P5 CTS/TCTS

Air Combat Training System

Advanced, Interoperable ACMI Training for U.S. and Allied Forces

The P5 Combat Training System/Tactical Combat Training System (P5 CTS/TCTS) provides next-generation, interoperable air combat training capabilities for U.S. and allied forces. The system allows the U.S. Navy, Marines and Air Force to train on a common platform with coalition partners. It sets the standard for joint, multiservice and coalition training.

Now fully operational, P5 CTS/TCTS will be delivered to more than 30 ranges worldwide. The system features a common approach for all participants, and rangeless capabilities that let pilots train "anywhere at any-time" without a fixed range. With the P5 system, Navy pilots can conduct advanced instrumented training at sea aboard aircraft carriers.

Among its major features, the P5 system comprises easily transportable components with advanced security features, real-time weapons simulations and live monitoring functions. It provides real-time training for air-to-air, air-to-ground and surface-to-air combat training missions. The system features both aircraft-mounted airborne instrumentation packages and ground stations.

The P5 system also incorporates a long-range data link that allows both fully rangeless operations as well as the ability to monitor and control the exercise on the ground or from aircraft carriers.

Other advanced features include real-time weapons simulation and Real-Time Kill Notification (RTKN). Cubic Defense Applications and its principal subcontractor, DRS Technologies, are providing P5 CTS/TCTS under a 10-year indefinite delivery/indefinite quantity contract.

Key Components

The key components of P5 CTS/TCTS are the airborne subsystems, and ground-based aircrew control and debrief subsystems.

The P5 CTS/TCTS airborne subsystems collect and process in-flight data to perform real-time weapons simulations and records pertinent mission data to support post-mission debriefs. Packaging options include an external pod, an "internal set" and a rack-mounted configuration to support a variety of different aircraft platforms.

The ground subsystem incorporates the Individual Combat Aircrew Display System (ICADS), which supports individual pilot debriefs at homestations or mass debriefings in theater environments.

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Major Features

P5 CTS/TCTS initially provides an airborne subsystem pod that supports 72 high-activity aircraft and incorporates an 80 nautical mile air-to-air and 125 nautical mile air-to-ground data link. A built-in relay capability further extends the range to over 200 miles. Additional capabilities include:

- Internal Subsystem (IS) for use on F/A-18 and AV8B aircraft
- Rack-mounted Subsystem (RS) for a variety of fixed and rotary wing aircraft
- Electronic combat warfare training capabilities
- Computer-Generated Threat System (CGTS)
- Shipboard ground subsystem
- Fixed ground subsystem
- No Drop Weapons Scoring (NDWS), which includes precision-guided weapons
- Compliance with next-generation range instrumentation interface standards
- Compatibility with additional aircraft platforms

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