

MH-60R Multi-Mission Helicopter

Executive Summary

- The overall assessment of the MH-60R airframe remains operationally effective, operationally suitable, and survivable for all mission areas.
- Commander, Operational Test and Evaluation Force (COTF) completed testing focused on corrections made to resolve previously identified Multi-spectral Targeting System (MTS) deficiencies. The analysis of that test data is still in progress. DOT&E expects to issue a formal test report in 2QFY14.
- COTF completed IOT&E of MH-60R with the Automatic Radar Periscope Detection and Discrimination (ARPDD) upgrade in 4QFY13. Data analysis is ongoing; DOT&E will submit a formal test report in 2QFY14.

System

- The MH-60R is a ship-based helicopter designed to operate from cruisers, destroyers, frigates, littoral combat ships, and aircraft carriers.
- It incorporates dipping sonar and sonobuoy acoustic sensors, multi-mode radar, electronic warfare sensors, a forward-looking infrared sensor with laser designator, and an advanced mission data processing system.
- It employs Mk 46 and Mk 54 torpedoes, Hellfire air-to-surface missiles, and crew-served mounted machine guns.
- It has a three-man crew: two pilots and one sensor operator.



Mission

The Maritime Component Commander employs the MH-60R from ships or shore stations to accomplish the following:

- Surface Warfare, Under Sea Warfare, Area Surveillance, Combat Identification, and Naval Surface Fire Support missions previously provided by two different helicopters (SH-60B and SH-60F)
- Support missions such as Search and Rescue at-sea and, when outfitted with necessary armament, maritime force protection duties

Major Contractors

- Sikorsky Aircraft Corporation – Stratford, Connecticut
- Lockheed Martin Mission System and Sensors – Owego, New York

Activity

- COTF conducted testing focused on corrections made to resolve previously identified MTS deficiencies from 4QFY12 to 2QFY13. Testing was conducted in accordance with a DOT&E-approved plan.
- COTF completed IOT&E of MH-60R with the ARPDD upgrade in 4QFY2013. Testing was conducted in accordance with a DOT&E-approved test plan.
- All LFT&E activities have been completed and reported in the Combined OT&E/LFT&E report to Congress in 2006.

Assessment

- Preliminary analysis of test data collected during testing of the upgraded software for MTS on the MH-60R indicates that most of the deficiencies identified during previous testing events have been resolved. However, testing was limited in scope and did not support an assessment of the Surface Warfare mission capability of MH-60R when equipped with

MTS and the Hellfire missile. DOT&E expects to issue a formal test report in 2QFY14.

- The analysis of test data collected during IOT&E of MH-60R with the ARPDD upgrade is in progress. DOT&E expects to issue a formal test report in 2QFY14.

Recommendations

- Status of Previous Recommendations. The Navy has partially addressed the FY12 recommendation by conducting FOT&E to assess corrections made to resolve previously identified MTS deficiencies.
- FY13 Recommendations. The Navy should:
 1. Conduct comprehensive live fire lethality testing of the Hellfire missile against a complete set of threat representative small boat targets.
 2. Test the Surface Warfare mission capability of MH-60R equipped with Hellfire missiles.

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