

Third Echelon Test System (TETS)

DESCRIPTION

Third Echelon Test Set (TETS) is a portable, automated test unit that is controlled by a ruggedized micro-processor computer. It is a modular design configuration using mature and proven Non-developmental Item components and modules to accommodate 3 configurations: Basic, Radio Frequency (RF) and Electro-Optical (EO). The Basic configuration will consist of sufficient test capabilities to screen analog, digital and hybrid Modules and Circuit Card Assemblies to obtain a GO/NO GO finding. The RF configuration will consist of the basic configuration plus additional test capability to screen RF Modules and Circuit Cards. The EO configuration will consist of the basic configuration plus additional test capability to screen EO Modules and Circuit Assemblies. TETS will also have the capability of limited discrete component diagnostics. Primary power input is 28VDC, provided via the standard NATO slave receptacle on a HMMWV. Secondary input power is 108-220 VAC, 40 - 400 Hz.

PROCUREMENT PROFILE:	FY00	FY01
<i>Quantity:</i>	<i>126</i>	<i>38</i>

OPERATIONAL IMPACT

The MAGTF has numerous systems and equipment that contain electronic printed circuit cards. However, the Marine Corps has no man portable automatic test capability that can be used to fault isolate and repair LRU's down to the faulty circuit card assembly.

This deficiency frequently requires maintenance personnel to evacuate equipment to rear areas for required repairs. TETS will overcome these deficiencies as it is primarily transported and employed in the rear of a HMMWV. TETS will facilitate the rapid repair and restoration of degraded Weapon Systems by screening LRU's to determine a single failed circuit card assembly within that LRU. TETS will significantly enhance 3rd and 4th echelon maintenance support capabilities.



PROGRAM STATUS

Currently, TETS is in the Production Phase. First Article Testing was completed and approved in FY99 with deliveries from Lot I delivered in FY00. Lot II production contract was awarded after First Article Test approval in FY99. TETS fielding will begin in late FY00 with Marine Corps Communications Electronics School and Test Instrument Repair School targeted for IOC.

DEVELOPER/MANUFACTURER

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