

## Chapter 10

# Unit Operations

This chapter provides an overview of EAC engineer unit operations below group level. The basic force structure building block for the EAC engineer force is the combat heavy battalion which is augmented, where required, to perform specialized missions. Engineer operations in the COMMZ are generally executed at company and platoon level. The purpose of this chapter is to outline how unit operations are conducted in the combat heavy battalion and in the specialized EAC engineer companies. Unit organizations and capabilities are shown in Appendix A. Topographic unit operations are discussed in *FM 5-105*. Technical aspects of the EAC engineer missions are discussed in *FM 5-104* and other specialized manuals listed in the references.

### COMBAT HEAVY BATTALION

Most missions given to the combat heavy battalion are issued by the engineer group. Exceptions occur when the battalion is operating in direct support of a base commander on an airbase, when responding to a rear area combat threat under the control of a rear TOC or BCOC, or when given an area responsibility such as maintenance of a section of a critical line of communication.

Missions for the construction of new facilities are usually received by construction directive from group. Design of vertical facilities is generally limited at battalion level, usually restricted to site adaptation of theater standardized or AFCS designs. Most design of horizontal facilities is performed at battalion level. Repair, restoration, area damage control, or rear operations missions are usually received by mission order.

The battalion S3 analyzes the missions and tasks them out to the individual companies based on the task priority and the existing workload of each company. The S3 determines if either personnel or equipment augmentation is required and arranges for any needed augmentation. Coordination is

normally made at daily operations meetings between the S3 and the company construction officers. The S3 also notifies the S4 of any critical material requirements, while the companies determine the detailed BOMs. This allows the S4 to order critical items early rather than wait for detailed BOMs. Tactical intelligence and weather data are obtained by the S2 from the rear TOC and passed to the other staff sections and the companies on a daily basis.

The company commander receives missions from battalion and tasks individual platoons for execution. Large missions may require most of the company's assets and be managed at company level, whereas several small missions may be given to one platoon. The company commander analyzes each mission and task organizes the company accordingly. The platoon leader and platoon sergeant are the principal project managers. They conduct site reconnaissances and develop the detailed BOMs and construction schedules, as discussed in Chapter 6. The company construction officer coordinates all external logistical support required by the platoon leader in the execution of the mission. Materials are drawn from the S4 and normally transported to the project site by the platoon. The company commander and platoon leader are responsible for quality control of each construction mission. The platoon leader prepares daily project reports in accordance with the battalion construction SOP. The S3 performs the quality assurance mission by conducting frequent inspections of each project to ensure adequate quality control procedures are being followed.

### PORT CONSTRUCTION COMPANY

The port construction company may operate directly under group control, or it may be placed under the operational control of a combat heavy battalion, depending upon its mission. For an extensive port repair mission, it might even be attached to a combat heavy battalion. The company

has a limited design capability in its company headquarters. Missions are executed by the two construction platoons with equipment support from the equipment platoon as required. The company commander receives missions and tasks them to the construction platoons as previously discussed for a combat heavy battalion. The company commander must maintain close coordination with port authorities and terminal units when working in an operating port. Most designs are prepared at ENCOM, engineer brigade, or engineer group level.

#### **CONSTRUCTION SUPPORT COMPANY**

The construction support company normally operates under group control and provides quarry and asphalt support to the combat heavy battalions. Additional heavy equipment support is available in the equipment platoon. Specific equipment tasking, to include the paving train, comes from the group S3. The combat heavy battalions normally transport products from both the quarry and asphalt plants. Issues of asphalt and quarry products are generally controlled by the group S4. Construction missions normally are not given to the construction support company,

#### **PIPELINE CONSTRUCTION SUPPORT COMPANY**

The pipeline construction support company may operate directly under group control, or it may be placed under the operational control of a combat heavy battalion, depending upon its mission. Pipeline missions are performed by the construction platoons. Specialized equipment support is provided by the equipment platoon. Each construction platoon normally augments and provides technical support to a combat heavy company engaged in a pipeline mission. However, repair, rehabilitation, and limited construction missions may be given directly to the company to perform with its own resources. Pipeline design is performed at group or higher level.

#### **DUMP TRUCK COMPANY**

The dump truck company may operate directly under group control, or it may be placed under the operational control of a combat heavy battalion, depending upon its mission. Haul missions are performed by the dump truck platoons in support of a combat heavy battalion or the separate companies. Tasking is done by either the group or battalion S3.