

MULTI-ROLE RADAR SYSTEM

DESCRIPTION

The Multi-Role Radar System (MRRS) is a mobile radar system that will be employed by MAGTFs in all phases of Marine Corps operations. The MRRS is a medium-range surveillance radar used to detect and track aircraft, cruise missiles, and unmanned aerial vehicles. The system will serve as a gap-filler radar by providing three-dimensional coverage of those areas out of view of the AN/TPS-59(V)3 due to terrain masking or other line-of-sight limitations. Additionally, the radar will be capable of providing radar cueing data to all short-range air defense units supporting the MAGTF. The radar is intended to replace and perform all the missions currently associated with the AN/TPS-63 radar, AN/TPS-79 ATC ASPARC radar, and the AN/MPQ-62 surveillance radar. The radar also will have connectivity with the Composite Tracking Network. MRRS will be deployed early during naval expeditionary operations to augment sea-based air defense sensors and command-and-control capabilities.

OPERATIONAL IMPACT

MRRS will have the responsiveness needed to detect, identify, and track enhanced, low-level air-breathing targets during the execution of all Expeditionary

Maneuver Warfare operations. In addition, the radar will be capable of cueing and reporting on targets detected within its coverage limits to designated air command-and-control agencies. The reduced logistical footprint of the radar will enhance the capabilities of MACCS in support of all phases of MAGTF operations. The reduced logistical footprint of the radar will enhance the capabilities of MACCS elements in support of all phases of MAGTF operations. Once ashore, the radar will possess the mobility required to keep pace with supported maneuver elements and will complement the Marine Corps' long-range radar, the AN/TPS- 59 (V)3, by providing accurate low-level tracks.

PROGRAM STATUS

An MRRS concept demonstrator is being developed in conjunction with the Office of Naval Research (ONR) as a science and technology effort under the auspices of the Missile Defense Future Naval Capability set. This ONR effort will develop the concept demonstrator for initial testing in FY 2004 and full integration testing in FY2005. Initial operational capability is planned for FY 2007 and full operational capability in FY 2011.

PROCUREMENT PROFILE:	FY 04	FY 05
Quantity:	0	0
DEVELOPER/MANUFACTURER		
TBD		