

Kiowa Warrior

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

To support combat and contingency operations with a light, rapidly deployable helicopter capable of armed reconnaissance, security, target acquisition and designation, command and control, light attack, and defensive air combat missions.

DESCRIPTION

The Kiowa Warrior is a single-engine, two-man, lightly armed reconnaissance helicopter with advanced visionics, navigation, communication, weapons, and cockpit integration systems. Its mast-mounted sight houses a thermal imaging system, low-light television, and a laser rangefinder/designator permitting target acquisition and engagement at standoff ranges and in adverse weather. The navigation system can convey precise target locations to other aircraft or artillery via its advanced digital

communications system. It provides anti-armor and anti-personnel capabilities at standoff ranges.

The Army is currently installing modifications to address safety, obsolescence and weight to keep the aircraft viable through its projected retirement date of FY20. Key among these modifications is the addition of an upgraded cockpit, a nose mounted sensor, and a dual channel full authority digital engine control. Additionally, the Army has started an aircraft replacement program to address Kiowa Warrior losses.

SYSTEM INTERDEPENDENCIES

Various communications, navigation, and weapons systems.

PROGRAM STATUS

- **1QFY09:** 4th Category B aircraft inducted for restoration to flyable status
- **2QFY09:** Awarded contract for Safety Enhancement Program (SEP) Lots 12 and 13 (27 aircraft/30 aircraft)

- **2QFY09:** First 10 aircraft equipped with Condition Based Maintenance units for operational test and calibration
- **2QFY09:** Completed fielding of new lightweight weapons rack
- **3QFY09:** Completed in-theatre fielding of M3P .50 Caliber Machine Gun; all squadrons in OIF/OEF equipped with M3P
- **3QFY09:** Completed SEP Lot 11 (27 aircraft)
- **3QFY09:** Kiowa Warrior Cockpit and Sensor Upgrade Program (CASUP) Acquisition Decision Memorandum released (ACAT II)
- **4QFY09:** 5th Category B aircraft inducted for restoration to flyable status
- **FY08-FY09:** Reset 121 aircraft re-deploying from OIF/OEF
- **FY08-FY09:** Installed 663 Modification Work Orders including lightweight weapons rack, personal computer data transfer system with video, APX-118 transponder, cockpit airbag system, and crash attenuating seats
- **4QFY09:** Successful flight demonstration of prototype level II UAV teaming capability

- **4QFY09:** Kiowa Warrior CASUP cockpit modification and prototyping initiated at prototyping and integration facility

PROJECTED ACTIVITIES

- **1QFY10:** Award contract for Control and Display Subsystem-5 upgrade as part of Kiowa Warrior CASUP modifications
- **1QFY10:** Award contract for dual channel engine full authority digital electronic fuel control system
- **1QFY10:** Induct 6th Category B aircraft for restoration to flyable status
- **1QFY10:** Award contract with Bell Helicopter for engineering services
- **3QFY10:** Complete delivery of lot 12 Safety Enhancement Program aircraft
- **3QFY10:** Award contract for OH-58A to D cabin conversion
- **3QFY10:** Fielding of lightweight, color, multi-function displays
- **3QFY10:** First production modifications of AN/AAR-57 Common Missile Warning System equipped Kiowa Warrior aircraft
- **3QFY10:** Kiowa Warrior CASUP Milestone B briefing

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Kiowa Warrior

FOREIGN MILITARY SALES

Taiwan

CONTRACTORS

Bell Helicopter, Textron (Fort Worth, TX)
DRS Optronics, Inc. (Palm Bay, FL)
Rolls Royce Corp. (Indianapolis, IN)
Honeywell (Albuquerque, NM)
Elbit Systems of America (Fort Worth, TX)

