

~~CONFIDENTIAL - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

ENCLOSURE

JOINT CHIEFS OF STAFF  
JOINT PLANNING GROUP

JCSM-186-71  
23 April 1971

MEMORANDUM FOR THE SECRETARY OF DEFENSE

SUBJECT: Analysis of the Single Integrated Operational Plan for the National Security Council (SIOP)

1. (U) Reference is made to your memorandum, dated 19 August 1970, subject as above, which requested that the Joint Chiefs of Staff develop an analysis of the Single Integrated Operational Plan (SIOP) for the National Security Council.

2. (U) The analysis requested by the reference is contained in the Appendix hereto.

3. (C) The Joint Chiefs of Staff consider that the individuals designated in the enclosure to the reference should be convened for the purpose of contributing to or reviewing the attached analysis. Procedures for limiting access to this information within the Organization of the Joint Chiefs of Staff and the Services have been previously established.

4. (U) The Joint Chiefs of Staff recommend that a proposed briefing of the SJCP to the Defense Planning Review Committee (DPRC) by General Holloway, USA, Commander-in-Chief of Strategic Target Planning, be dismissed in the interest of the DPRC meeting, be presented prior to forwarding this analysis to the DPRC. Thus, this analysis would not prevent General Holloway's briefing, in that there is considerable overlap in the proposed content of the briefing and this analysis.

5. (U) Without attachment, this memorandum is downgraded to CONFIDENTIAL-SENSITIVE.

For the Joint Chiefs of Staff,

Signed

W. C. WESTMORELAND  
Acting Chairman  
Joint Chiefs of Staff

GROUP I  
Archived and  
declassified and  
declassification

66 DOD/DFOISR  
TOP SECRET CONTROL

Copy No.	Case No. 94-F-0934
T.S. No. C2-TS-100	Document No. 1

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

Enclosure

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

APPENDIX

(154 pages)

ANALYSIS OF THE SIEP  
FOR THE NATIONAL SECURITY COUNCIL

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

~~TOP SECRET - SENSITIVE~~

APPENDIX

ANALYSIS OF THE SINGLE INTEGRATED OPERATIONAL PLAN  
FOR THE NATIONAL SECURITY COUNCIL (U)

TABLE OF CONTENTS

<u>Part</u>		<u>Page</u>
I	Introduction, Overview, Conclusions and Background	I-1
I	Introduction, Overview and Background	I-1
II	NSTAP Objectives and SIOP Planning Criteria	II-1
III	Relationship Among NSDM-16 Criteria, SIOP Targeting Objectives, and Other Potential Criteria for Force Planning	III-1
IV	The Force Mix Concept	IV-1
V	Future Force Analysis	V-1
<u>Annexes</u>		
A	Examples of [REDACTED]	A-1
B	War Game Analysis by the Studies, Analysis, and Gaming Agency (SAGA)	B-1
C	VALIMAR Model	C-1
	Glossary	

SPECIAL HANDLING REQUIRED  
NOT RELEASABLE TO  
FOREIGN NATIONALS

GROUP 1  
EXCLUDED FROM AUTOMATIC  
DOWNGRADING AND DECLASSIFICATION

~~TOP SECRET - SENSITIVE~~

## PART I

## INTRODUCTION, OVERVIEW, CONCLUSIONS AND BACKGROUND (U)

INTRODUCTION

1. ~~(S)~~ This paper provides an evaluation of:

a. The capabilities of current US strategic forces, as presently targeted, to meet both the National Security decision Memorandum (NSDM-16) sufficiency criteria, and to carry out the warfighting objectives embodied in the mission of the Single Integrated Operational Plan (SIOP).

b. The impact of force changes on US capabilities under current SIOP targeting philosophy and methodology to meet the strategic sufficiency criteria, on our capabilities to carry out the warfighting objectives of the SIOP, and on the conspicuous US-Soviet strategic force comparisons that could have some effect on US foreign policy objectives.

2. ~~(TS)~~ The Secretary of Defense requested\* this analysis because of his desire that strategic force deliberations at the national level take into

\* Memorandum by the Secretary of Defense for the Chairman, Joint Chiefs of Staff, dated 16 August 1980, subject: "Analysis of the SIOP for the National Security Council."

~~TOP SECRET - SENSITIVE~~

OVERVIEW

3. (S) The paper is organized into five parts and three annexes, as follows:
- a. Part I--Introduction. This part includes conclusions and background. 3
  - b. Part II--NSTAP Objectives and SIOP Planning Criteria. This part includes current force capabilities as reflected by the consequences of executing the SIOP as related to the National Strategic Targeting and Attack Policy (NSTAP) objectives in SIOP targeting. 5
  - c. Part III--Relationship Among NSDM-16 Criteria, SIOP Targeting Objectives, and Other Potential Criteria for Force Planning. This part evaluates the relationships among the objectives in SIOP targeting, the NSDM-16 criteria for strategic sufficiency, and other criteria of potential importance in planning strategic forces, such as flexible response, support to allies, and diplomatic sufficiency. 7
  - d. Part IV--The Force Mix Concept. This part describes the concept and rationale for a mix of strategic offensive forces in relation to SIOP planning and other requirements such as confidence in deterrence and flexible response capabilities. 18
  - e. Part V--Future Force Analysis. This part consists of a summary of an analysis by the Studies, Analysis, and Gaming Agency (SAGA), Organization of the Joint Chiefs of Staff, of possible future strategic forces in the outyears of 1974 and 1979. (The complete SAGA analysis is in Annex B hereto.) In this analysis, war outcomes are assessed from the results of war games which parallel current SIOP targeting objectives as much as possible. Assessments include applicable NSDM-16 criteria for strategic sufficiency and other criteria of potential importance, such as flexible response, support to 23

~~TOP SECRET - SENSITIVE~~

1-2

abilities and diplomatic sufficiency. The force capability calculations were based on the four forces postulated in the paper prepared for the Defense Program Review Committee, dated 18 August 1970, subject: "Defense Planning 1971-1976," Revision 7, i.e., the objective force in JSOP FY 72-79, the Current Program JCS Joint Force Memorandum (JFM) Alternative Force), the Limited Reduction Program (JFM Decremental Force), and the Reduced Program (JCS Alternative B Force).

f. Annexes. The following annexes provide further details on subject matter in parts as follows:

- (1) Annex A--Examples of Urban/Industrial Target Complexes. Related to Part II.
- (2) Annex B--War Game Analysis by the Studies, Analysis and Gaming Agency. Related to Part V.
- (3) Annex C--VALIMAR Model. Relates to Part V.

#### CONCLUSIONS

4. ~~(TOP)~~ The following conclusions are drawn from Parts II through V:

a. The four strategic sufficiency criteria of NSDM-16\* are intended to provide guidance for strategic force planning and do not address SIOP targeting objectives. However, they do relate, in part, to forces as applied in the SIOP.

(1) The first two criteria are being met by current SIOP-committed forces.

(2) The third criterion [REDACTED]

[REDACTED] damage, is meaningful as a measure of force capability. This analysis used current SIOP targeting policy, which is not [REDACTED]

[REDACTED] Therefore, the capabilities of the forces to satisfy this criterion could not be quantified.

\* See glossary for NSDM-16 criteria

(3) The fourth criterion on limiting damage from accidental or small attacks to a low level is not applicable in measuring the capabilities of strategic offensive forces. It should be noted, however, that defenses deployed in support of this criterion can improve the survivability of bombers, intercontinental ballistic missiles (ICBMs), fleet ballistic missile submarines in port, and the command and control system when subjected to such attacks.

b. There are other criteria of potential importance that strategic forces may be required to meet which are not set forth in NSDM-16. Some of these major criteria are:

(1) To provide warfighting capabilities as an essential part of deterrence. Credible deterrence requires a clear warfighting capability for any level of conflict as well as the unmistakable national determination to use it if necessary to protect US interests.\*

in the

However, there are shortfalls

(2) To provide flexible response capabilities for strategic forces, as necessary, to give the National Command Authorities (NCA) a wide range of options with which to respond to enemy actions.

\* The Joint Chiefs of Staff support this additional criterion as being a requirement for force planning.

~~TOP SECRET - SENSITIVE~~

(3) To provide for support of allies with US strategic forces. A capability for [REDACTED]

[REDACTED] is required for such support.\* The SIOP specifically provides for this criterion by [REDACTED]

[REDACTED] Forces committed to and coordinated with the SIOP would, in fact, provide such support.

(4) To provide [REDACTED]

[REDACTED] This criterion is not directly related to SIOP objectives.

c. A mix of mutually supporting strategic offensive force components (bombers, ICBMs, and sea-launched ballistic missiles (SLBMs)), with diversity in basing, survivability modes, and attack methods:

(1) [REDACTED]

(2) [REDACTED]

(3) [REDACTED]

d. A mix of strategic offensive forces provides significant advantages in the SIOP, especially in [REDACTED]

(1) [REDACTED]

(2) Through [REDACTED] it increases confidence in achieving military objectives.

\* The Joint Chiefs of staff support this additional criterion as being a requirement for force planning.

\*\* See Glossary for definition.

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET - SENSITIVE~~

(1)

(2)

(3)

F. With regard to current US strategic force capabilities, the United States, in terms of objectives used in current SIOP targeting:<sup>\*</sup>

(i)

(2)

(3)

and

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

\* In this analysis, it was not possible to assess war termination. However, the SIOP-4F/RISOP-69 wargames and a preliminary review of SIOP-4I/RISOP-71 wargames indicate that probably [redacted]

\* See glossary for definition.

~~TOP SECRET - SENSITIVE~~

1-6

Part I  
Appendix

Drafted: 1 April 1971

~~TOP SECRET~~ ~~SENSITIVE~~

(4) Can provide support to allies by destroying a significant number of [REDACTED]

g. With regard to the analysis of future US strategic force capabilities based on projections of the programmed forces and alternative reduced forces to 1974 and 1979 against the Soviet threat from NIEP-70:

(1) The United States, in terms of objectives used in current SIOP targeting:

(a) Could not terminate [REDACTED]

(b) Could not destroy or neutralize the [REDACTED]

(c)

(d)

(2)

(3) With the projected high numbers high technology (HI-HI) threat, [REDACTED]

\* See glossary for definition

~~TOP SECRET~~ ~~SENSITIVE~~

I-7

Part I  
Appendix

(Rev. 1, 1st Edition - 23 April 1971)

(4) In numerical comparisons with projected Soviet Forces (i.e., delivery vehicles, warheads, megatons, equivalent megatons, and throw-weight\*) [REDACTED]

h. The analysis further shows that the 1979 objective force as recommended by the Joint Chiefs of Staff in JSOP FY 1972-1979, against either the Soviet HI-HI or high numbers, low technology (HI-LO) force, unless otherwise indicated:

(1) [REDACTED]

(2) Can provide support to [REDACTED]

(3) Can, [REDACTED] satisfy NSDM-16  
Criteria 1 and 2;

(4) Can, [REDACTED], satisfy NSDM-  
16 Criterion 1; but, because of the lack of sufficient  
improvements to the [REDACTED] and the  
improved [REDACTED] can-  
not insure, under Criterion 2,

(5) Cannot significantly limit damage to the [REDACTED]

and [REDACTED]

(6) [REDACTED]

(NOTE: The JSOP force has significant improvements in missile yield and accuracy).

\* See glossary for definition.

~~TOP SECRET - SENSITIVE~~

i. In all cases evaluated, ballistic missile defense deployments beyond those postulated would be required to provide a significant limitation of damage to the [REDACTED]

j. While the VALIMAR computer model is an extremely useful tool for comparing relative capabilities of forces and for indicating general effects of adjustments in force mixes, it has certain acknowledged shortcomings common to all fast-running aggregated computer models as discussed in Part V, pages 2-3. Furthermore, certain necessarily arbitrary assumptions, detailed in Annex B, also effect the wargaming results of this study. Accordingly, the findings based on such analyses, as in this study, must be viewed with caution in determining total capabilities of a single force component and in any final decision on force levels and structure.

k. These limitations of the analytical tool used in this study and the sensitivity of results to certain critical inputs are manifested in certain of the conclusions drawn in Tables 1-9 of Part V, primarily with respect to the ability of US Forces to satisfy Criteria 1 and 2. In these instances, judgments have been derived based on evaluation of the wargaming results and appreciation of the analytical limitations.

BACKGROUND

5. (S) The approach taken by each Administration in the 1960s in strategic force planning decisions placed great emphasis on maintaining an assured destruction capability. This capability was defined by some as the [REDACTED]

During the late 1960s, a significant damage-limiting capability against [REDACTED]

~~TOP SECRET - SENSITIVE~~

a large Soviet attack was judged to be: (a) not cost-effective; (b) not feasible with current technology; and (c) susceptible to being countered by the Soviets. Therefore, forces were not procured for this purpose. The gross size and capabilities of US strategic forces were determined by [redacted]

[redacted] resulting in considerable emphasis on the [redacted]

6. (S) In the mid 1960s against expected threats and under generated alert conditions, US strategic forces were considered to have adequate [redacted]

[redacted] There was some emphasis in force planning on the characteristics, such as yield, reliability, and accuracy, which our forces would need to fight a nuclear war. The Joint Chiefs of Staff, in the Joint Strategic Objectives Plan, consistently have recommended that [redacted]

In general,

however,

7. (S) In the late 1960s, with recognition of the growing Soviet threat, there was increasing concern about providing US Forces with characteristics useful in [redacted]

\* The Joint Chiefs of Staff did not support this rationale. For JCS views, see paragraph 10.

~~TOP SECRET - SENSITIVE~~

8. (TS) The President directed a review of US strategic doctrines early in 1969. The resulting strategic sufficiency criteria of NSDM-16 endorsed the [REDACTED]

[REDACTED] But the sufficiency criteria went beyond this concept and addressed denying the [REDACTED]

[REDACTED] This concept [REDACTED]

[REDACTED] The review also recognized that [REDACTED]  
the criteria did not cover all possible US strategic force requirements and that a continuing study would be required.

