AIR FORCE PROGRAMS

Combat Search and Rescue Replacement Vehicle (CSAR-X) / Personnel Recovery Vehicle (PRV)

Executive Summary

- The Combat Search and Rescue Replacement Vehicle (CSAR-X) program submitted a Test and Evaluation Master Plan (TEMP). OSD directed the program to re-submit the TEMP including an updated LFT&E strategy within 90 days of source selection.
- A Defense Acquisition Board (DAB) met on October 31, 2006, and approved implementation of the program at Milestone B.
- Shortly after the DAB, an Air Force source selection board announced selection of the Boeing H-47 helicopter for the CSAR-X program.
- A government review of the source selection process will delay detailed test planning.
- The program has a test strategy that provides for an operational assessment prior to the low-rate initial production (LRIP) decision. Based on DOT&E's experience with other programs, the CSAR-X program retains schedule risk in achieving the desired capabilities before the proposed LRIP decision point.

System

The CSAR-X (formerly called the Personnel Recovery Vehicle (PRV)) will replace aging Air Force HH-60 Combat Search and Rescue (CSAR) helicopters. The program intends to field a new vehicle capable of meeting the Air Force CSAR requirements and increase the inventory of available rescue helicopters based on updated needs analyses. The primary program requirements are:

- Two hundred and seventy-five nautical miles (nm) combat radius
- Downwash that does not impede safe and successful recovery of personnel



- Ready for deployment within three hours of tasking, ready for flight operations within three hours of arrival, and worldwide operations capable within 24 hours of departure
- Self-defense, survivability, and vulnerability capabilities that support CSAR
- Lethal and electronic threat engagement
- Capacity to carry 2,900 pounds; usable cabin space for aircrew, recovery team, four non-ambulatory patients, and mission equipment

Mission

- Operational units equipped with CSAR-X recover isolated personnel and downed aircrew.
- Time is the single most important factor in successful recovery of personnel. The purpose of the CSAR-X is to help operational units conduct the recovery mission operational tasks (i.e. rapid deployment, refueling, self-protection, and self-sustainment) more quickly than current systems, thus minimizing the overall time to recover personnel.

Activity

- The CSAR-X program submitted a TEMP for Milestone B prior to source selection. Out of concern that the TEMP be updated to account for competitor-specific testing, OSD directed the program to re-submit the TEMP, including an updated LFT&E strategy, 90 days after source selection.
- A DAB met on October 31, 2006, and approved implementation of the program at Milestone B. Shortly after the DAB, an Air Force source selection board announced selection of the Boeing H-47 helicopter for the CSAR-X program.
- The program implemented a number of DOT&E suggestions in their test strategy, including an operational assessment prior to the LRIP decision and use of production representative aircraft for operational testing.

Assessment

 The test program appears adequate with sufficient test assets to support an LRIP decision and IOT&E. An operational assessment using available developmental testing information will support the LRIP decision.

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- The program schedule delivers the first test assets approximately two years after development begins. DOT&E is concerned about schedule risk with respect to developing and producing a survivable, capable helicopter that meets requirements within the relatively short span between program initiation and the proposed LRIP decision point.
- The Air Force requested offers from three companies with aircraft that come close to the Air Force requirements for a new rescue helicopter. There is sufficient variation in the proposed aircraft such that USD (AT&L) and DOT&E believe that the TEMP required significant changes in testing and LFT&E strategy depending on the aircraft selected. The original direction for this required 90 days from source selection; however this will be delayed as the Air Force and Government Accountability Office review the source selection process for the program.

Recommendations

- Status of Previous Recommendations. The program took effective action on all of the DOT&E recommendations from the previous annual report.
- FY06 Recommendations. The CSAR-X program should:
 - Continue with a strategy and TEMP that matches those submitted for the Milestone B decision. The program should retain the operational assessment prior to committing to LRIP and complete sufficient test planning to support adequate operational testing.
 - 2. Shift from a calendar-driven to event-driven approach if development identifies significant deficiencies that might delay or impact operational testing.