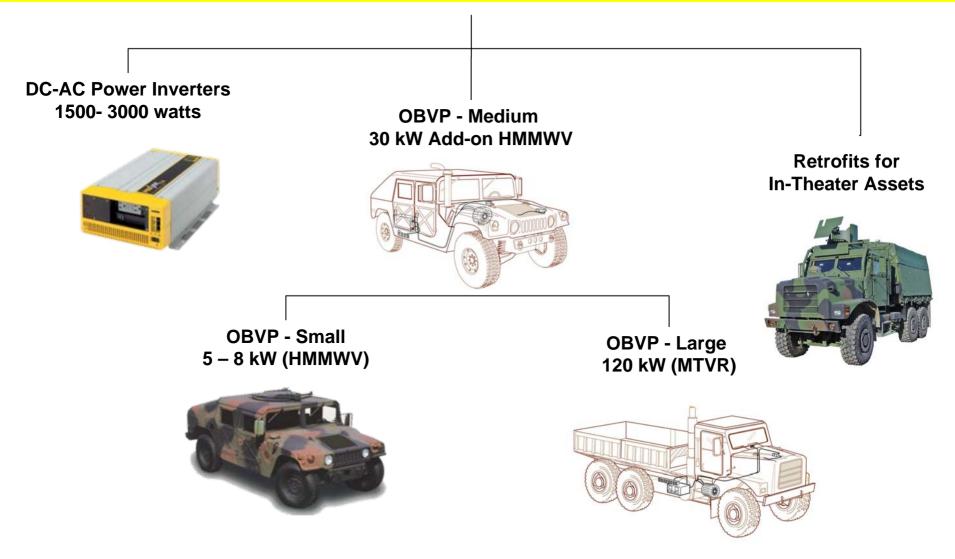
Marine Corps On-Board Vehicle Power Systems for Legacy Military Vehicles



Joint Service Power Exposition 2007



On-Board Vehicle Power Systems





Vehicle Power Inverters



- Requirement for DC-AC Power Inverter
 - 18-32 VDC input
 - 120 VAC, single phase output
 - 1800 watts minimum output
 - Easily installed
 - Readily available / commercial based item
- Market Research and testing conducted
- GSA schedule showed adequate competition
- Solicited, competed, awarded in 2007
- Multi-year contract awarded to IRIS QP-1800
 - Inverter
 - Ruggedized carrying case
 - NATO cable connector
 - 5600 articles planned



On-Board Vehicle Power - Small

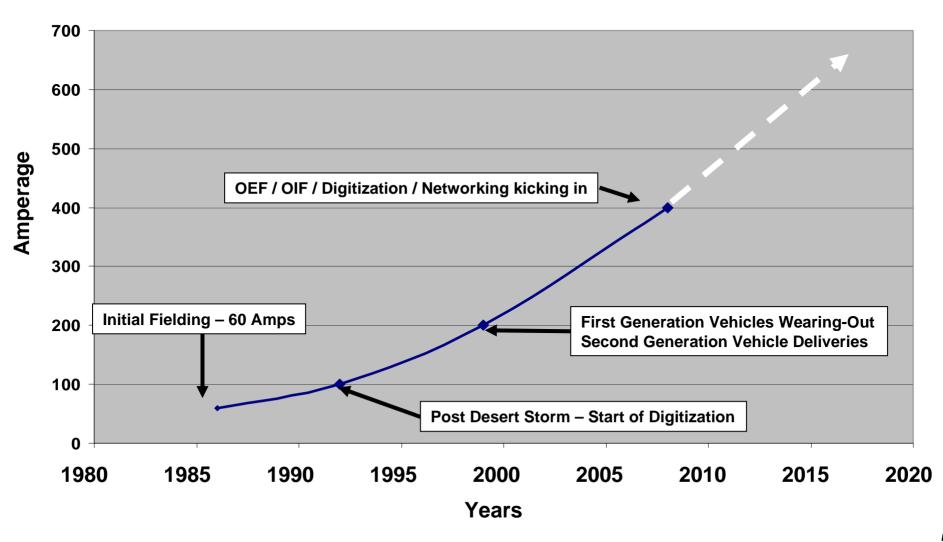




- Up to 400 Amps at 28 VDC needed
- Army has lead on retrofit kit
 - Vehicles in theater
 - DC power needs
- USMC will procure kits in 2007/2008
 - M1114, M1151, M1152 configurations
- Continuing to investigate / test inverters at higher power levels for AC power needs
- Future USMC vehicles will be procured with 400 Amp capacity (LVSR, MRAP)