9. (U) On 25 February 1971, the President, in his report to Congress on "United States Foreign Policy for the 1970's," stated: "Specifically, sufficiency has two meanings. In its narrow military sense, it means enough force to inflict a level of damage on a potential aggressor sufficient to deter him from attacking. Sole reliance on a 'launch-on-warning' strategy, sometimes suggested by those who would give less weight to the protection of our forces, would force us to live at the edge of a precipice and deny us the flexibility we wish to preserve.

In its broader political sense, sufficiency means the maintenance of forces adequate to prevent us and our allies from being coerced. Thus the relationship between our strategic forces and those of the Soviet Union must be such that our ability and resolve to protect our vital security interests will not be underestimated. I must not be -- and my successors

\* National Security Study Memorandum (NSSM-3)

~~TOP SECRET - SENSITIVE~~

I-11

Part I  
Appendix

must not be -- limited to the indiscriminate mass destruction of enemy civilians as the sole possible response to challenges. This is especially so when that response involves the likelihood of triggering nuclear attacks on our own population. It would be inconsistent with the political meaning of sufficiency to base our force planning solely on some finite -- and theoretical -- capacity to inflict casualties presumed to be unacceptable to the other side."

10. (TS) Thus, there are force planning issues which were not resolved by the current strategic sufficiency criteriz. These issues, in considerable part, address the capabilities required of US strategic forces. [REDACTED] The Joint Chiefs of Staff have stated that, while the principal military objective of the United States with regard to strategic nuclear warfare is to [REDACTED]

[REDACTED]  
these are [REDACTED]

[REDACTED]  
Important among [REDACTED]

[REDACTED]  
This latter objective is considered  
to be as important as [REDACTED] because [REDACTED]

[REDACTED]  
Further, this view of the  
Joint Chiefs of Staff holds that visible warfighting capabilities  
are an essential part of [REDACTED]

[REDACTED]  
as well as the unmistakeable national determination to  
employ US Forces when, and to the degree necessary to protect  
US interests.

~~TOP SECRET - SENSITIVE~~

11. (S) Foremost among these unresolved issues which are relevant to this paper are the following:

a.

b.

c.

d. What steps, if any, should be taken to provide a wider range of

e.

In considering these force planning issues and possible related decisions, their potential effects on the current US plan for strategic targeting must be considered.

12. (TS) The strategic force planning assumptions which have been operative in force planning decisions and the employment of existing US strategic forces are based on somewhat different objectives.

a.

future US weapon systems. Many US programs, being designed  
to reduce the sensitivity of our force capabilities to these  
uncertainties, have been based on conservative planning  
assumptions such as the use of Soviet high threats. It is  
only because of these conservative planning assumptions  
that the United States has been able to maintain a strategic  
balance against the present Soviet threat.

b. Yet, as discussed previously, a major issue in the  
continuing examination of the strategic sufficiency criteria  
is the degree to which our force planning should more  
explicitly and systematically provide forces for warfighting  
capabilities. On this issue, much of the debate concerns the  
degree to which our deterrent is enhanced by added warfighting  
capabilities. It is pertinent here that the Assistant to  
the President for National Security Affairs, in addressing  
overall force posture, recently stated that ". . . While  
our intentions are peaceful and our goal is to deter war at  
all levels, we plan for all our forces to provide a real  
warfighting capability. To be 'realistic', deterrence of  
potential enemies must be based on both our warfighting  
capability and the willingness to use it if necessary."\*

c. [REDACTED]

Therefore,

\* White House memorandum to members of the Defense Program Review Committee, dated 24 February 1971, subject: "Foreign Policy, State and Defense Posture Statement."

~~TOP SECRET - SENSITIVE~~

there is an implicit warfighting objective. Moreover,  
because current Soviet and Chinese Communist force levels  
are known with some degree of certainty and because the  
performance of existing US weapons is relatively well  
understood, the measures used to achieve confidence in current  
SIOP targeting objectives are different from those used in  
planning future US strategic forces. Thus, while we plan to  
procure sufficient future forces to counter high threat  
projection, we have confidence in the probable consequences  
of execution in our current targeting concepts because we  
  
d. These differences between force planning and force  
application must be considered when evaluating the  
capabilities of US Forces to meet the NSDM-16 sufficiency  
criteria and the SIOP planning objectives and criteria. Thus,  
one set of measures is applicable in assessing how well  
forces meet planning objectives and a different set is  
applicable in assessing how well they meet employment  
objectives.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

~~TOP SECRET / SENSITIVE~~

PART II

NSTAP OBJECTIVES AND SIOP PLANNING CRITERIA

BASIC OBJECTIVES

1. (TS) The National Strategic Targeting and Attack Policy (NSTAP) provides guidance for the preparation of capabilities plans [REDACTED]

[REDACTED] The Single Integrated Operational Plan (SIOP) is the capabilities plan which provides for the optimum integration of committed forces of the unified and specified commands, and for coordination with appropriate external commands, for all [REDACTED]

[REDACTED] The SIOP and the targeting policy have been briefed to each successive national administration.

2. (TS) The basic NSTAP objective is to defeat, in concert with other US and allied operations, the Soviet Union alone or in combination with other powers as required. The NSTAP further defines this objective [REDACTED]

[REDACTED] In achieving this objective, military forces of the United States should be prepared:

a. [REDACTED]

b. [REDACTED]

c. [REDACTED]

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET SENSITIVE~~

These tasks may be achieved separately or in combination. It  
is noted that there is [REDACTED]

3. (TS) The NSTAP provides for flexibility in the use of

[REDACTED]  
[REDACTED] These flexibilities are as follows:

SIOP TASKS

1. (TS) SIOP Tasks. [REDACTED] targets in  
the Soviet Bloc\* [REDACTED] are divided  
into types of targets which are categorized as Tasks ALPHA,  
BRAVO and CHARLIE. The number of targets in each task is shown  
in Table 3.

5. (TS) Task ALPHA. This task involves the

[REDACTED] particu-  
larly those forces posing an immediate threat to the United  
States and its allies and to US Forces overseas. The targets  
for this task include:

\* See glossary for definition.

~~TOP SECRET SENSITIVE~~

TOP SECRET - SENSITIVE

11-3

(Revised by Decision - 23 April 1971)

Part II  
Appendix



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

[REDACTED]

1. (TS) Positive preparations are made in all attack options.

Positive action by National Command Authorities (NCA) is needed in order to attack.

10. (TS) In STOP execution,

11. (TS) However, in concert with this attack, the following additional selected strikes may be ordered:

a. [REDACTED]

b. [REDACTED]

c. [REDACTED]

12. (TS) On the other hand, selected strikes by SIOP forces against [REDACTED]

13. Special execution capabilities have been developed which provide the flexibility to execute, against [REDACTED]

[REDACTED]

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

(1) Execution of Tasks ALPHA and BRAVO against [REDACTED]

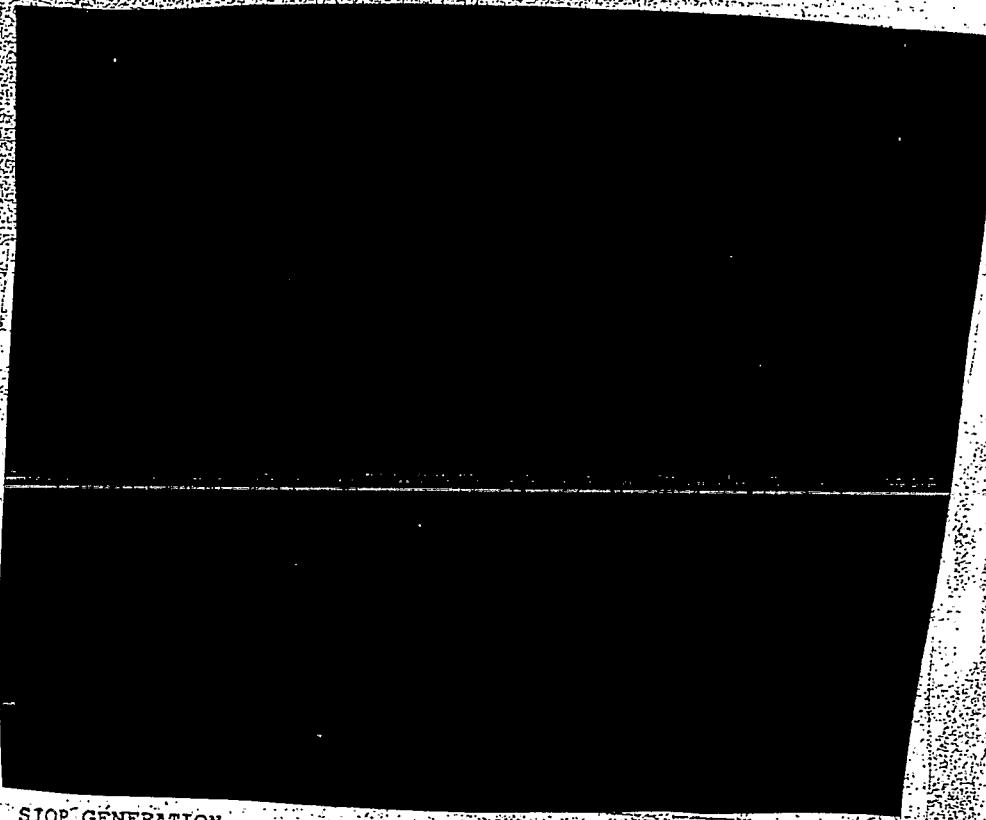
(2) Execution of Tasks ALPHA, BRAVO, and CHARLIE against [REDACTED]

PRELAUNCH SURVIVABILITY

12. (TS) Table 1 shows the prelaunch survivability factors used in the SIOP. Those listed under [REDACTED] are used in planning Attack Options 1 and 2; those listed under [REDACTED] are used in planning Attack Options 3 and 4.

~~TOP SECRET - SENSITIVE~~

Table 1



SIOP GENERATION

13. (TB) The generation of [REDACTED]

[REDACTED] These are shown in Table 2

- 1/ Non-alert (nongenerated) aircraft Prelaunch Survivability (PLS) is [REDACTED]
- 2/ Value shown is for the [REDACTED]

\* See glossary for definition.

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET - SENSITIVE~~

TABLE 2

SIOP Force Generation Levels

Force Generation Level	Preparation Time (A+)	Weapons Programmed to be on Alert
------------------------	-----------------------	-----------------------------------

17. Time required for the [REDACTED]

EXPECTED DAMAGE

14. (TS) Table 3 summarizes, by task, the number of targets attacked in [REDACTED]. This table also shows the average expected damage by task. Table 4 shows the same information by major target types within each task.

15. (TS) Expected damage is based on [REDACTED]

[REDACTED] Expected damage, as shown in these tables and as used in SIOP planning [REDACTED]

[REDACTED] is the [REDACTED]

[REDACTED] The operational factors considered [REDACTED]

are the [REDACTED]

\* All SIOP data in this analysis is extracted from Revision I of the SIOP, effective 1 January 1971 to 30 June 1971.

~~TOP SECRET - SENSITIVE~~

TABLE 3

## SUMMARY OF SIOP TARGETING AND EXPECTED DAMAGE

	Weapons Assigned (Aim Points)	Expected Damage Day-to-Day Alert Posture	Targeted Generated Aim Alert posture points)	Weapon Assigned Day-to-Day Alert Posture	Targeted Generated Aim Alert posture points)
Task ALPHA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Task BRAVO	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Task CHARLIE	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Totals	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

1/ See glossary for definition.  
 2/Difference in weapons assigned between

3/ assignments because of [REDACTED]  
 [REDACTED] (See subparagraph 22b below for further details)

1.S. due to shift of weapons to Task ALPHA

Table 4  
Targeting and Estimated Damage by Target Type

		<u>Attack by US Forces</u>		<u>Attack by HQ Forces</u>		<u>Fully Generated Alert Posture</u>	
		Total Installations Attacked	16 Weapons Programmed	Expected Damage Day-to-Day Alert Posture	Expected Damage Generated Alert Posture	Actual Posture	Weapons Programmed
Task ALPHA	Sub-total	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Task BRAVO	Sub-total	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	Also called [REDACTED] As indicated above,						
	[REDACTED] Decreased OF as compared to preemption. Primarily due to hit ICBMs not targeted due to weapon resource and capability limitations. (See Paragraph 25 below.)						

Table 4 (Continued)

Attack by US Forces		Expected Damage		Generated Alert Posture	
Total Installations Attacked	Installations Attacked	Weapons Programmed	Day-to-Day Alert Posture	Alert Level	Response
Task CHARLIE					

卷之三

תְּלִימָדָה

卷之三

卷之三

Decreased DE as compared to preemption primarily due to Normally Task BRAVO but collocation with [REDACTED] requires designation as Task CHARLIE for execution purposes.

~~TOP SECRET - SENSITIVE~~

16. (U) The expected damage is [REDACTED] thus, for example, Table 4  
[REDACTED] indicates that [REDACTED]

~~TARGETING PRIORITIES~~

17. (U) The method used by the Joint Strategic Target Planning Staff (JSTPS) to determine the importance of enemy installations is identified as [REDACTED] This system is comprised of two parts.

18. (TQ) [REDACTED] This system is concerned with the [REDACTED]

[REDACTED] selected from the Eurasian TDI\* for inclusion in the NSTDB.\*

a. To accomplish the objectives stated in the NSTDP, the [REDACTED]

[REDACTED]  
For example,

\* See glossary for definition

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

[REDACTED] These supplemental  
points may be a collection of [REDACTED]

c. Some examples of basic points assigned  
[REDACTED] are as follows:

TASK ALPHA

Installation

Basic Points Assigned Each\*

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

TASK BRAVO

Installation

Basic Points Assigned Each\*

16 17 18 19 20 21 22 23 24 25 26 27 28 29

19. (TS)

This  
U/I system is based upon an original [REDACTED] points which  
were used as an arbitrary starting point as follows:

\* Reference paragraph 20, for further discussion of targeting  
priorities between tasks as actually applied in planning.  
Basic points assigned, while indicating relative importance,  
do not indicate the [REDACTED]

TOP SECRET - SENSITIVE

II-13

Part I  
Appendix

~~TOP SECRET - SENSITIVE~~

Area

Points Assigned

Percent of Total

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

a. Data MGRDE lists and evaluates each [REDACTED]

b.

