

M.C. Dean Designs & Constructs New RDT&E Hangar Complex
Patuxent River Naval Air Station Complex Undergoes New Design & Construction

Dulles, Va., Nov. 18, 2011 – M.C. Dean, Inc., the nation's leading engineering and technology service firm for mission-critical systems and facilities, was recently awarded a \$5.4 million subcontract to design and construct a new hangar complex in St. Mary's County, Md.

This project involves the design and construction of a 71,000-square foot Research, Development, Testing, and Evaluation (RDT&E) hangar complex and includes the associated support, administrative, and maintenance functions, and facilities. The PAX River project also involves the design and construction of aircraft parking aprons, taxiway access, line vehicle parking spaces, fiber distribution node and shelter, roadways, on-site parking, and other site improvements.

Naval Air Station Patuxent River in St. Mary's County, Maryland is being undertaken to support the Broad Area Maritime Surveillance (BAMS) Unmanned Aircraft Systems (UAS) program and the Naval Air Warfare Center Aircraft Division.

The electrical contract includes power, lighting, grounding, telecommunications, fire alarm, and security design and construction. The project will consist of two electrical rooms and telecom rooms for distribution throughout the building. The hangar bay will contain three 400Hz service point connections for power to the aircraft with one service point at the apron. The emergency power will be provided by a diesel generator located in the mechanical yard and support all life safety and emergency power loads, including the three 300hp aqueous film forming foams (AFFF) electric pumps and a lightning inverter for the emergency egress lighting.

Also, included in the design will be a complete, roof mounted, grid-tied photovoltaic (PV) system with an output voltage of 480v/277. The PV system will be a 3-phase, 4-wire system and will be parallel to operate in conjunction with the electric grid. The PV system will be sized at such that the theoretical maximum PV output will be at least 20 percent of the Hangar Facility's transformer self-cooled rating.

The telecommunications system will be provided for both the hangar facility and Fiber Distribution Node (FDN) building, which consists of the building entrance facility and backbone/horizontal distribution system.

The Fire alarm design includes an addressable fire detection and alarm system with a mass notification system for the Hangar and FDN buildings. The system will include a Fire Alarm Control Panel (FACP) to power and monitor all devices and functions associated with both systems. A separate FACP will be provided to monitor all devices and functions associated with the AFFF and Pre-Action fire suppression systems.

The design and infrastructure for electronic security system (ESS) will include cable, pathways, electric door hardware and power and other equipment associated with the Electronic Security System. This system will include an Access Control Panel, card reader entry, Intrusion Detection System with motion detection and balanced magnetic switch and a Video Surveillance System with exterior and interior cameras.

This project is designed to achieve LEED Silver Certification when completed in September/October 2012.

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About M.C. Dean, Inc.

M.C. Dean, Inc. is an engineering and technology service firm for mission-critical systems and facilities. Founded in 1949, M.C. Dean has set the industry standard for design-build-maintain projects in mission critical electrical infrastructure, telecommunications, instrumentation and control, and security and electronic systems. Headquartered in Dulles, VA, M.C. Dean employs more than 3,500 professionals in 30 offices worldwide. For more information, see www.mcdean.com.

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