

PREFACE

Field Manual (FM) 3-4-1, Fixed Site Protection, provides guidance for fixed installation commanders, planners, and engineers who are concerned about continuous and effective mission operations in a nuclear, biological, and chemical (NBC) environment. Currently, no guidance exists for implementing NBC survivability actions necessary to protect Army lives and equipment at fixed sites. It is important that commanders apply the techniques described in this FM to meet their particular protection needs.

This field manual applies those fundamentals of NBC defense contained in the following FMs to fixed sites:

- FM 3-3, NBC Contamination Avoidance.
- FM 3-4, NBC Protection.
- FM 3-5, NBC Decontamination.
- FM 3-50, Deliberate Smoke Operations.
- FM 3-100, NBC Operations.

Chapter 1 defines the Threat and provides a vulnerability analysis so that a fixed site commander can determine whether or not his site fits into the scope of this FM.

Chapter 2 defines how the fundamentals of NBC defense (contamination avoidance, protection, and decontamination) apply to fixed sites. In addition, this chapter examines nuclear survivability and the application of smoke and obscurant employment to further enhance a fixed site's survivability.

Chapters 3, 4, and 5 examine each fundamental of NBC defense and explain how each is applied to upgrade a site's survivability through principles, methods, planning, and actions.

Chapter 6 explains those NBC defense operations necessary for survivability and sustainment in a NBC environment. In addition, planning for the usage of smoke and obscurants is explained.

The Appendix implements the use of NATO Standardization Agreement (STANAG) 2047, Emergency Alarm and Warning Systems.

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

The proponent of this FM is the US Army Chemical School. Submit changes for improving this publication on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to Commandant, US Army Chemical School, ATTN: ATZN-CM-NF, Fort McClellan, AL 36205-5020.