[REDACTED]  
In some categories, this approach is not  
applicable; therefore,

c.  
divides

The Target Data Inventory

d.

~~TOP SECRET - SENSITIVE~~

II-14

Part II  
Appendix

~~TOP SECRET SENSITIVE~~

e. In summary,

[REDACTED] Therefore, the more accurate  
approach is to consider the [REDACTED]

[REDACTED] However, a sample list by category is provided  
as follows:

NOTE: The objective of the Task CHARLIE attack is to

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

~~TOP SECRET SENSITIVE~~

II-15

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

Category	USSR		COMMUNIST CHINA		1 2 3 4 5 6 7 8 9 10
	Total Points	Destroyed Points	Total Points	Destroyed Points	
[REDACTED]					

f. Table 5 shows the expected  
 [REDACTED] from SIOP attack  
 option 4.

Table 5.

1/

Attack Option 4 [REDACTED]  
 with U.S. Forces on Day-to-Day Alert

Total Points	Destroyed	* Destroyed in Point Value
[REDACTED]	[REDACTED]	[REDACTED]
TOTAL		
TOTAL		

Expected Fatalities and Economic Worth Damaged

US Day-to-Day Alert Posture

Fatalities	Economic Worth
[REDACTED]	[REDACTED]

1. Deaths and damage due to [REDACTED]

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET - SENSITIVE~~

20. (TS) Priorities Between Tasks.

a. When determining the relative targeting priority between tasks, NSTAP serves as the guideline. The NSTAP states:

[REDACTED]

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

b. In view of this instruction, it is apparent that a

[REDACTED]

11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

21. (TS) Once the overall strategy and general guidelines have been established, preparation of the [REDACTED] (PPDE) will be initiated. The cornerstone of PPDE is the guidance provided by the Joint Chiefs of Staff in the NSTAP, which reflects

[REDACTED]  
PPDE is prepared using the best available

21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

~~TOP SECRET - SENSITIVE~~

II-17

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

[REDACTED]

As the plan is developed, the actual laydown  
of the plan is continually checked against the PPDE to insure  
that the final result will approximate the PPDE.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

SEQUENTIAL STEPS IN SIOP TARGETING

22. (TS) After the targets have been divided into tasks,  
priorities assigned to each target, and preplanned damage  
expectancies assigned to each target, the following steps in  
sequence are taken to assign weapons to individual targets.

a.

[REDACTED] in Tasks ALFA and  
CHARLIE under the conditions of Attack Option 4  
[REDACTED] in the following sequence: (1) [REDACTED]

\* See glossary for definition.

~~TOP SECRET - SENSITIVE~~

b. After assigning the alert forces under Attack Option 4  
to targets in Tasks ALPHA and CHARLIE,

[REDACTED]

1  
2  
3  
4  
5  
6  
7

c. Next the [REDACTED] are  
assigned in Attack Option 1 to targets in Tasks ALPHA, BRAVO,  
and CHARLIE to achieve the [REDACTED]

[REDACTED]

8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

d. The next step is to apply the remaining nonalert sorties  
against Tasks ALPHA, BRAVO, and CHARLIE targets in order to  
attempt to meet the [REDACTED]  
These nonalert sorties [REDACTED]  
for Attack Options 2, 3, and 4 as were established  
under Attack Option 1.

[REDACTED]

19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

e. Finally,

[REDACTED]

[REDACTED] are used in the SIOP to:<sup>\*</sup>

[REDACTED]

\* Reference Paragraph 38 for a description of the relationship  
of the SIOP to NATO Theater Nuclear Strike Forces.

~~TOP SECRET - SENSITIVE~~

DEFENSE SUPPRESSION

23. (TS) [REDACTED]

[REDACTED]  
assumes that

Current SIOP planning

24. (TS) [REDACTED]

25. (TS) Because of the large number and hardening of

targeted. Approximately

are targeted

in US day-to-day alert posture. All

Although about

are

uncovered, at least

in each group of

is targeted. The targeting technique used to

attack the

of target is

~~TOP SECRET - SENSITIVE~~

II-20

Part II  
Appendix

(Revised by Revision - 23 April 1971)

DEGRADE ANALYSIS

27. (TS) When SIOP forces are applied to the target system,  
[REDACTED] factor, [REDACTED]  
In view of this [REDACTED]
28. (U) Table 6 indicates the results when it is assumed  
that major components are degraded in plan execution. For the  
above reasons, these results should be considered only in  
this context as gross approximations and should not be used  
as indicators of relative effectiveness of major SIOP force  
components.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

~~TOP SECRET - SENSITIVE~~

II-21

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

79. (T9) Table 6 also shows degrading results for three scenarios:

Assuming failure of the [redacted] the  
Task ALPHA programmed for attack decreases to [redacted] with  
a revised [redacted]

(NOTE: [redacted])

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

~~TOP SECRET - SENSITIVE~~

II-22

Part II  
Appendix

DEGRADE RESULTS

TOTAL SIOF

Targets Attacked

Targets Attacked

Targets Attacked

TASK A

TASK B

TASK C

TOTAL

TASK A

TASK B

TASK C

TOTAL

TASK A

TASK B

TASK C

TOTAL

~~TOP SECRET - SENSITIVE~~

J1-23

Part II  
Appendix

10. (S) Generally, except when bombers fail,

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

This is  
executed because bombers provide nearly half of the weapons  
programmed.

31. (S) It also should be noted that the

This is

This is a

to provide

greater overall reliability in the SIOP.

#### SIOP EXECUTION

32. (S) Successful execution of the present SIOP depends on

Three:

additional factors are:

to accomplish the critical steps in the execution of the SIOP.

33. (S) National Command Authorities. To execute the SIOP,  
it is intended that [REDACTED] will  
make the following decisions:

~~TOP SECRET - SENSITIVE~~

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

The central decision problem in [REDACTED]

FUNCTIONAL SUPPORT

34. (S) Command Centers

a. All key fixed command centers which support the NCA and the commanders of unified and specified commands who have SIOP-committed forces, concerning [REDACTED]

[REDACTED]  
It is estimated that any of our fixed command centers can be destroyed with [REDACTED]

Survivability

could be increased through [REDACTED]

~~TOP SECRET - SENSITIVE~~

I-29

Part II  
App. Aix

(Revised by Decision - 23 Apr-1961)

~~TOP SECRET - SENSITIVE~~

[REDACTED] Only under a worst-case scenario,  
using the current threat (less than [REDACTED])

[REDACTED] Even in this scenario, the  
continuously airborne CINCSAC airborne command post (ABNCP) has  
the capability to make contact with [REDACTED]  
The CINCSAC ABNCP and, when once airborne, the NEACP are highly  
survivable for [REDACTED] hours and up to [REDACTED] hours with air  
refueling.

b. All US command centers have the  
[REDACTED]  
problems are:

The major  
[REDACTED]

35. (S) Sensors and Warning Systems. Surveillance systems  
must have the capability to [REDACTED]  
[REDACTED] It is essential that the  
[REDACTED]  
Also, in order for the NCA to make a timely decision as  
to whether or not to execute the SIOP, and if so, which options to

\* See glossary for definition

~~TOP SECRET - SENSITIVE~~

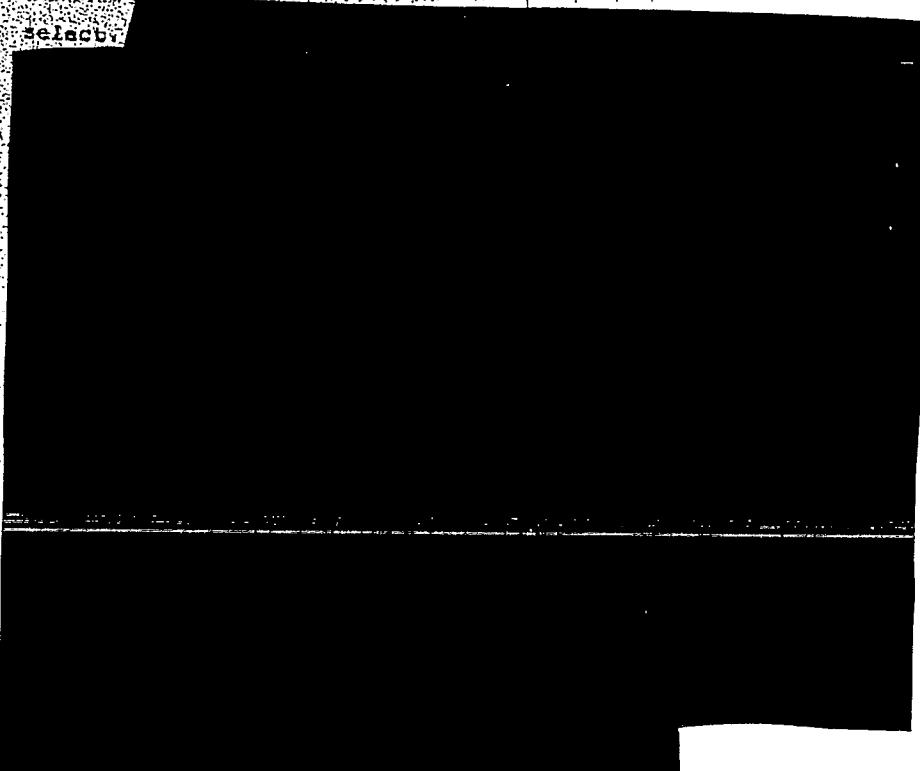
II-26

(Revised by Decision - 23 April 1971)

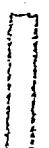
Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

Select:

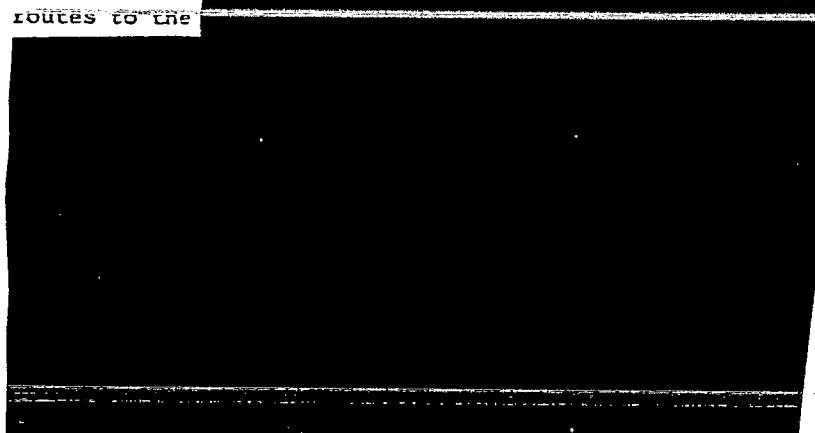


1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31



36. (S) Communications

a. Complex and widely diversified communication systems are employed to support the current strategic offensive forces employed in the SIOP. The primary communication routes to the [redacted]



\* See glossary for definition

~~TOP SECRET - SENSITIVE~~ II-27

PART II  
APPENDIX

(Revised by Decision - 23 April 1971)

~~TOP SECRET - SENSITIVE~~

b. In the Strategic Air Command (SAC), aircraft with  
this capability are an integral part of the Post Attack  
Command Control System (PACCS). \* The PACCS is comprised of

[REDACTED] The PACCS provides:

(1) [REDACTED]

(2) The capability to [REDACTED]

(3) [REDACTED]

(4) The capability to [REDACTED]

c. TACAMO is [REDACTED]

TACAMO aircraft are either [REDACTED]

\* See glossary for definitions.

\*\* TACSATCOM capability in C7 71. Also, see glossary for definition.

~~TOP SECRET - SENSITIVE~~

II-28

Part II  
Appendix

~~TOP SECRET SENSITIVE~~

The Joint Chiefs of Staff have validated the requirement for

[REDACTED]

However, it is  
possible that, until further improvements are made, some [REDACTED]  
may not receive the execution message in a timely fashion.

d. The ERCS can be used to disseminate the SIOP execution  
order,

[REDACTED]

OTHER FLEXIBILITY PROVIDED IN THE SIOP AND OTHER PLANS

37. (S) There are available other options which may use SIOP  
forces. Although there is

[REDACTED]

\* See glossary for definitions.

~~TOP SECRET SENSITIVE~~

II-29

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

procedures, communications, computer and display capability, and a staff required for this purpose. Additionally,

38. (u) The Relationship of the SIOP to NATO Theater Nuclear Strike Forces

a. General:

(MC 14/3) adopted in 1967 requires

make efficient use of Allied military forces in war.

To

A brief description

of related plans follows:

b. SACEUR's General Nuclear Response Programs which are coordinated with the SIOP.

(1)

The [redacted] has

is

~~TOP SECRET - SENSITIVE~~

II-30

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

(2)

c. SACLANT General Nuclear Response Programs. Of these programs, only

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

~~TOP SECRET - SENSITIVE~~

II-31

Part II  
Appendix

~~TOP SECRET - SENSITIVE~~

6. In summary, NATO nuclear strike forces make an essential military contribution both to [REDACTED]

[REDACTED] In addition,

however, they provide the most significant earnest of US intentions to fulfill the one obligation which is [REDACTED]

[REDACTED]  
In consequence the political implications of the NATO nuclear strike force capability are profound.

