

C-130 Avionics Modernization Program (C-130 AMP)

Executive Summary

- Due to Nunn-McCurdy breaches, USD (AT&L) recertified the C-130 Avionics Modernization Program (AMP) to Congress in June 2007. The Air Force is restructuring AMP to the OSD-certified baseline.
- The certification process resized the C-130 AMP program from the original 519 (which included all variants) to 222. The program only includes the H2, H2.5, and the H-3 models.
- The Air Force intends to submit an update to the Test and Evaluation Master Plan (TEMP) in November 2007.

System

- Legacy C-130s (excluding the C-130J) are four-engine turboprop aircraft used by the Air Force, Navy, Marines, and Special Operations units. Crew size varies from four to 13 depending on aircraft mission.
- The AMP adds glass cockpits, integrated digital avionics, and an integrated defensive systems suite. It eliminates the need for a navigator on all Combat Delivery missions. AMP provides new communications, navigation, and surveillance capabilities for Air Traffic Management functions.
- Combat Delivery C-130 AMP aircraft have six pallet positions for cargo.

Mission

- Units equipped with the C-130 primarily perform the tactical portion of the airlift mission, flying shorter distances and using austere airfields within combat zones.



- Combat Delivery includes:
 - Airdrop of paratroopers and cargo (palletized, containerized, bulk, and heavy equipment)
 - Airland delivery of passengers, troops, and cargo

Activity

- The C-130 AMP experienced a Nunn-McCurdy breach in FY07. The OSD-led recertification process ran from January 2007 to June 2007.
 - DOT&E participated in multiple meetings and venues to review program information and determine the appropriate steps leading to certification of a revised, executable C-130 AMP that meets Nunn-McCurdy certification requirements.
- The Air Force intends to submit an update to the TEMP for DOT&E approval in November 2007.
 - Mitigating technical and schedule risks
 - Determining low-rate initial production quantities to support operational testing
 - Updating of the Capability Production Document
 - Approving an adequate TEMP
- The operational test includes a minimum of four production representative aircraft with at least two of those being LRIP aircraft.

Recommendations

- Status of Previous Recommendations. The Air Force has taken adequate action on the FY05 and FY06 recommendations.
- FY07 Recommendation. None.

Assessment

- The program has scaled back from the original 519 (which included all variants) to 222 combat delivery aircraft (H2, H2.5, and H3 models).
- Major issues being addressed due to the Nunn-McCurdy breach resolution are:

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