

Part II.

MAJOR SYSTEMS AND SUBSYSTEMS

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In the evolution of ABM defense from the early NIKE II studies to the present-day SAFEGUARD System, a number of major systems were conceived and developed to meet the ever-changing threat. These systems are discussed in this part of the report and include NIKE-ZEUS, NIKE-X, SENTINEL, and SAFEGUARD. In addition, each principal subsystem used in the SAFEGUARD deployment is described here from its initial research and development to current configuration.

A list of supporting reference documents is provided in Part IV. Additional information detailing SAFEGUARD System performance is given in a Classified Supplement to this report.

The subject areas by chapter are:

1. NIKE-ZEUS System
2. NIKE-X System
3. SENTINEL System
4. SAFEGUARD System
5. SAFEGUARD System Evaluation
6. Nuclear Vulnerability and Hardening
7. Missile Site Radar
8. Perimeter Acquisition Radar
9. SPRINT Missile Subsystem
10. SPARTAN Missile Subsystem
11. Data Processing System
12. Ballistic Missile Defense Center