OTHER NUCLEAR OPERATIONS PLANS

39. (TS S) General.

a. These operations plans contain provisions for [REDACTED]

b. [REDACTED]

~~TOP SECRET - SENSITIVE~~

IT-32

Part II  
appendix

~~TOP SECRET - SENSITIVE~~

[REDACTED]

The procedures  
to be used by the commanders of unified commands,

[REDACTED]  
and the manner in which the Joint Chiefs of Staff will  
respond to such requests, are described in Emergency Action  
Procedures of the Joint Chiefs of Staff.

c. Under

[REDACTED]

[REDACTED]  
example would be

[REDACTED]

An

d. General Release of Nuclear Weapons. Normal war plans  
also provide for the use of [REDACTED]

[REDACTED]

~~TOP SECRET - SENSITIVE~~

40. (TS) Relation to the SIGP

b. In some cases

b. Many of the planned targets are identical with

c. If subsequent to NCA approval of

a SIGP

d. Commanders of unified and specified commands will coordinate [REDACTED] with each other.

e. [REDACTED]

~~TOP SECRET - SENSITIVE~~

II-4

Part II  
Appendix

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34

~~SECRET//NOFORN~~

PART III  
RELATIONSHIP AMONG NSDM-16 CRITERIA, SIOP TARGETING  
OBJECTIVES AND OTHER POTENTIAL CRITERIA  
FOR FORCE PLANNING

INTRODUCTION

1. (U) Considering the foregoing review of the Single Integrated Operational Plan (SIOP), some further observations are necessary to understand the relationship among the NSDM-16 criteria for strategic sufficiency, the SIOP targeting objectives and force capabilities as applied to the SIOP, other criteria of potential importance in determining strategic force posture, and the measurements used in the analysis of future forces in Part V hereto.

NSDM-16 CRITERIA AND THE SIOP

2. (S) The NSDM-16 criteria deal explicitly with US planning guidance which seeks to develop forces to

a. Regarding the first criterion on

b. Regarding the second criterion on

(See Table 4, Part II.)

~~SECRET//NOFORN~~ 11-1

Part III  
Appendix

~~SECRET - SENSITIVE~~

c. The third criterion concerns [REDACTED]

[REDACTED] This criterion is mean-

ingful in national strategy in the [REDACTED]

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

uses current SIOP targeting policy [REDACTED]

This analysis [REDACTED]

[REDACTED] Therefore, the capabilities of forces to satisfy this criterion could not be quantified.

d. The fourth criterion on [REDACTED]

[REDACTED] But, defenses deployed in support of [REDACTED]

this criterion can improve the survivability of [REDACTED]

3. (U) Thus, the NSDM-16 criteria for strategic sufficiency are intended to provide guidance for strategic force planning, and do not provide complete measures for assessing capabilities of US Forces as applied in the SIOP.

4. Conversely, [REDACTED]

\* The third criterion may include military objectives from the [REDACTED]

~~TOP SECRET - SENSITIVE~~

5. Your current forces are capable of meeting SIOP targeting objectives with certain limitations.

a. As indicated in Part II, the SIOP,

[REDACTED]

The data in Part II  
shows that current forces can effectively destroy [REDACTED]

[REDACTED]  
However, the United States has limited capability

b. Because of the large number of Soviet

[REDACTED]  
the attack of this target category in its entirety is not feasible. For example, Table 4, Part II, shows that

[REDACTED]  
After absorbing a Soviet first strike, the United States

c. While having this limited capability against Soviet

[REDACTED]  
in Task ALPHA, i.e.,

[REDACTED]  
Against these target categories, Table 4, Part II shows that

~~TOP SECRET - SENSITIVE~~

III-3

Part III  
Appendix

Task ALPHA range 10%

percent in

and

percent from

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

In this task are programmed for attack by nonalert weapons. The same is true for those Task BRAVO [REDACTED] restrained to Task CHARLIE for execution. In US retaliation from a generated alert posture, due to generation of the [REDACTED]

d. However, even against these [REDACTED]

as indicated [REDACTED]

in the following table:

TABLE 1

TASK	TOTAL INSTALLATIONS	INSTALLATIONS ATTACKED	LARGETED (AIMING POINTS)
ALPHA	[REDACTED]	[REDACTED]	[REDACTED]
BRAVO	[REDACTED]	[REDACTED]	[REDACTED]
CHARLIE	[REDACTED]	[REDACTED]	[REDACTED]

e. The foregoing brief review of SIOP damage expectancies and coverage [REDACTED]

\* See glossary for definition

\*\*

TOP SECRET

SENSITIVE

111-4

Part III  
Appendix

(Revised by Decision - 23 April 1971)

1. (S) NEON-16 criteria focus primarily on capabilities for

2. [REDACTED] are not indicated and may only be implied.

3. Therefore, there is cause for concern about using only these  
4. criteria in planning for future forces because, by doing so,  
5. shortfalls such as indicated above are likely to continue and  
6. to increase if the Soviets continue to build their forces as  
7. projected.  
8. [REDACTED]

9. 2. In this connection, the Joint Chiefs of Staff believe  
10. that [REDACTED]

11. Additionally,

12. they have stated that [REDACTED]

13. Because [REDACTED]

14. 6. (S) In addition to [REDACTED]

15. [REDACTED]  
16. three such criteria, considered  
17. pertinent in the context of this analysis, are [REDACTED]

18. \* See next page

the next section will discuss aspects of deterrence  
below the level of general war as follows (Page 12 and 13).

These [redacted] influences can be grouped as follows:

(1) Those which decrease the incentive to attack. One  
measure which the United States could take is to

[redacted]  
(2) Defense Military Influences.

(3) Offense Military Influences. Offensive capabilities  
provide the

prospect that the

Finally, there is the

Also, highly survivable offensive systems  
not only contribute to

Probably the

DEFENSE RESPONSE

Q. Are current war plans and force levels provide

In

the JSOP?

also

The National Command Authorities may

10. 16) However, the need for a

options may be required by the National Command Authorities and  
is considered a current issue in strategic force planning\*: this  
could include

a.

\* 1. In JSOP FY 73-80, the Joint Chiefs of Staff stated that:

Page II-13)

2. On 28 November 1969, the NSSM-64 Study was provided by the  
Joint Chiefs of Staff to the Secretary of Defense. This study  
addressed the capabilities of US strategic forces

(JCSM-729-69, subject: National Security Memorandum 64).

3. In the President's report to the Congress, "US Foreign  
Policy for the 1970s," dated 25 February 1971, in discussing  
strategic policy and forces, this statement appears: "...

[REDACTED]  
d.  
[REDACTED]  
and  
e.  
[REDACTED]  
[REDACTED]  
It might also include

11. (TS) In this connection, a recent study forwarded to  
the Secretary of Defense by the Joint Chiefs of Staff noted  
that, "The credibility and reliability of the overall NATO  
deterrent rests on a mutually complementary relationship

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

among adequate in-being capabilities for [REDACTED]

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

An adequate capability in each of these three areas complicates planning problems posed to the Warsaw Pact leaders. Without these capabilities, [REDACTED]

12. (S) Providing the National Command Authorities with a capability for a wider range of [REDACTED]

13. (S) Recognizing certain limitations, [REDACTED]

\* JCSM 71-71, dated 27 February 1971, subject: "Concept for the Employment of Tactical Nuclear Weapons in Europe (U)."

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17

15. (S) Major force decisions which affect the viability and effectiveness of a strategic offensive force component; such as force modernization or survivability improvements or lack thereof,

\* In the JSOP FY 73-80, the Joint Chiefs of Staff stated that:

(Vol II, Book II - Page II-13, 14)

\*\*The NSSM-64 Study provides an in-depth

SUPPORT TO ALLIES

16. (b) In his Foreign Policy Report of 18 February 1970,  
the President stated that "we shall provide a shield if a  
nuclear power threatens the freedom of a nation allied with  
us, or of a nation whose survival we consider vital to our  
security and the security of the region as a whole." On 25  
February 1971, the President, in his report to the Congress,  
"United States Foreign Policy for the 1970s," stated "We will  
provide the nuclear shield of the Nixon Doctrine." These state-  
ments indicate a continuing role for the contribution of  
strategic nuclear forces in deterring attacks on US allies.

17. (b)

In the SIOP, we currently

18. (b) On the other hand, there is increasing doubt that the  
threat of large strategic nuclear strikes

~~TOP SECRET SENSITIVE~~

19. (TS) Our primary support to allies is in the form of forward-deployed forces with [REDACTED] with the capability to quickly deploy additional CONUS-based forces when necessary. Beyond this, there are three ways that [REDACTED] support our allies.

a. [REDACTED]

b. [REDACTED]

c. A US capability which could support a wider range of [REDACTED]

DIPLOMATIC SUFFICIENCY

20. (S) Another aspect of the relationship between US strategic nuclear forces and support to our allies is that of [REDACTED]

[REDACTED] In NSDM-95, the President noted that the Soviets have recently been attempting to influence US allies by claims of Soviet superiority in numbers and characteristics

~~TOP SECRET SENSITIVE~~

TII-12

Part III  
Appendix

~~TOP SECRET - SENSITIVE~~

of strategic options. He stated that we should continue to

21. (3)

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

~~TOP SECRET - SENSITIVE~~

III-13

Part III  
Appendix

~~TOP SECRET SENSITIVE~~

22. (S) The visible manifestations of the SIOP forces would have an important function in satisfying this criterion. The presence and size of US strategic forces on alert on land and at sea, and if necessary, airborne, have potential [REDACTED]

[REDACTED] In time of crisis,

criterion because of the uncertainties in the possible Soviet threats.

23. (S) A recent study has focused on the survivability of each offensive force component and has [REDACTED]

24. (U) Visible evidence of quantitative sufficiency might include [REDACTED]

\* Strategic Systems Survivability Study, a study prepared for the Chairman, Joint Chiefs of Staff and forwarded to the Secretary of Defense (JCSM 89-71, 1 March 1971.)  
\*\* NSDM-95

~~TOP SECRET SENSITIVE~~

III-14

Part III  
Appendix

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

~~TOP SECRET - SENSITIVE~~

evidence or qualitative sufficiency might be the degree of

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

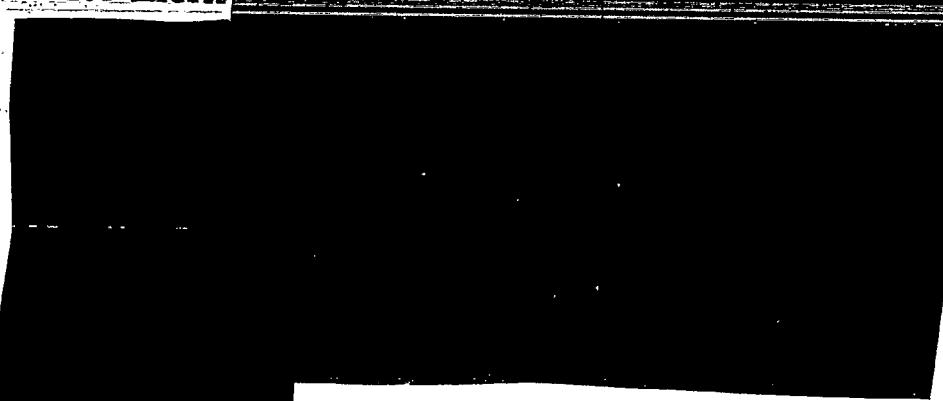
19

20

21

SUMMARY

28. (S) In summary, conservatism in the sizing and structuring  
of US strategic forces and in planning against the high side of  
Soviet threats



~~TOP SECRET - SENSITIVE~~

PART IV

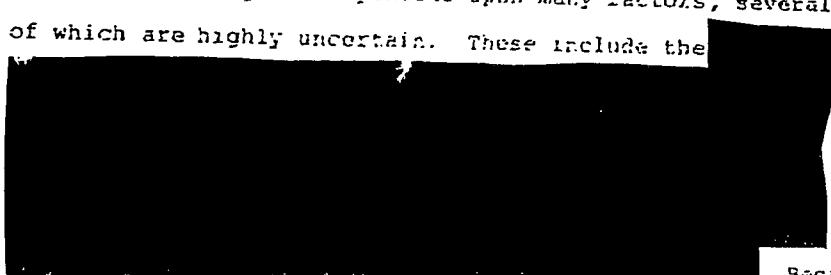
THE FORCE MIX CONCEPT

INTRODUCTION

1. (S) The United States currently has a mix of three strategic offensive force components: bombers, land-based ballistic missiles, and sea-launched ballistic missiles. This mix of forces, with its diversity in basing modes, survivability mechanisms and attack methods, and capabilities for mutual support, provides high confidence against planning uncertainties. Additionally, in the Single Integrated Operational Plan (SIOP) these forces provide a significant capability against some Soviet military target systems which may be critical in the assessment of strategic balance between the United States and the Soviets. Further, there are potentialities in each force component for improved flexible response capabilities which the United States may require in future forces. As amplified in the following rationale, these capabilities and potentials merit careful consideration in any proposed reduction or restructuring of strategic forces.

FORCE MIX RATIONALE

2. (TS) Mutually Supporting Mix

- a. The effectiveness of US strategic offensive forces in a nuclear exchange is dependent upon many factors, several of which are highly uncertain. These include the
- 
- Because  
of these uncertainties, the United States attempts to maintain

~~TOP SECRET - SENSITIVE~~

IV-1

Part IV  
Appendix

(Revised by Decisich - 23 April 1971)

~~TOP SECRET - SENSITIVE~~

confidence in the capabilities of strategic offensive forces  
by having a deterrent capability provided by a mix of  
mutually supporting strategic forces (land- and sea-based  
missiles, and bombers). Such a force mix provides:

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

For example,

~~TOP SECRET - SENSITIVE~~

IV-2

Part IV  
Appendix

~~TOP SECRET - SENSITIVE~~

element does not fully reflect the problem faced by an adversary in trying to cope with a mixed US Force. Forces with different methods for pre-launch survivability and different modes of penetration produce difficulties for an adversary who might consider an attack on the United States. For this reason,

[REDACTED]

3. (TS) Importance in the SIOP. These benefits of a mix of mutually supporting forces primarily relate to uncertainties about future Soviet force developments and future performance of US weapons systems. The mix also has significant advantages in relation to the SIOP, especially in warfighting capabilities.

a.

[REDACTED]

b.

[REDACTED]

c.

