

Tactical Electric Power (TEP)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides a standardized family of tactical electric power sources to the DoD in accordance with DoDD 4120.11.

DESCRIPTION

The Tactical Electric Power (TEP) program consists of a variety of generator set sizes. Small generators include 2kW Military Tactical Generators (MTG), 3kW Tactical Quiet Generators (TQG), and Small Tactical Electric Power (STEP). Medium generators include 5, 10, 15, 30 and 60kW TQGs, Advanced Medium Mobile Power Sources* (AMMPS), and trailer-mounted Power Units and Power Plants (PU/PP). Large generators include 100-200kW TQGs, Large Advanced Mobile Power Sources (LAMPS); 840kW Deployable Power Generation and Distribution System (DPGDS); and Power Distribution: Power Distribution Illumination

System Electrical (PDISE) – microgrid Intelligent Power Management and Distribution System (IPMDS).

* The AMMPS is the third generation of mobile electric power generation systems, which will replace the Tactical Quiet Generators (TQG) over time.

Tactical Electric Power Systems offer:

- Maximize fuel efficiency; diesel/JP8 based, eliminating gasoline on battlefield
- Increased reliability (750 hours mean time between failure), maintainability, and transportability via skid- or trailer-mount
- Improved sustainability, operating at rated loads in all military environments
- Minimized weight and size while meeting all user requirements with military ruggedized commercial components
- Reduced infrared signature and noise (less than 70 decibels at seven meters)
- Survivability in chemical, biological, and nuclear environments
- Advanced Technology, including

digital controls and permanent magnet alternators

- A standard DoD military tactical generator fleet that meets power generation and conditioning standards in accordance with Military Standards-1332
- Man-portability with 2kW MTG and 3kW TQG

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- Continued production and/or fielding the following systems: 2kW MTG, 3kW TQG, 5kW TQG, 10kW TQG, 15kW TQG, 30kW TQG, 60kW TQG, 100kW TQG; 5kW AMMPS, 10kW AMMPS, 15kW AMMPS, 30kW AMMPS, 60kW AMMPS, and the Power Distribution Illumination System Electrical (PDISE)
- **4QFY12:** 3kW TQG Re-procurement Contract Awarded
- **4QFY12:** Large Advanced Mobile Power Sources (LAMPS) Contract Award for Engineering and Manufacturing Development (EMD)

PROJECTED ACTIVITIES

- **1QFY13-3QFY13:** Power Distribution Illumination System Electrical (PDISE) Re-procurement
- **FY13-FY15:** Continue production and fielding of Advanced Medium Mobile Power Sources (AMMPs), 3kW TQG, 100kW TQG, and Power Distribution Illumination System Electrical (PDISE)

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Tactical Electric Power (TEP)

FOREIGN MILITARY SALES

Tactical Quiet Generators (TQGs) have been purchased by 38 countries

CONTRACTORS

2kW MTG:

Dewey Electronics (Oakland, NJ)

3kW, 5kW, 10kW, 15kW, 100kW, and 200kW TQG:

DRS Fermont (Bridgeport, CT)

Advanced Medium Mobile Power Sources (AMMPS) 5 – 60kW:

Cummins Power Generation (Minneapolis, MN)

30kW, 60kW TQG:

L-3 Westwood (Tulsa, OK)

Deployable Power Generation and Distribution System (DPGDS):

DRS Fermont (Bridgeport, CT)