Alternator Amperage Rating on HMMWV at 28 VDC





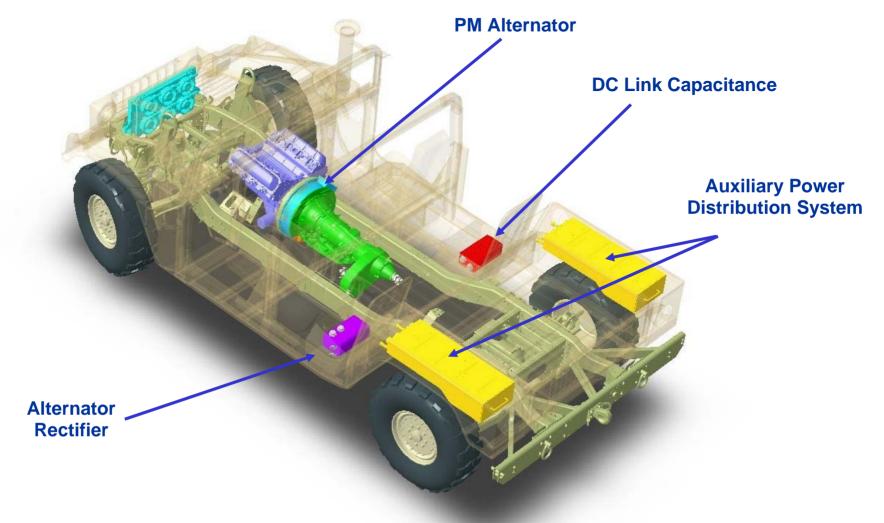
On-Board Vehicle Power Medium & Large Systems

- Technology Demonstrations funded by Office of Naval Research
- HMMWV based system:
 - 30 kilowatts stationary / 10 kilowatts on-the-move
 - Will be mounted on HMMWV M1123
 - Power output at 120/208 VAC, 60 hz
 - Two vehicles can be connected in parallel (60 kW output)
 - Can synchronize to MEP-805B generator
- MTVR based system:
 - 120 kilowatts stationary / 20 kilowatts on-the-move / 3 kW transition
 - Mk 23 Truck
 - Power output at 120/208 VAC, 60 hz
 - Can synchronize to MEP-807A generator
- Vehicles will be delivered in 2007 for evaluation



On-Board Vehicle Power - Medium

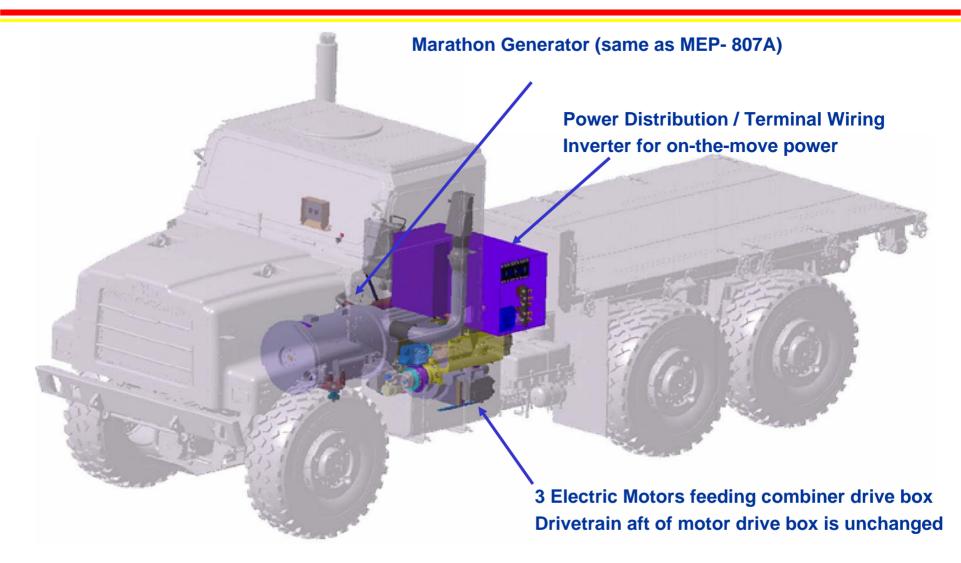
DRS Technologies Selected for Hardware Fabrication Phase





