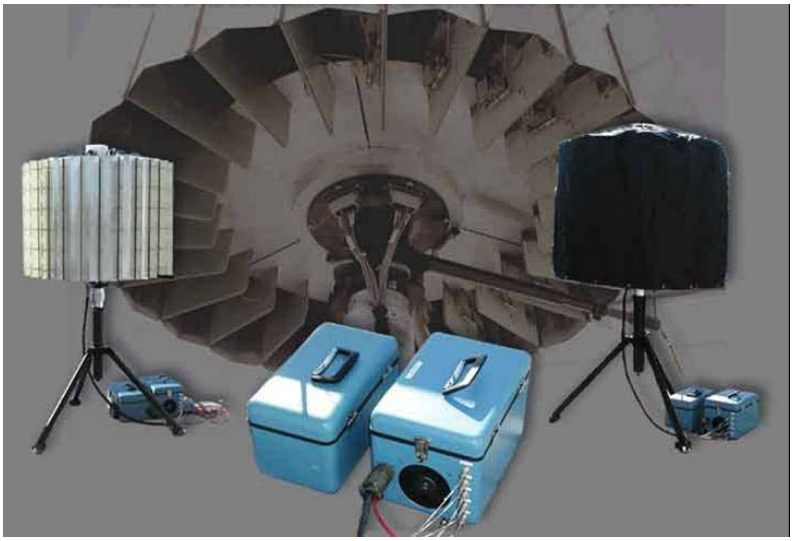
Lightweight Counter-Mortar Radar

Purpose: Assess the U.S. Army Special Operations Command (USASOC) Lightweight Counter-Mortar Radar (LCMR) to determine if this capability could support Marine Corps warfighting needs.

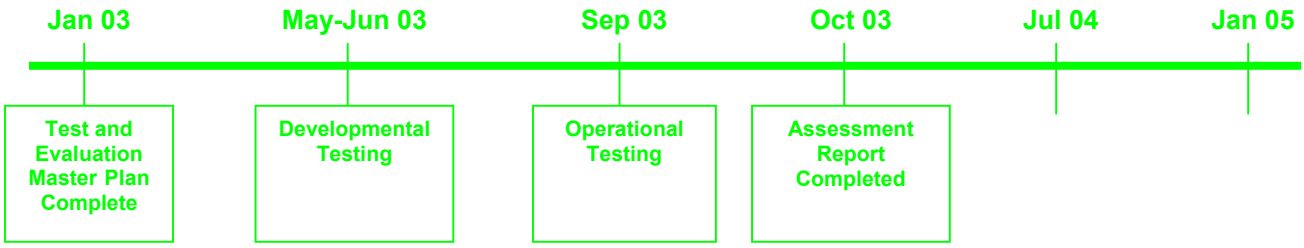
Background: The Army has identified a requirement for a lightweight counter-fire radar capability that can be employed during static line airborne operations. This capability will enable forces such as the 75th Ranger Regiment conducting airfield seizure operations to locate hostile indirect fires systems. This capability may also meet a Marine Corps need for a reduced footprint ashore in support of *Ship to Objective Maneuver* operations.



Description: The LCMR is composed of two 60-pound components that can be employed by two static line jumpers. The system operates autonomously and provides omni-directional detection capability. As an enemy mortar round is detected, the system provides wireless digital transmission to the unit's command and control node. Transmitted data will include a grid coordinate indicating where the round originated. LCMR uses radio frequency technology to locate incoming rounds using a directional or omni-directional feature that can be manipulated to a specific sector of interest. The objective system will be capable of 100M circular probable error at a range of 10 KM. The Lab will monitor the program through operational testing to develop an complete assessment of the LMCR. A decision purchase prototype for Marine Corps experimentation will be made following the assessment.

Deliverable Product(s): Assessment Report.

Milestones:



Action Officer: (703) 784-3785