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REPORT R-122

STRAT-X

In 20 Volumes

Volume 12

REACTION-LAND MOBILE SYSTEM (U)

DDC
NOV 3 1967

INSTITUTE FOR DEFENSE ANALYSES
RESEARCH AND ENGINEERING SUPPORT DIVISION
400 Army-Navy Drive, Arlington, Virginia 22202

IDA

August 1967

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INSTITUTE FOR DEFENSE ANALYSES

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400 Army-Navy Drive, Arlington, Virginia 22202

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FOREWORD TO THE STRAT-X REPORTS

The STRAT-X Study was performed by the Research and Engineering Support Division of IDA in response to ARPA Contract DAHC-15-67-C-0011, Task Order T-56. Many individuals, government agencies and industrial organizations furnished information which was used in the preparation of the STRAT-X reports, but the responsibility for the contents is taken by the individuals shown below.

Gen. Maxwell D. Taylor - President, IDA

Dr. Ali B. Cambel - Director, RESD Division of IDA

Dr. Robert H. Fox - Deputy Director, RESD Division of IDA

Mr. Fred A. Payne - Director, STRAT-X Study

Mr. Dewey Rinehart - Chairman, Design Panel

- Mr. Phil DeProtine - Active Defense System
- Mr. Donald D. Cox - Silo System
- Mr. James R. Drake - Land Mobile System
- Dr. Willy A. Fiedler - Submarine System
- Mr. LeRoy E. Harris - Ship System
- Mr. Lloyd E. Munson - Booster Design
- Mr. Maurice B. Dunn - Payload Design
- Mr. Howard E. Trudeau - Payload Design
- Mr. George Gordon - Guidance & Navigation
- Lt. Cdr. Paul Cummins - Systems Analysis

Mr. Clifford Cummings - Chairman, Reactions Panel

- Dr. David Kahn - Unconventional Reactions
- Mr. Kenneth Whitt - Sea Based Reactions
- Dr. J. Christopher Nolen - Active Defense Reactions
- Dr. William Schultis - Land Based Reactions

Dr. Irving Yabroff - Chairman, Evaluation Panel

- Mr. J. William Capps - Deputy Chairman, Evaluation Panel
- Dr. Ralph Pennington (Col. USAF) - System Analysis
- Mr. Wayne M. Allen - Cost
- Mr. Willard W. Perry - Payload Analysis
- Dr. Benjamin Sussholz - Nuclear Effects

The STRAT-X reports are submitted in 20 volumes listed below.

Volume	Title
1	The STRAT-X Report
2	Design-Active Defense System
3	Design-Rock Silo System
4	Design-Land Mobile System
5	Design-Ship Based System
6	Design-New Submarine System
7	Design-Boosters
8	Design-Payloads
9	Design-Guidance and Navigation
10	Reaction-Fixed Undefended Systems
11	Reaction-Fixed Defended Systems
12	Reaction-Land Mobile System
13	Reaction-Ship Based System
14	Reaction-New Submarine System
15	Reaction Unconventional Warfare
16	Reaction-USSR Strategy
17	Systems Analysis
18	Nuclear Effects
19	Costs
20	Payloads Evaluation

FOREWORD TO VOLUME 12

This Volume, "Reaction--Land Mobile System", was prepared under the direction of Dr. W. Schultis. Periodic program reviews and report critiques were conducted by an advisory group made up of the following members:

Mr. D'Arcy Brent - Vice President, Baird-Atomic Incorporated

Dr. James Robert Burnett - Director, Minuteman Weapon System, TRW Systems Group, BSD

Mr. Carl Duckett - Central Intelligence Agency

Admiral E.B. Fluckey - OPNAV, The Pentagon

Dr. Richard Latter - RAND Corporation

Professor Samuel B. Treiman - Palmer Physical Laboratory, Princeton University

Mr. T. Walkowitz - Rockefeller Associates

Lt.Colonel Jasper A. Welch - Los Angeles Air Force Station

Colonel Ed Wynn - Defense Intelligence Agency

Further Technological and Engineering support was given by principal Contractors as follows:

University of Michigan - Seismic/acoustic sensor design studies

LTV Electrosystem - Terminal guidance techniques and applications

TRW - Satellite systems design studies

GRC - Surveillance system design and paramilitary support studies

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13. ABSTRACT

Possible Soviet reactions to the STRAT-X Land Mobile System basing concept, including both ballistic attack and paramilitary attack by armed personnel by both air or ground, are presented. Also included is a brief description of the Land Mobile System and the major weaknesses of the system along with reaction system costs. (U)

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