Advanced Medium Mobile Power Sources (AMMPS)
Program Overview
Advanced Medium Mobile Power Sources (AMMPS)

The next generation of Medium Power Sources
**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**
<table>
<thead>
<tr>
<th>Capability</th>
<th>AMMPS</th>
<th>TQG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Consumption</td>
<td>1.23g/h average; &gt;15% improvement</td>
<td>1.506 g/h average</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-50 to 135 F</td>
<td>-50 to 120 F</td>
</tr>
<tr>
<td>Weight</td>
<td>&gt; 10% improvement</td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>70 - 72 dBA</td>
<td>68 - 72 dBA</td>
</tr>
<tr>
<td>NATO Compatibility</td>
<td>All operate at 50Hz</td>
<td>15-60kW operate at 50Hz</td>
</tr>
<tr>
<td>Paralleling</td>
<td>ALL</td>
<td>15-60kW only</td>
</tr>
<tr>
<td>&gt; two set paralleling</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>PU/PP Configurations</td>
<td>2 additional</td>
<td></td>
</tr>
<tr>
<td>Reliability</td>
<td>750 hrs MTBEFF</td>
<td>500-600 hrs MTBEFF</td>
</tr>
<tr>
<td>ETM/IETM</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Parts Commonality</td>
<td>30% improvement</td>
<td></td>
</tr>
<tr>
<td>EPA Compliance</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

TQG = Tactical Quiet Generator  
AMMPS = Advanced Medium Mobile Power Sources  
PU/PP = Power Units and Power Plants  
EPA = Environmental Protection Agency  
EPA = Environmental Protection Agency  
ETM = Electronic Technical Manual  
IETM = Interactive Electronic Technical Manual  
MBTEFF = Mean Time Between Essential Function Failure
Advanced Medium Mobile Power Sources (AMMPS)

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
AMMPS
   PHASE II Award
   Design, Build Pre-production Models
   DT / OT
   MSC, Type Class., Material Release
   PHASE III
   Fielding
   New Contract Award
   Re-buy

FY 08 FY 09 FY 10 FY 11 FY 12 FY 13 FY 14 FY 15 FY 16

DEVELOPMENT
TEST
PRODUCTION
FIELDING

FIELDING

PRODUCTION