

Department of Defense  
Project Manager Mobile Electric Power (PM MEP)



# Advanced Medium Mobile Power Sources (AMMPS)

## Program Overview

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Lead Engineer

# Advanced Medium Mobile Power Sources (AMMPS)



**The next generation of Medium Power Sources**

# Advanced Medium Mobile Power Sources (AMMPS)

## AMMPS PRODUCT DESIGN

- AMMPS is third generation of Mobile Electric Power Generating Sources
- Replaces Tactical Quiet Generators (TQG)
- Employs advanced technologies to
  - Enhance power generation capability
  - Improve engine control to achieve improved fuel efficiency
  - Increase system reliability
  - Reduce system size and weight
  - Increase survivability for military applications
  - Reduce total ownership costs
- Electronically and digitally controlled
- Signal suppressed & EMI protected
- Capable of starting and operating on
  - Common fuels (diesel / JP-8) in extreme climatic and tactical military environments
- EPA current tier certified engines

In a wartime scenario, a 15kW AMMPS set pays for itself in 10 months of fuel savings



TQG = Tactical Quiet Generator  
EMI = Electromagnetic Interference  
EPA = Environmental Protection Agency

# AMMPS vs. TQG Comparison

<u>Capability</u>	<u>AMMPS</u>	<u>TQG</u>
Fuel Consumption	1.23g/h average; >15% improvement	1.506 g/h average
Operating Temp.	- 50 to 135 F	-50 to 120 F
Weight	> 10% improvement	
Noise	70 - 72 dBA	68 - 72 dBA
NATO Compatability	All operate at 50Hz	15-60kW operate at 50Hz
Paralleling	ALL	15-60kW only
> two set paralleling	YES	NO
PU/PP Configurations	2 additional	
Reliability	750 hrs MTBEFF	500-600 hrs MTBEFF
ETM/IETM	YES	NO
Parts Commonality	30% improvement	
EPA Compliance	YES	NO

TQG = Tactical Quiet Generator

AMMPS = Advanced Medium Mobile Power Sources

PU/PP Power Units and Power Plants

EPA = Environmental Protection Agency

ETM= Electronic Technical Manual

IETM = Interactive Electronic Technical Manual

MBTEFF = Mean Time Between Essential Function Failure



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## CURRENT STATUS

- Hardware Deliveries for Logistics Support
  - All 10 AMMPS pre-production models delivered and passed Pre-production tests with minor discrepancies
  - Technical Manuals and Training Support Packages in development
- Developmental (DT) and Operational Testing (OT)
  - 120 sets for various tests delivered between July and November 09
  - Developmental testing began July 09 at Aberdeen Test Center
  - Operational Testing scheduled to occur 2QTR FY10
- Production
  - Production contract award anticipated 1Qtr FY11
  - Fielding begins 3QTR FY11

# Program Schedule