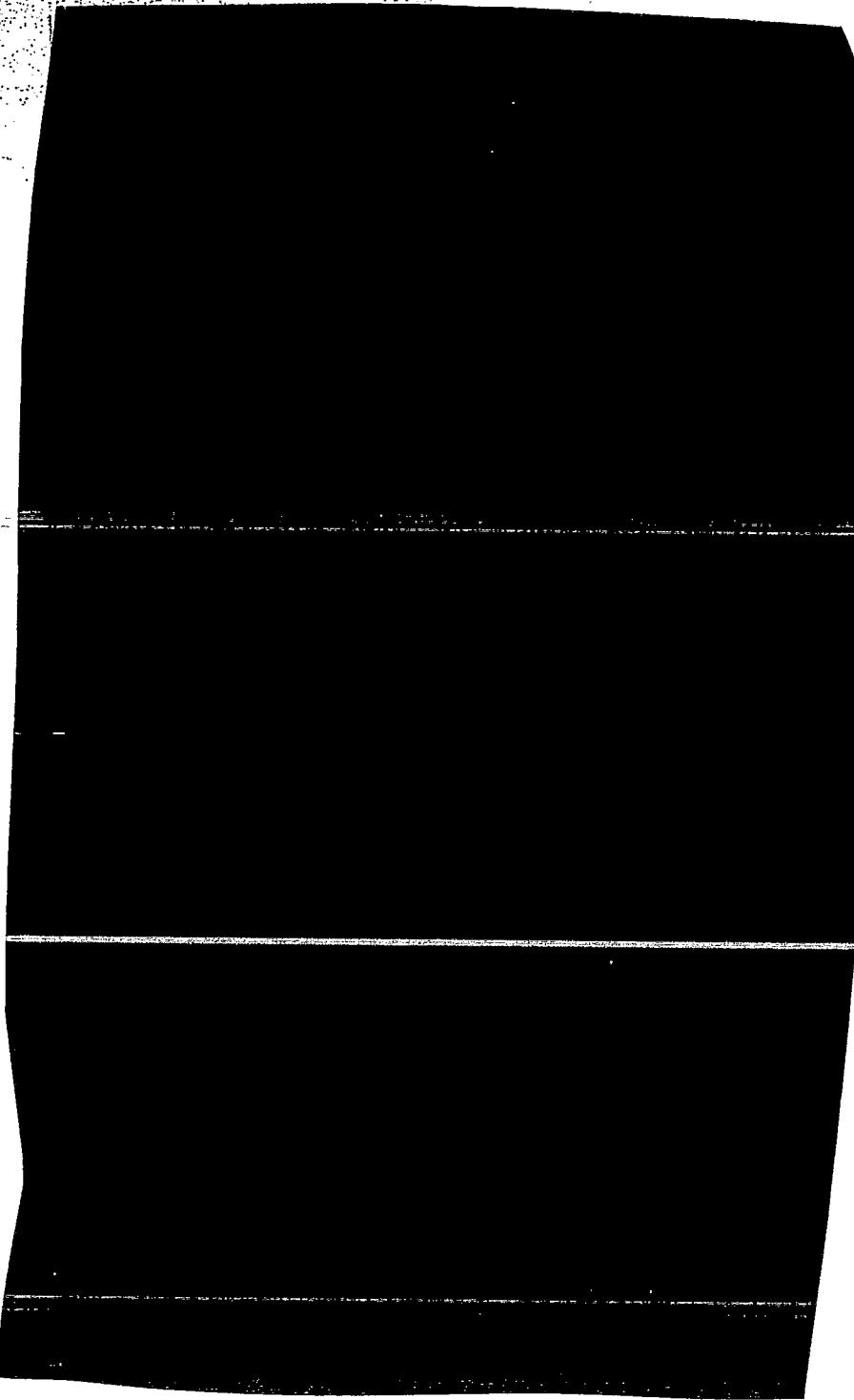
[REDACTED]

4. (S) Contribution of Each Force Component to Flexible Response Capability.

a. Bombers

(1) Strategic bombers have unique capabilities for flexible responses, for conducting limited nuclear exchanges, and providing nuclear support for our allies because of: (a) [REDACTED]

~~TOP SECRET SENSITIVE~~



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

~~TOP SECRET SENSITIVE~~

IV-4

Part IV  
Appendix

~~TOP SECRET - SENSITIVE~~

b. Land-based Missiles

(1) The strategic land-based missile force has the capability for [REDACTED]

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29

c. Sea Launched Ballistic Missiles (SLBM). SLBMs possess an inherent capability for [REDACTED]

~~TOP SECRET - SENSITIVE~~

IV-6

Part IV  
Appendix

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17

~~TOP SECRET - SENSITIVE~~

PART V

FUTURE FORCE ANALYSIS

INTRODUCTION

(U) Considering the unresolved planning issues as discussed in Part I and the differences in purposes between the Single Integrated Operational Plan (SIOP) targeting objectives and the NSDM-16 criteria as discussed in Part IV, two approaches can be taken to future strategic force planning: (a) one which focuses on measuring force capabilities in terms of relative capabilities of US and Soviet forces to inflict [REDACTED]

[REDACTED] and (b) one which measures all warfighting capabilities, i.e., capabilities against the [REDACTED] of a potential enemy and against a comprehensive military target system. The latter approach could include measures to parallel SIGP targeting objectives. It is used in the following future force analysis.

2. (TS) To parallel the SIOP in wargaming, the quantitative measurements applied in planning future forces may include [REDACTED]

These measurements are used as the basis for judgements made in the findings and conclusions on force capabilities, which is contained in the following paragraph 6.

3. (U) The basis for these findings and inclusions is an analysis by the Studies, Analysis, and Gaming Agency (SAGA),

\* See glossary for definition

~~TOP SECRET - SENSITIVE~~

V-1

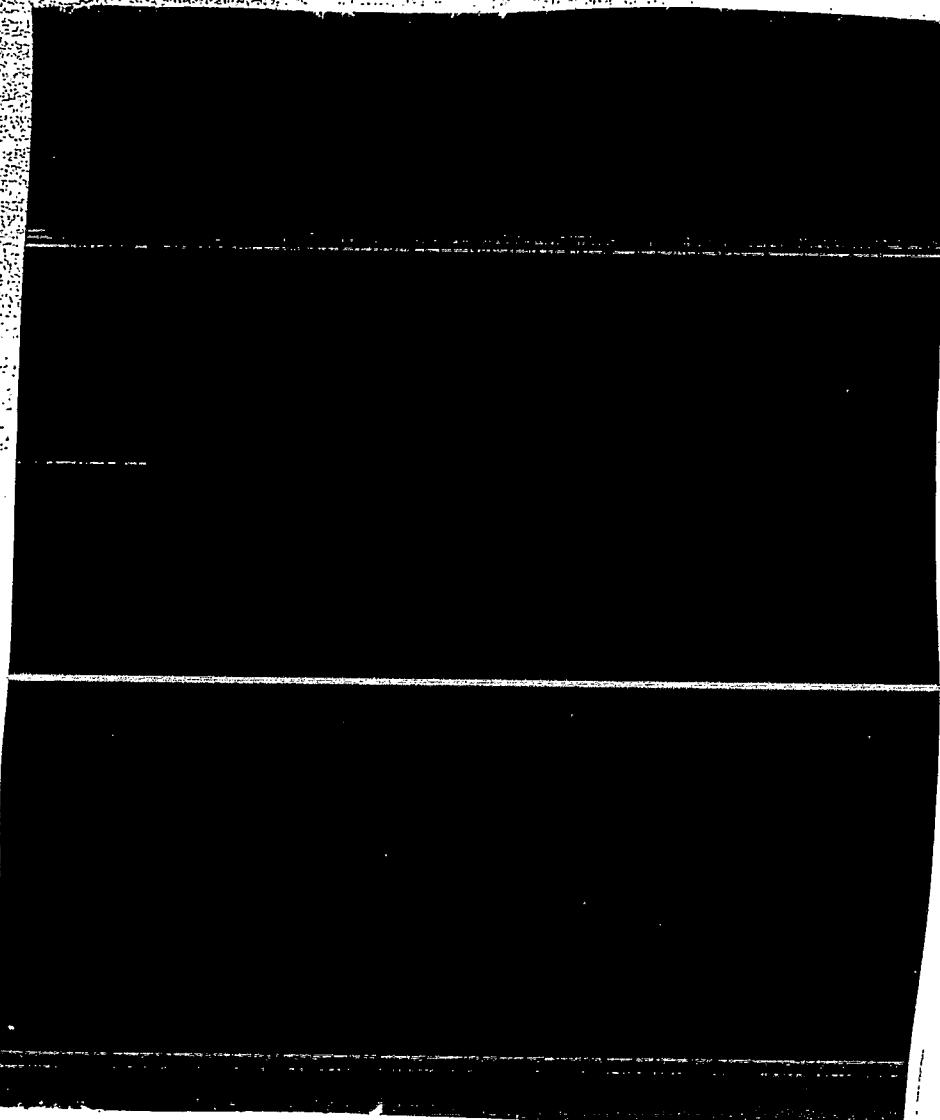
Part V  
Appendix

(Revised by Decision - 23 April 1971)

~~TOP SECRET - SENSITIVE~~

Organization of the Joint Chiefs of Staff, which is contained in Annex A. Section 1 was performed using the computer model, Version 13200, Aggregated Multiple Attack Program (VALIMAR).

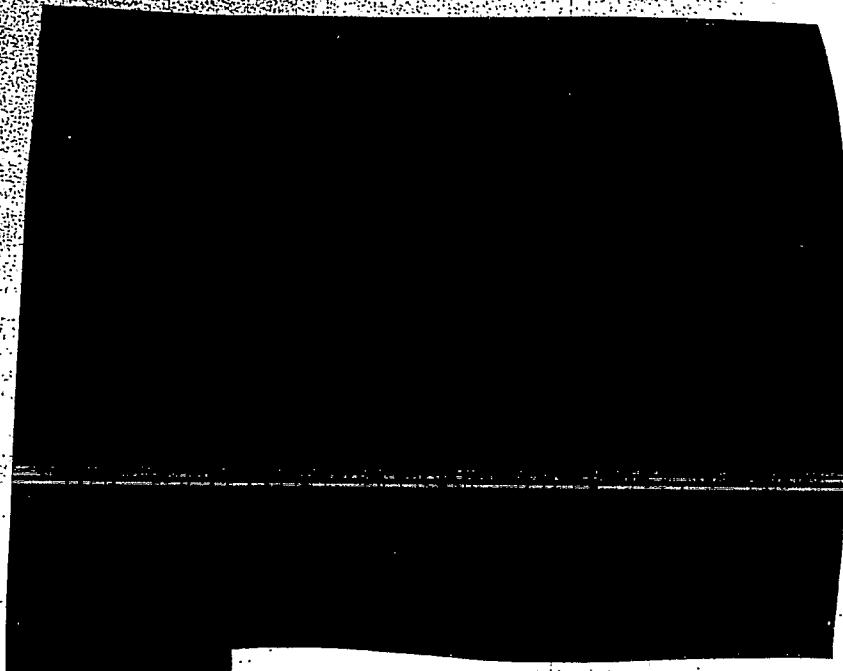
Annex C contains a discussion of certain test runs with the model in preparation for the force calculations, as well as some cautionary comments regarding aggregated models in general, when used in strategic force capability calculations.



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

\* See Figures B-1 and B-2, Annex B for US Force structures.

Other VILLIAR model limitations constrained real world simulation as follows:



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

- c. FY's 1974 and 1979 were considered in the SAGA analysis. The threats used were from the National Intelligence Projections for Planning for 1970 (NIPP-70): the Soviet High Numbers - Low Technology (HI-LO) and High Numbers - High Technology (HI-HI) threats.\* For FY 1974, only the Soviet HI-LO threat was examined. US Force capabilities against the Soviet HI-HI threat were not evaluated because the analysis of capabilities against the HI-LO threat is adequate to indicate US Force limitations and because the differences between the Soviet HI-LO and HI-HI threats in 1974 are not sufficient to make significant differences in war outcomes.
- d. Each of the 2 years was examined using the scenario scheme as follows.

\* The NIPP-70 was used rather than the Defense Intelligence Projections for Planning for 1971 (DIPP-71) because the latter projections were not available when the analysis was performed.

8. Key assumptions and planning factors used in the analysis are as follows:

(1) [REDACTED] Damage Objectives. The VALIMAR

program was so addressed that both sides engaging in the war game were required to achieve their respective [REDACTED]

[REDACTED] damage objectives to be eligible to receive credit for damage to the military target systems.

(2) [REDACTED] Damage Objectives. The values of

[REDACTED] damage are assumed as targeting objectives of both sides.\* Fatalities are based on [REDACTED] damage to [REDACTED]

Since areas of greatest manufacturing density are collocated with areas of greatest population density, the level of [REDACTED]

Desired damage level for military targets is [REDACTED] In a case where this level is achieved on all military target classes, [REDACTED]

In such cases, the objective of [REDACTED] will be exceeded.

(3) Missile Strike Attacks. Soviet missile targeting rationale followed that of the Red Integrated Strategic Offensive Plan for 1969 (RISOP-69).\*\* That is, US missile

\* RISOP-69. A JCS approved hypothetical RED war plan based on Soviet capabilities as stipulated in current approved intelligence and used primarily for wargaming the STOP, Revision F. The RISOP-69 was a Soviet capability plan and does not represent a judgement as to the courses of action the Soviets are most likely to select nor is it an attempt to predict Soviet intent.

U.S. was attacked when the Soviets preempted but were not attacked in retaliation.

...attacked in retaliation

(b) (5) Withholds

- f. Further details are contained in Annex B.

4. (U) In addition to the SAGA Wargame analysis, there is a comparison of US and Soviet Forces to evaluate the criteria of diplomatic sufficiency; i.e., the visible capability of US strategic forces to counter the Soviet threat;

SUMMARY OF FINDINGS AND CONCLUSIONS

## 5. ~~test~~ General Findings

- a. With the US Current Program re-evaluation of the resources forces against the Soviet HI-LO or HI-HI threat.

