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REPORT R-122

STRAT-X

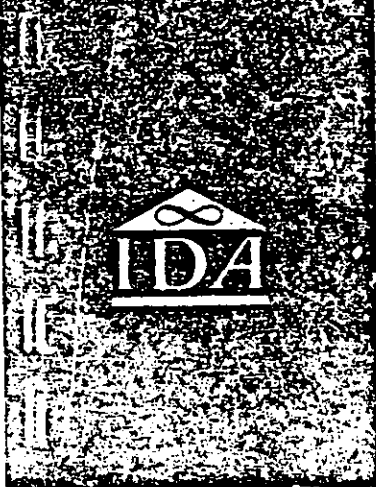
In 20 Volumes

Volume 12

REACTION-LAND MOBILE SYSTEM (U)

D D C
NOV 3 1967

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



August 1967

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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-55. 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

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

<u>Volume</u>	<u>Title</u>
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

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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
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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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