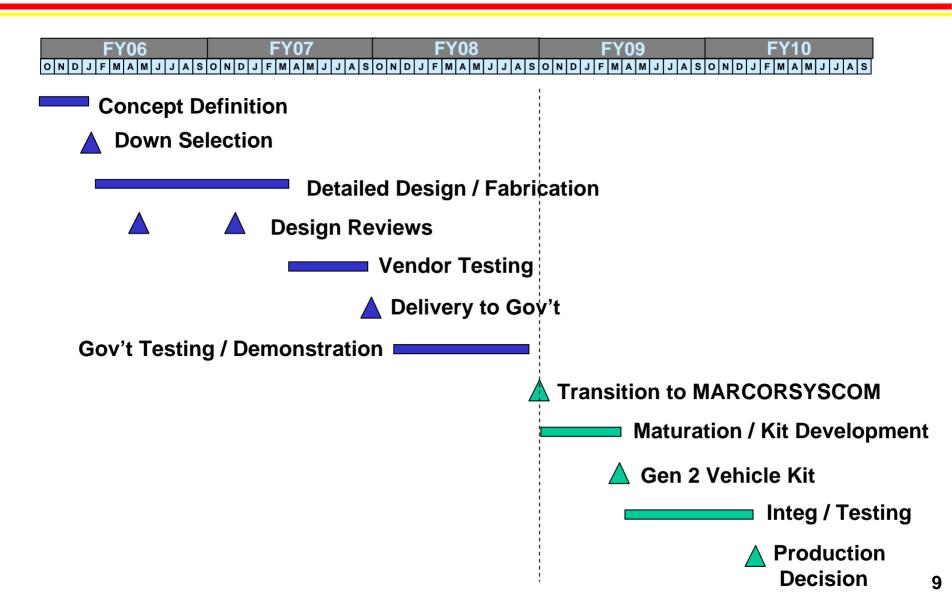
On-Board Vehicle Power - Large

OshKosh Selected for Hardware Fabrication Phase





OBVP Schedule (HMMWV & MTVR)



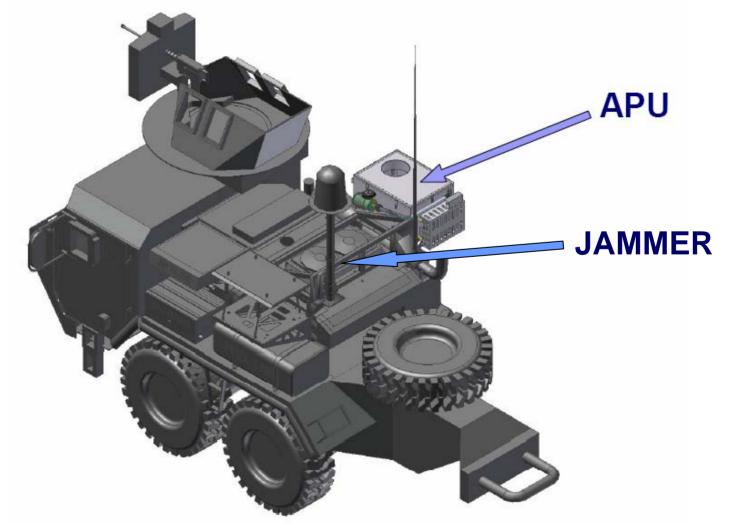


On-Board Vehicle Power Unique Applications

- Power community continually requested to support other platforms
 - Tanks
 - Logistics Vehicle System
 - HIMARS
 - Light Armored Vehicle
 - Lightweight 155 Howitzer
 - Amphibious Assault Vehicle
 - Force Protection / Military Police
- Continued need for power for Jammers, Silent Watch, stationary applications
- Necessary when host vehicle incapable of power load, or host vehicle can not be retrofitted with larger alternator
- 28 VDC Gensets needed (various sizes, ratings, restrictions)



On-Board Vehicle Power - Unique



Watch FedBizOpps for solicitations