- b. In all cases, except with the USCR force in 1979 with us Forces generated, the Soviets retain significant levels of residual military resources.\* In 1979, there is generally

\* See definition in glossary.

~~THE SUPPORTS OF THE STATE~~

10

(Revised by Revision 23 April 1971)

۱۲۷

[REDACTED] (See Figures BA-10 and BA-11, Annex B herefor).  
c. The United States can achieve an advantage.

d. In all cases, the Soviets have greater hard target capabilities. With the Soviet HI-HI force, this capability is significantly greater, [REDACTED] In 1979, with the Current Program or the Limited Reduction Program or Reduced Program against the Soviet HI-HI threat, [REDACTED]

In all Soviet preemption cases with the HI-HI force in 1979, 800 to 900 US ICBMs are destroyed.

e. Both the United States and the Soviets can [REDACTED]

f. Only the JSOP force can provide the United States with [REDACTED]

\* Includes targets in continental United States. [REDACTED]  
Not included are approximately [REDACTED] which might also be considered by the Soviets as targets for strategic forces.  
The significantly larger numbers of USSR hard targets (i.e., ICBMs, IR/MREMs, and nuclear storage facilities) in the FY 1979 base and the larger USSR base in other military targets are important factors and should be considered when comparing relative capabilities of each country to damage the other's [REDACTED]. See page 2, B-92,

TOP SECRET - SENSITIVE

[REDACTED] Figures BA-12

FIG. BA-11

6. (S) Findings in terms of Targeting Objectives in the STOP.  
a. With any of the forces considered,

- b. The United States could, in all cases, destroy or neutralize [REDACTED]  
c. With any of the forces considered, the United States could not significantly limit damage to [REDACTED]  
d. With either the Current Program, Limited Reduction Program or Reduced Program [REDACTED]

7. (S) Finding as to Diplomatic Sufficiency. Considering numerical comparisons with projected Soviet Forces, the Soviets would have advantages in all measurements except in number of warheads.

FINDINGS FOR SPECIFIC FORCES

8. (RS) General.

- a. While the output of the VALIMAR computer model is useful for comparing relative capabilities of forces and for indicating general effects of adjustments in force mixes, the findings of such analysis as in this study should be viewed with caution in determining total capabilities of a single

\*

TOP SECRET - SENSITIVE

V-7

Part V  
Appendix

force in any final decision on force levels and structure.

In all cases in all years, the VALIMAR computer model indicates [redacted]

Additional findings are contained in the following paragraphs.

9. (TS) FY 1974 Against the Soviet HI-LO Threat. With any of the four US Forces considered, the United States:

c. Can satisfy NSDM-16 criteria 1 and 2.

10. (TS) FY 1979 Against the Soviet HI-10 Threat.

a. With the ISOF force, the United States.

(3) Can satisfy NEDM-16 criteria 1 and 2.

~~TOP SECRET~~ - SENSITIVE

17

## Part V Appendix

b. With the Current Program, the Limited Reduction Program,  
or the Reduced Program, the United States:

(3) Can satisfy NSDM-16 criteria 1 and 2.

11. ~~MIS~~ FY 1979 Against the Soviet HI-HI Threat

a. With the JSOP force, the United States:

(3) Can satisfy NSDM-16 criterion 1.

(4) Cannot insure under criterion 2, because of the

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33

~~TOP SECRET//COMINT//EYES ONLY~~

b. With the Current Program, Limited Reduction Program, or Reduced Program, the United States:

- (3) Can satisfy NSDM-16 criterion 1.
- (4) Cannot insure under criterion 2, because of the

SPREAD SHEETS AND SUMMARY ANALYSIS

12. (TS) The following Tables 1 through 9, in spread sheet form, contain the foregoing results of the wargaming analysis in terms of capabilities of US Forces [REDACTED]

[REDACTED] to [REDACTED]

~~TOP SECRET - COMINT//EYES ONLY~~

set by NSDM-16 Criteria 1 and 2, to achieve an advantage

1

2

3

4

5

6

7

Following the tables (by year and threat), there is a summary of qualitative judgments on the results of each scenario in the above terms. Appropriate references to the result analysis in Annex E are provided for more detailed study by the reader.

\* For definition of the column headed "TERMINATE WITH US RELATIVE ADVANTAGE," see definition

in the glossary.

~~TOP SECRET - SENSITIVE~~

V-11

Part V

Appendix

(Revised by Decision - 23 April 1971)

US FORCE CAPABILITIES - FY 1974  
 SOVIETS STRIKE FIRST - US IN DAY-TO-DAY POSTURE  
 HI-LO TRENDS

Source: Figures BA-1 and BA-10, Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDN-16 CRITERIA 1 & 2	REMARKS
I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
JSOP	[REDACTED]	[REDACTED]	YES	[REDACTED]
II	[REDACTED]	[REDACTED]	YES	[REDACTED]
III	[REDACTED]	[REDACTED]	YES	[REDACTED]
IV	[REDACTED]	[REDACTED]	YES	[REDACTED]

✓ In all cases, both sides can achieve

US FORCE CAPABILITIES - FY 1974  
SOVIETS STRIKE FIRST - BOTH SIDES IN ADVANCED READINESS  
FI-LO THREAT

Source: Figures BA-2 and BA-10, Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16 CRITERIA 1 & 2	REMARKS
I VSOP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
II CURRENT PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]
III LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]
IV REDUCED PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]

1/ In all cases, both sides can achieve

2/ Quantitative results are similar to US day-to-day cases except somewhat higher levels

TOP SECRET SENSITIVE

V-13

Part V  
Appendix

US FORCE CAPABILITIES - FY 1974  
US STRIKES FIRST - US AND SOVIETS IN ADVANCED READINESS  
HI-LO THREAT

Source: Figures IV-3 and Bn-10, Annex B

LANCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16 CRITERIA 1 & 2	REMARKS	
				1	2
I	ASOP		N/A		
	I I CURRENT PROGRAM		N/A		
	III LIMITED REDUCTION PROGRAM		N/A		
	IV REDUCED PROGRAM		N/A		

✓ In all cases, both sides can achieve

TOP SECRET - SENSITIVE

V-10

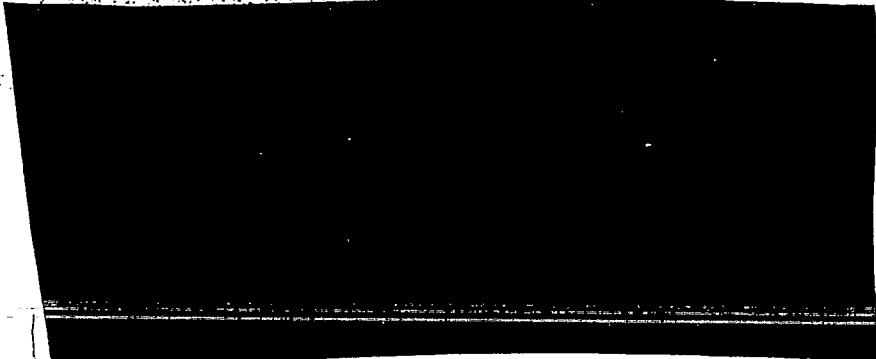
Part  
Part  
Part  
Part

~~TOP SECRET - SENSITIVE~~

13. (T) FY 1974 Capabilities Against Soviet HI-LO Threat

(Tables 1-3)

a. In all three scenarios with any of the four US forces,  
the results are similar. The United States:



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

b. In scenarios for US retaliation, US forces:

(1)

[REDACTED] and therefore are judged  
to be sufficient to satisfy NSDM-16 criterion 1; and,

(2)

[REDACTED] and therefore  
are judged to be sufficient to satisfy NSDM-16 criterion 2.

c.

[REDACTED]  
(See Figures SA-1, SA-2,  
SA-3, and SA-10, ANNEX B below, for further details.)

20  
21

~~TOP SECRET - SENSITIVE~~

7-15

Part 4  
Appendix

US FORCE CAPABILITIES - FY 1979  
 SOVIETS STRIKE FIRST - US IN DAY-TO-DAY POSTURE  
 HI-LO THREAT

Source: Pictures BA-4 and BA-10, Annex U

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSM-M-16 CRITERIA 1 & 2	REMARKS
	[REDACTED]	[REDACTED]	[REDACTED]	
I	[REDACTED]	[REDACTED]	YES	[REDACTED]
II	[REDACTED]	[REDACTED]	YES	[REDACTED]
III	[REDACTED]	[REDACTED]	YES	[REDACTED]
IV	[REDACTED]	[REDACTED]	YES	[REDACTED]

TOP SECRET SENSITIVE

V-16

Part 6  
Appendix

1. In all cases, both sides can achieve

US FORCE CAPABILITIES - FY 1979  
SOVIETS STRIKE FIRST - BOTH SIDES IN ADVANCED READINESS  
HI-LO THREAT

Source: Figures Bn-5 and BN-10; Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16	CRITERIA	REWARDS
I	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
JSOP	[REDACTED]	[REDACTED]	[REDACTED]	YES	[REDACTED]
II	CURRENT PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]
III	LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]
IV	REDUCED PROGRAM	[REDACTED]	[REDACTED]	YES	[REDACTED]

In all cases, both sides can achieve [REDACTED]

TOP SECRET - SENSITIVE

V-17

Part V  
Appendix

**US FORCE CAPABILITIES - FY 1979**  
**US STRIKES FIRST - BOTH SIDES IN ADVANCED READINESS**  
**H/L-O THREAT**

Source: Figures BA-6 and BA-10, Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	SSDM-16 CRITERIA 1 & 2	REMARKS
	[REDACTED]	[REDACTED]	[REDACTED]	
I ASOP	[REDACTED]	[REDACTED]	N/A	
II CURRENT PROGRAM	[REDACTED]	[REDACTED]	N/A	
III LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	N/A	
IV REDUCED PROGRAM	[REDACTED]	[REDACTED]	N/A	

1/ In all cases, both sides can achieve

~~TOP SECRET - SENSITIVE~~

14. (b) By 1979 Capabilities Against Soviet HI-LG Threat  
a. Soviet Strike First - US in Day-to-Day Posture (Table  
4). In the case of a Soviet surprise attack,

[REDACTED] With  
the Current Program, Limited Reduction Program, and Reduced  
Program,

[REDACTED] they are judged to be sufficient to satisfy  
NSDM-16 criterion 1. Because the US forces have a high  
degree of survivability, they are judged to be sufficient  
to satisfy NSDM-16 criterion 2.

(For further details see Figures BN-4 and BA-10, Annex B,  
hereto.)

b. Soviet Strike First, Both Sides in Advanced Readiness  
Posture (Table 5). In the case of a Soviet first strike  
with forces of both sides generated,

~~TOP SECRET - SENSITIVE~~

9-18

Part V  
Appendix

[REDACTED]  
In the cases of the other three US Forces,  
although US force capabilities against [REDACTED]

the Soviets

[REDACTED] can retain advantage in residual military resources. Again, this Soviet advantage becomes progressively greater as one considers, in turn, the Current Program, Limited Reduction Program, and Reduced Program. Damage to US military targets are similar to the case of the JSOP force. For the same reasons as in the previous scenario, US Forces are judged to be sufficient to satisfy NSDM-16 Criteria 1 and 2. Only with the JSOP force can the United States terminate [REDACTED]

[REDACTED] (For further details, see Figures BA-5 and BA-10, Annex B hereto.)

c. United States Strikes First, Both Sides in Advanced Readiness Posture (Table 6). In the case of US presumption,

2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

(For further details see Figures BA-6 and

BA-16, Annex B hereto.)

卷之三

~~TOP SECRET - SENSITIVE~~

v-21

## Part V Appendix

US FORCE CAPABILITIES - FY 1979  
SOVIETS STRIKE FIRST - US IN DAY-TO-DAY POSTURE  
HI-HI THREAT

Source: Figures BA-7 and BA-11, Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16	RENDERS
I JSOP	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
II CURRENT PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
III LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
IV REDUCED PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]

\* in all cases, both sides can achieve.

TOP SECRET - SENSITIVE

V-22

Part V  
Appendix

TOP SECRET - SENSITIVE  
US FORCE CAPABILITIES - FY 1979  
SOVIETS STRIKE FIRST - BOTH SIDES IN ADVANCED READINESS  
III-III THREAT

Source: Figures B-8 and B-11, Annex B

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16 CRITERIA 1 & 2	REMARKS
I JSOP	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
II CURRENT PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
III LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]
IV REDUCED PROGRAM	[REDACTED]	[REDACTED]	CRITERIA* NO. 1 ONLY	[REDACTED]

1/ In all cases, both sides can achieve [REDACTED]

US FORCE CAPABILITIES - FY 1979  
 US STRIKES FIRST - BOTH SIDES IN ADVANCED READINESS  
 HI-HI THREAT

Source: Figures BA-9 and BA-11, Annex D

FORCE	DESTROY SOVIET	DESTROY SOVIET	NSDM-16 CRITERIA 1 & 2	REMA-JCS
I JSOP	[REDACTED]	[REDACTED]	N/A	[REDACTED]
II CURRENT PROGRAM	[REDACTED]	[REDACTED]	N/A	[REDACTED]
III LIMITED REDUCTION PROGRAM	[REDACTED]	[REDACTED]	N/A	[REDACTED]
IV REDUCED PROGRAM	[REDACTED]	[REDACTED]	N/A	[REDACTED]

1/ In all cases, both sides can achieve

15. (TS) FY 1979 Capabilities Against Soviet HI-MI Threat

(Table 7) In the case of a Soviet surprise attack,

With the Current Program, Limited Reduction Program, or Reduced Program,

they are judged to be sufficient to satisfy NSDM-16 criterion 1. However, it cannot be assured under Criterion 2 that the Soviets would have no incentive to strike in a crisis, realizing the vulnerability of

(For further

details, see Figures BA-7 and BA-11 Annex B hereto.)

b. Soviets Strike First, Both Sides in Advanced Readiness Posture (Table 8).

