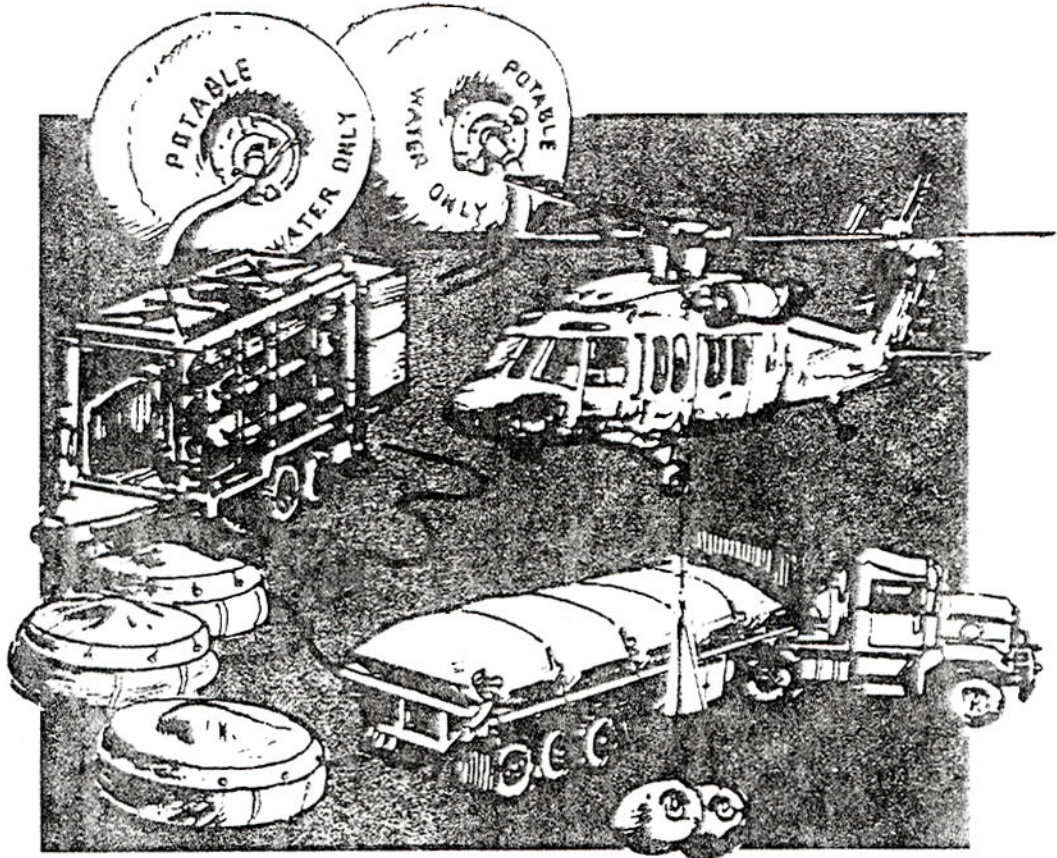

FM 10-52



WATER SUPPLY IN THEATERS OF OPERATIONS

HEADQUARTERS, DEPARTMENT OF THE ARMY

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FIELD MANUAL
NO 10-52

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 11 July 1990

WATER SUPPLY IN THEATERS OF OPERATIONS

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**This publication supersedes FM 10-52, 27 February 1985.*

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PREFACE

PURPOSE

This manual is a guide for commanders, staff officers, and other persons concerned with planning, organizing, and operating an Army water supply system in a TO. Concepts and doctrine are presented to enable the planner to design a water purification, storage, and distribution system that will ensure units can provide necessary water support to US forces.

SCOPE

The doctrine in this manual is oriented toward operations in a tactical theater and in field training exercises. Water supply at fixed and semifixed installations and in peacetime garrison operations is a Corps of Engineers responsibility and is discussed in depth in the TM 5-813 "Water Supply" series manuals and FM 5-104. Doctrine for the development and operation of a theater water supply system is discussed separately for arid and nonarid regions in both developed and undeveloped theaters. Doctrine for the employment and operation of water point equipment will be in FM 10-52-1 when printed.

Planning factors for water supply in arctic, arid, temperate, and tropical climates are presented for use by logistics planners. Responsibilities for the command, control, and operation of water units in the theater are discussed in detail. Potable water quality standards and surveillance practices are presented. Procedures for management and accountability of water supplies are discussed. The systems described are applicable in LIC, conventional warfare, and operations in an NBC environment on the integrated AirLand battlefield. This manual may not be cited as authority for requesting personnel or equipment.

USER INFORMATION

The proponent of this publication is HQ TRADOC. Users of this manual are encouraged to recommend changes and submit comments for its improvement. Key comments to the specific page and paragraph in which the change is recommended. Provide a reason for each comment to ensure understanding and complete evaluation. To send changes or comments, prepare DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward it to:

*Commander
US Army Quartermaster Center and School (Provisional)
ATTN: ATSM-DTP
Fort Lee, VA 23801-5036*

INTERNATIONAL AGREEMENTS

The provisions of this publication are the subject of the following international agreements:

*STANAG 2136-Minimum Standards of Water Potability
STANAG 2885-Procedures for the Treatment, Acceptability and Provision of
Potable Water in the Field
QSTAG 245-Minimum Requirements for Water Potability (Short and
Long Term Use)
QSTAG 479-Water Quality Analysis Set (Engineer and Preventive Medicine)*

Unless otherwise stated, whenever the masculine gender is used, both men and women are included



CHAPTER 1 WATER SUPPORT

AIRLAND BATTLE

The mission of the US Army is to deter war. Failing that, its goal is to destroy the opposing force. Tactics and logistics are joined on the AirLand battlefield. AirLand Battle doctrine, which shows how the Army will conduct its combat operations, stresses the approach to take when fighting to maximize the potential of US forces. This doctrine stresses tactics, procedures, organizations, support, equipment, and training. Initiative, depth, agility, and synchronization are the directing points used in executing this doctrine. More detailed information on AirLand Battle is in FM 100-5.

COMBAT SERVICE SUPPORT

The ability of the Army to perform its mission rests on sound CSS planning, timely support, and proper use of CSS resources. The most critical resource is water.

Commanders and staff officers should know the capabilities of their CSS units, as well as the CSS assistance available from the next higher echelon. The CSS system develops and maintains maximum combat power by sustaining combat forces. It includes personnel, administration, religion, food, water, finance, legal, maintenance, medical, supply, transportation, and other personnel and logistical services and support.

The US Army may become involved in a conflict in either of the following scenarios in which water support will be required.

Forward-deployed

Support to forward-deployed US Army forces normally involves combined operations in which US forces, pre-deployed in a foreign country, operate