



US Army Corps
of Engineers
Huntsville Center

Program Manager
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Army Facilities Components System

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AFCS - Theater Construction Management System

The Army Facilities Components System was established as a set of standard facility designs managed and supported by the U.S. Army Corps of Engineers. The system is an engineering construction support program for Army mission construction in a theater of operations and other requirements outside the continental U.S. It also supports emergency construction during disaster relief in any area when required.

It provides planning guidance, construction drawings, bills of materials and labor and equipment estimates. The system also addresses different climatic conditions and construction standards ranging from initial engagement through prolonged conflict and sustainment.

Huntsville Center's mission is to maintain and modernize the AFCS information contained in the system and to distribute to all military engineer units requesting the system.

Because of the large volume

of design and logistics data, AFCS is supported by extensive automation for both computer-aided design (CAD) and database management requirements. Until 1995, the AFCS designs and related information were provided to military engineers in a series of 11 Army technical manuals. All the information from the technical manuals are now provided on a compact disc that can be set up and used on common office computer equipment.

The new user system is titled *Theater Construction Management System (TCMS)*. In addition to the AFCS design drawings and related data, TCMS includes commercial software and government-developed programming to facilitate the functions of planning, logistics coordination, design, site adaptation, communication, construction management and reporting.

Since its inception, AFCS has grown into a military engineering construction

AFCS provides a standard for construction and engineering for theater of operations and other OCONUS requirements.



support system that includes construction drawings, and computerized information for more than 4,400 facility designs and 750 installation designs. Designs include troop camps, hospitals, bridges, marine terminals, port

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facilities, petroleum storage and distribution facilities, and ammunition storage facilities.

Huntsville Center's responsibilities include:

- Developing budgets
- Preparing and conducting industrial advancements in technology
- Planning projects and programs
- Arranging and monitoring periodic exercises of the system
- Developing and coordinating detailed scopes of work for additions and revisions
- Negotiating and awarding design contracts
- Coordinating work with Corps labs
- Preparing designs, bills of material and labor and equipment estimates
- Reviewing designs for technical and functional adequacy
- Automation support for AFCS and TCMS programs
- Working with other Army and Department of Defense agencies on common designs and logistic data
- Distribution and user introduction for TCMS

Customer Base

The AFCS is used by the Joint Chiefs of Staff, major Army commands, agencies and schools, the Navy, Air Force and Marines for their planning, estimating, training, stockpiling and actual construction activities.

The system is also used in determining the engineer force structure requirements to support the planned tactical forces within a theater of operations.