[REDACTED] Similarly to the previous scenario, NSDM-16 criterion 1 can be satisfied. However, it cannot be insured under criterion 2, because of the lack of sufficient improvements to [REDACTED]

(For further details, see Figures BA-6 and BA-11, Annex B hereto.)

c. [REDACTED] Both Sides in Advanced Readiness Posture (Table 9). In the case of [REDACTED]

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

~~TOP SECRET - SENSITIVE~~

(For further details,

see Figures BA-9 and BA-11, Annex B hereto.)

US VS SOVIET HARD TARGET AND COUNTERFORCE CAPABILITIES

16.. (NS) Appendixes A and B of the SAGA analysis in Annex B  
hereto contain additional calculations designed to further reveal  
the relative [REDACTED]

[REDACTED] and the Soviet HI-LG and HI-HI threat forces.

Results are summarized as follows:

a. Comparison of US and Soviet Capabilities Against [REDACTED]

[REDACTED] The increase in average yield of the Soviet missiles  
over the US missiles, as projected in the Soviet HI-HI and  
HI-LG forces, provides the Soviets with a

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

~~TOP SECRET - SENSITIVE~~

V-27

Part V  
Appendix

~~TOP SECRET - SENSITIVE~~

[Redacted]  
(See Appendix A, Annex B hereto.)

b. Comparison Of US and Soviet Counterforce Capabilities.  
To examine the relative counterforce capabilities in damage limitation considering the foregoing disparities in [Redacted]

[Redacted]  
(See Appendix B, Annex B hereto.)

DIPLOMATIC SUFICIENCY

17. (U) Table 10 provides a comparison of the US and Soviet forces used in this analysis in terms selected for their evident

~~TOP SECRET - SENSITIVE~~

V-28

Part V  
Appendix

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32

visibility, i.e., delivery vehicles, warheads, megatons, equivalent megatons, and throw-weight. These terms are useful in comparing forces from a geometrical viewpoint.

(TS) Table 10 also shows that, in 1979, the United States has an advantage only in

TABLE 10  
FORCE COMPARISONS FOR DIPLOMATIC SUFFICIENCY  
FY 1979.

Soviet Forces				
	Delivery Vehicles	Warheads	Megatons	Equivalent Megatons
HI-HI	2621	4500	12230	7100
HI-LO	2621	3230	10930	5240
US Forces				
I - JSOP				
II - Current Program				
III - Limited Reduction Program				
IV - Reduced Program				

1/ Based on actual vehicle loadings with forces generated. Does not include total inventory of vehicles and warheads.

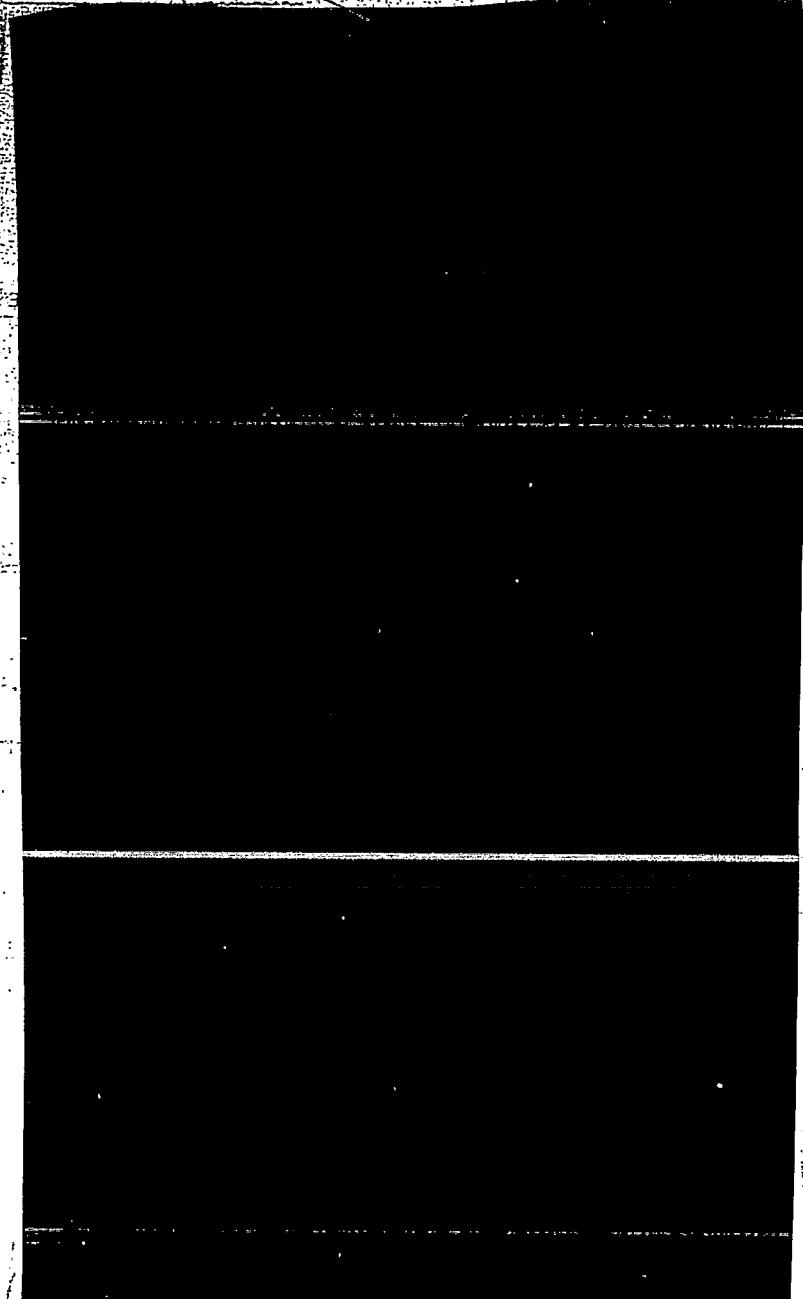
2/ Assumption:

For example,

19. (TS) Conclusion: These data indicate that, in other than  
[redacted] if the  
Soviets forces develop as projected in the HI-LO or HI-HI force  
in NIPP-70.



~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29

\* Total

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

~~TOP SECRET SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

1

1

2

3

4

5

6

7

8

9

10

11

12

<sup>a</sup> Total

~~TOP SECRET SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

A-3.

Annex A

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

ANNEX B

WAR GAME ANALYSIS BY THE STUDIES, ANALYSIS, AND GAMING AGENCY (SAGA)

1. (26) General

2. Model - The Version 3600, Aggregated Multiple Attack  
3. Program (VALIMAR) war game model was used to allocate  
4. weapons and provide damage comparisons. In the model,  
5. the value scheme used by the US Forces was based on the  
6. Joint Strategic Target Planning Staff (JSTPS) target-weighting  
7. system and that for the Soviets was based on the Red  
8. Integrated Strategic Offensive Plan - 1969 (RISOP-69).  
9. The attacks were sequential, that is the

10. [REDACTED] Years  
11. of 1974 and 1979 were examined using the scenario scheme

12. shown in Table I.

13. TABLE I

14. GAME POSITIONS

SCENARIO	UNITED STATES POSTURE	ROLE	USSR POSTURE	ROLE
A	[REDACTED]		[REDACTED]	
B	[REDACTED]		[REDACTED]	
C	[REDACTED]		[REDACTED]	

15. b.

16. To parallel the Single Integrated Operational  
17. Plan (SIOP) targeting objectives.  
18. [REDACTED]

19. \* Produced by the Joint Chiefs of Staff for use in wargaming  
20. SIOP Revision AF.

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

(The SIOP planning technique

of applying

c. Withholds:

A "military only" attack is expected to account for approximately [ ] fatalities. Correspondingly, the damage achieved against the economic worth of [ ] is approximately [ ] percent.

This is based on the assumption that [ ]

d. Forces. US and Soviet Forces were as shown in Figures B-1, B-2, and B-3.

e. [ ] were as shown in Figures B-4, B-5, and B-6 and are based on extrapolations from the current SIOP/RISOP target systems within the United States and the USSR. The USSR target base is

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

B-2

Annex B

(Revised by Decision - 23 April 1971)

TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA

[Redacted] 1  
[Redacted] 2  
[Redacted] 3  
[Redacted] 4  
[Redacted] 5  
Comparing the target base of each country, excluding the [Redacted] 6  
which constitute a basic difference in the total number of [Redacted] 7  
targets, the FY 1974 base is represented by [Redacted] US targets [Redacted] 8  
versus [Redacted] USSR targets, for a difference of [Redacted] targets [Redacted] 9  
in the USSR base. A similar disparity exists in FY 1979, [Redacted] 10  
where the USSR base exceeds the US base by [Redacted] targets. [Redacted] 11  
Using the target grouping from Figures CA-1 through CA-9, [Redacted] 12  
the target differences are as in Table 2. [Redacted] 13

TABLE 2  
US-USSR Target Base Comparison

Targets**	1974			1979		
	US	USSR	DIFF	US	USSR	DIFF

TOTALS

Another important difference in the target bases is the number [Redacted] 22  
of [Redacted] 23  
In the USSR target [Redacted] 24  
base for FY 1979, there are [Redacted] 25  
[Redacted] 26  
[Redacted] 27  
[Redacted] 28  
[Redacted] 29  
[Redacted] 30  
[Redacted] 31

TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA

US AIR FORCE STRUCTURE - 1974

US AIR FORCE	TSOP	CURRENT PROGRAM	I	II	III	IV
			REDUCTION PROGRAM	LIMITED PROGRAM	REDUCED PROGRAM	PROGRAM
PILOTAGE FORCE	FI-72-79					

INTERCEPTORS

USAF F-101	54	54	0	0
F-106	198	198	198	90
ANG F-101	54	54	108	0
F-102	216	234	72	25
F-106	0	0	0	108
TOTAL INTERCEPTORS	522	540	378	223

- 1/ Includes [redacted] out for modification.  
2/ [redacted] in standard silos [redacted] psi  
3/ [redacted] in standard silos [redacted] psi  
in upgraded silos [redacted] psi)

- 4/ Includes nine [redacted] in forces I, II and III, and 11 in force IV out for conversion/overhaul.

TOP SECRET - SENSITIVE FIGURE B-1  
FORMERLY RESTRICTED DATA B-4

AMERICAN AIR DEFENSE FORCE STRUCTURE - 1979  
TOP SECRET RESTRICTED DATA

	I	II	III	IV
ISOP	CURRENT	REDUCTION	REDUCED	PROGRAM
OPERATING FORCES	FM 12-79	PROGRAM	PROGRAM	PROGRAM

INTERCEPTORS  
USAF

F-101	0	18	0	0
F-106	180	180	144	90
IMI	72	54	54	0
 ANG				
F-101	90	72	108	0
F-102	0	90	12	25
F-105	18	0	54	109
TOTAL INTERCEPTORS	360	414	378	223

- 1/ Standard Silo = [ ] psi/Upgraded Silo = [ ] psi  
2/ Bunker Rock Silo = [ ] psi  
3/ A standard NCA of [ ] missiles  
4/ Excludes [ ] POSEIDON SSBN in forces I, II, III and IV  
respectively due for conversion/overhaul.

FIGURE B-2

TOP SECRET SENSITIVE  
FORMERLY RESTRICTED DATA

~~TOP SECRET//SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

~~USSH FORCE STRUCTURE~~

~~TOP SECRET//SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

B-6

Annex B

TOP SECRET - SENSITIVE

CONFIDENTIALITY DATE 1974

MILITARY TARGETS WITHIN THE [REDACTED]

ALPHA TASK 1 USGP Y72-79 LIMITED CURRENT REDUCTION REDUCED PROGRAM PROGRAM VN

SUB TOTAL ALPHA

BRAVO TASK 1/

SUB TOTAL BRAVO

CHARLIE TASK (MIL) 1/

TOTAL

1/ As used in RISOP-69 tasking.

2/ R-Retaliatory by USSR. P-Prescription by USSR.

TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA

FIGURE B1A

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

1979

MILITARY TARGETS WITHIN THE [REDACTED]

ALPHA TASK	RISOP	CURRENT PROGRAM	LIMITED REDUCTION PROGRAM	REDUCED PROGRAM	VN
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

SUB TOTAL ALPHA

BRAVO TASK 1/

SUB TOTAL BRAVO

CHARLIE TASK (MIL) 1/

TOTAL

1/ As used in RISOP-59 tasking.

2/ R-Retaliatory by USSR. P-Precognition by USSR.

