET EACH YEAR

Will provide predictability for RESET parts

Where are the Dollars? Parts or Labor?

Operating and Support Cost 72%

Disposal Cost

Production Cost 21%

R&D Cost 7%

21%

508x609
PM HBCT Condition Based Maintenance (CBM+)
Condition Based Readiness Analysis (CoBRA)

- Functional data from electronic control modules
- Platform sensors and Data
- Automatic data collection, storage and transmission (transparent to the unit)
- Unique item tracking to key components

- Maintenance and Logistics analytical tools and reports
- Correlate Maintenance actions with data collected
- Risk reduction with Fort Knox Fielding
- Establishes the foundation for the LCMC CBM+ Capability

Vehicle Configurations

FY06 Effort: 
- Funded by $7M RDTE Bill + $3.2M Congressional Add
- Gets existing data off of data bus for analysis
- Completion of that analysis is unfunded - $5M (FY08) Balance of original scope
“We appreciate your advice”