

## **M1A1 Firepower Enhancements Program (FEP)**

### **Description**

The FEP is a suite of upgrades for the M1A1 Tank. It will include a second-generation thermal sight and a far target location (FTL) capability. The second-generation thermal sight consists of upgrades to the M1A1 stabilization system, infrared optics, an infrared focal plane array, associated analog and digital electronics, display, brackets, and cables. The FTL system consists of a North Finding Module (NFM), bracket, cables, and inputs from the existing laser rangefinder and Precision Lightweight Global Positioning System Receiver (PLGR). The FTL system will provide the tank crew with accurate target location within two seconds after lasing the target. The FTL solution is determined by utilizing the inputs of the laser rangefinder, PLGR, and NFM.



### **Operational Impact**

As a MAGTF asset, the M1A1 Tank provides maneuver and armor protected firepower to the GCE. As the mobility and survivability of threat systems improve, the M1A1 must increase the speed and accuracy with which they acquire and engage targets. The M1A1 FEP system will provide thermal imaging and FTL capability, which will overmatch threat sensor performance thereby improving the ability of USMC tank crews to engage and defeat an enemy at extended ranges. The M1A1 FEP system will provide for increased target detection, recognition, identification, and FTL capabilities during day and night operations, through smoke, fog, or other battlefield obscurants.

### **Program Status**

On 22 February 2000, COMMARCORSYSCOM approved the program for entry into Phase 1, the Competitive Integration and Demonstration (CIDP) phase. In July 2000 competitive contracts were awarded to develop prototype systems for evaluation. At the end of CIDP, the program will down select to a single contractor.

<b>Procurement Profile</b>	<b>FY02</b>	<b>FY03</b>
<b>Quantity:</b>	0	0

<b>Developer/Manufacturer</b>	Raytheon Systems Company McKinney, TX DRS Sensor Systems, Inc. Torrence, CA
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