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

FIGURE B-5

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

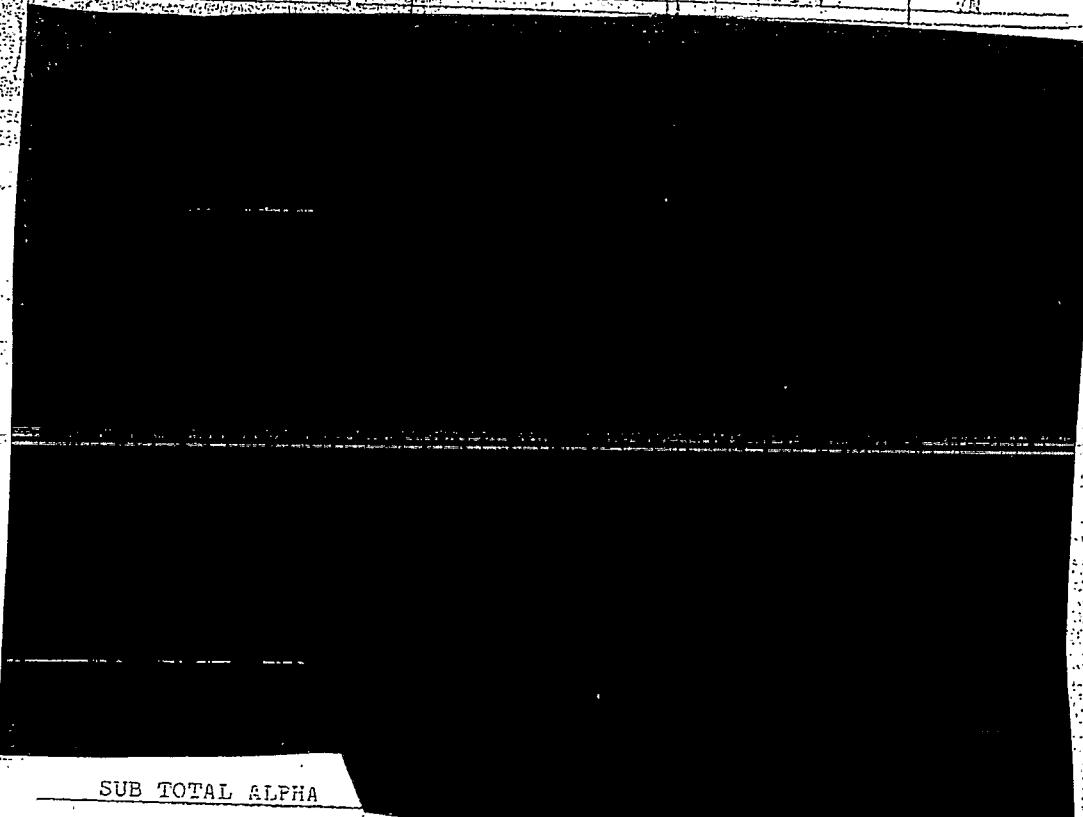
MILITARY TARGETS WITHIN USSR

ALPHA TASK 1/

1974

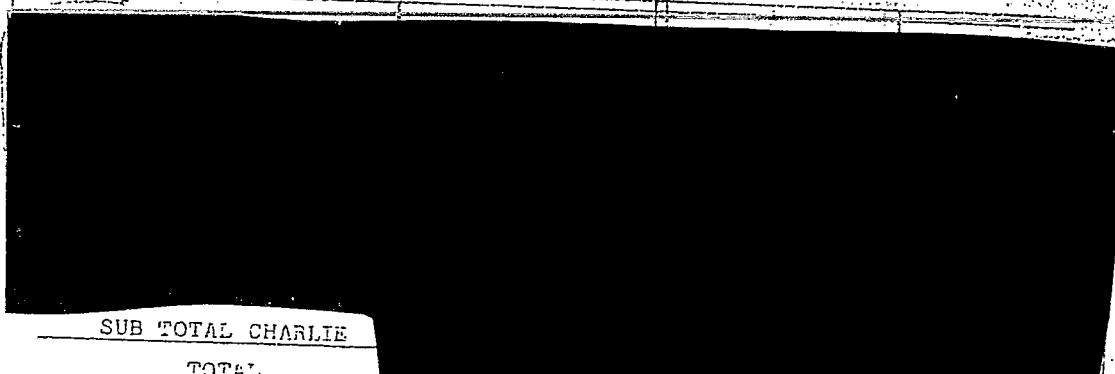
1979

VN



SUB TOTAL ALPHA

BRAVO TASK 1/



SUB TOTAL CHARLIE

TOTAL

1/ Analogous to the US STOP.

2/ R-Retaliation by US. P-Pre-emption by US.

Note:



~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

FIGURE B-6

Annex B

[REDACTED] 1  
[REDACTED] 2  
[REDACTED] 3  
[REDACTED] 4  
[REDACTED] 5  
[REDACTED] 6  
[REDACTED] 7  
[REDACTED] 8  
[REDACTED] 9  
[REDACTED] 10  
[REDACTED] 11  
[REDACTED] 12  
[REDACTED] 13  
[REDACTED] 14  
[REDACTED] 15  
[REDACTED] 16  
[REDACTED] 17  
[REDACTED] 18  
[REDACTED] 19  
[REDACTED] 20  
[REDACTED] 21  
[REDACTED] 22  
[REDACTED] 23  
[REDACTED] 24  
[REDACTED] 25  
[REDACTED] 26  
[REDACTED] 27  
[REDACTED] 28  
[REDACTED] 29  
[REDACTED] 30  
[REDACTED] 31  
[REDACTED] 32

Force objectives. The VALIMAR program was so addressed that both sides engaging in the war game were required to achieve their respective [REDACTED] damage to be eligible to receive credit for damage to the [REDACTED]

Current STOP damage analysis indicates that with [REDACTED]

[REDACTED] A similar 30 percent population correlation for the United States with [REDACTED]

[REDACTED] 1  
[REDACTED] 2  
[REDACTED] 3  
[REDACTED] 4  
[REDACTED] 5  
[REDACTED] 6  
[REDACTED] 7  
[REDACTED] 8  
[REDACTED] 9  
[REDACTED] 10  
[REDACTED] 11  
[REDACTED] 12  
[REDACTED] 13  
[REDACTED] 14  
[REDACTED] 15  
[REDACTED] 16  
[REDACTED] 17  
[REDACTED] 18  
[REDACTED] 19  
[REDACTED] 20  
[REDACTED] 21  
[REDACTED] 22  
[REDACTED] 23  
[REDACTED] 24  
[REDACTED] 25  
[REDACTED] 26  
[REDACTED] 27  
[REDACTED] 28  
[REDACTED] 29  
[REDACTED] 30  
[REDACTED] 31  
[REDACTED] 32

an iterative process is used in the VALIMAR model that stops when a solution is within  $\pm 2$  percent of the desired goal. This can result in slight variations in the weapon allocation process against the remaining [REDACTED]. Separate testing has indicated that these variations lead to differences of less than  $\pm 5$  percent in terms of the number of [REDACTED] damaged in a particular case. This variation was considered when making relative force comparisons using the war game data.

g. [REDACTED]

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

2. (S) VULNERABILITY Analysis. Appendix A hereto summarizes the physical damage to the [REDACTED] of both the United States and the USSR by major category using the USSR high numbers, low technology (HI-LO) high numbers, high technology (HI-HI) threat from National Intelligence Projections for Planning 1970 (NIPP-70).

3. (S) Other Analyses. Appendices B through D address the following areas:

a. Appendix B-US (Current Program) vs Soviet (HI-HI)

b. Appendix C-ICBM Duel Analysis

c. Appendix D-System Reliability.

4. (TS) Observations.

a. Both the United States and the USSR are capable of achieving their

[REDACTED] under all of the conditions game'd in both 1974 and 1979.

b. The capability to strike effectively the

[REDACTED] except those using the JSOP (FY 1972-1979) force in 1979. This is due to the

c. In scenarios where the United States was assumed to fully generate its forces,

In these cases, the

d. In terms of relative numbers of [REDACTED] damaged, the game results indicate that for the scenarios examined:

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

(1) 1979. Against the HI-LO threat, the United States Air Force is generally superior when its forces are generated. In the day-to-day posture [REDACTED]

(2) 1979. Against the HI-HI threat, the United States Air Force is generally superior when its forces are generated. In the day-to-day posture [REDACTED]

[REDACTED]  
(see Figures BA-10 and BA-11)

[REDACTED]  
against the HI-LO or HI-HI threat (see Figures BA-6 and BA-9).

f. In all cases considered, only the JSOP (FY 1972-1979) force in 1979 can [REDACTED]

[REDACTED]  
(see Figures BA-12 and BA-13).

g. Using the HI-HI threat against each of the US Forces in 1979, the USSR is able to attain [REDACTED]

[REDACTED]  
(see Figures BA-7 and BA-8).

h. [REDACTED]

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

A side-by-side comparison of Soviet (HI-HI) and US (Current Program) missile survivability against [REDACTED]

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

[REDACTED] (see Appendix B hereto).

j. Incremental ICBM exchanges using the US Current Program and the Soviet HI-HI forces for 1979, show that within any credible scenario the [REDACTED]

[REDACTED] (see Appendix C hereto).

k. Improvement of weapon system reliabilities in the [REDACTED]

(see

Appendix D hereto).

5. (TS) Summary

a. In most conditions examined, the JSOP FY 1972-1979 force [REDACTED]

b. There appear to be no major differences among the [REDACTED]

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

C. When the Soviet HI-HI threat strikes first,

[REDACTED] except when opposing the JSOP FY 1972-1973 force  
(see figures BA-7, BA-8 and BA-11),

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

APPENDIX A

VALIMAR WAR GAME SUMMARY

1. General: Figures BA-1 through BA-6 summarize the percent damage to the [REDACTED] of both the United States and the USSR by major category using the USSR high numbers, low technology (HI-LO) threat from National Intelligence Projections for Planning 1970 (NIPP-70). Figures BA-7, BA-8, and BA-9 depict the damage summaries when the FY 1979 forces oppose the USSR high numbers, high technology (HI-HI) threat. Figures BA-10 and BA-11 resummarize the foregoing data based on comparisons between the total expected damage to each country's [REDACTED]

[REDACTED]  
2. Figures BA-12 and BA-13 depict the damage summaries to [REDACTED] in the USSR [REDACTED]

2. (TS) "Comments" FY 1974 vs. HI-LO Threat:

a. Under all US Force structures considered in a US retaliation posture, [REDACTED]

[REDACTED] (see Figure BA-1).

b. Under conditions of US

[REDACTED] (see Figure BA-2).

c. Under conditions of US preemption

The JSOP FY 72-73.

force is able to

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

REF ID: A6592

ORDERS OF BATTLE

(see Figure BA-4)

d. In conclusion, considering all FY 1974 forces, both the United States and the USSR attain

fatalities and

S. US Comments FY 1979 vs HI-LO Threat

a. Of the US Forces considered in day-to-day retaliation, the JSOP FY 72-76 force

(See Figure BA-4) \*

b. Under US retaliation from

The ability of the forces to restrict damage to the United States is generally the same as stated in sub-paragraph 2(b) above (see Figure BA-5).

c. Under US preemption, the JSOP FY 72-79

\* It should be noted that the

~~TOP SECRET SENSITIVE  
FORMERLY RESTRICTED DATA~~

[redacted] (see Figure BA-5)

4. (TS) Comments, FY 1979 vs. HI-HI Threat.

5. Of the forces considered in day-to-day retaliation, the JSOP FY 1979 and the Current Program forces are the only forces capable of inflicting damage to the USSR.

[redacted] (see Figure BA-7).

[redacted] (see Figure BA-7).

6. During US retaliation

Only

the JSOP FY 1979 force has significant capability against Soviet.

[redacted] (see Figure BA-8). \*

5. (TS) Comments, Support to NATO. The support to NATO, at first, appears

[redacted] in the charts at Figures.

\* It should be noted that the [redacted]

~~TOP SECRET SENSITIVE  
FORMERLY RESTRICTED DATA~~

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

BA-1 through BA-18

[REDACTED] is shown

BA-18, BA-19 and BA-20. In all game cases, [REDACTED]  
When the USOPTY 72-59 and the current Program Forces are employed  
in 1979.

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

E-18

Appendix A to  
Annex B



## USSR STRIKES FIRST US RETALIATES FROM ADVANCED READINESS POSTURE

% DAMAGE TO USSR

EX-1974

NAME	LAST	FIRST	MIDDLE	USRN#	PROJECT	TEST		TEST		TEST		TEST	
						1	2	3	4	5	6	7	8
N/A	N/A	N/A	N/A	66	68	68	68	61	62	68	68	62	62
N/A	N/A	N/A	N/A	1036	700	700	700	319	331	1000	1000	325	325
N/A	N/A	N/A	N/A	616	586	586	586	437	437	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	66	68	68	68	61	62	68	68	62	62
N/A	N/A	N/A	N/A	1000	700	700	700	331	331	1000	1000	325	325
N/A	N/A	N/A	N/A	616	586	586	586	437	437	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	66	68	68	68	61	62	68	68	62	62
N/A	N/A	N/A	N/A	1000	700	700	700	331	331	1000	1000	325	325
N/A	N/A	N/A	N/A	616	586	586	586	437	437	N/A	N/A	N/A	N/A

ב' ט' י' ז'

Permition is granted on page B-15.

卷之三

અનુભૂતિ-ગીત

卷之三

卷之三

ପ୍ରକାଶନ କେନ୍ଦ୍ର

**Appendix A to Annex B**

~~TOP SECRET~~

US STRIKES FIRST  
USSR RETALIATES FROM ADVANCED READINESS POSTURE

U.S. FORCE	TGT LAM	TGT ATK	TGT BASE	FY 1974		FY 1975		FY 1976		FY 1977		FY 1978	
				% DAMAGE TO USSR*	% DAMAGE TO US*	% DAMAGE TO USSR*	% DAMAGE TO US*	% DAMAGE TO USSR*	% DAMAGE TO US*	% DAMAGE TO USSR*	% DAMAGE TO US*	% DAMAGE TO USSR*	% DAMAGE TO US*
JSCP FY72-79				0	N/A								
CURRENT PROGRAM				0	N/A								
2-21				0	N/A								
LIMITED REDUCTION PROGRAM				0	N/A								
APPENDIX B-21				0	N/A								

Appendix A to Annex B

\* TARGETED IN USSR RETALIATION.  
\*\* Definition footnoted on Page B-15.

FIGURE RA-3

~~TOP SECRET~~

USSR STRIKES FIRST  
US RETALIATES FROM DAY-TO-DAY POSTURE

US FORCE	TGT NAM	TGT ATY	TGT BASE	% DAMAGE TO USSR*		% DAMAGE TO US*		TGT DATE	TGT TIME	TGT TYPE	USSH PACT
				TGT	BASE	TGT	BASE				
1772-79								1021	696	494	NUCLEAR
1773-81								N/A	N/A	N/A	TECHNOLOGY
1774-81								616	554	397	
1775-81								1036	593	414	
1776-81								N/A	N/A	N/A	
1777-81								616	582	474	
1778-81								1088	688	612	
1779-81								1000	754	459	
1780-81								N/A	N/A	N/A	
1781-81								616	584	460	

\*\* Definition: See Footnote Page B-15.

FIGURE BA-4

TOP SECRET

USSR STRIKES FIRST  
US 'RETALIATES' FROM ADVANCED READINESS POSTURE

FY 1979													
TOT ATK	% DAMAGE TO USAR*												
68	61	68	61	1027	1027	697	492	N/A	N/A	616	307	616	586
68	60	68	60	1036	693	N/A	N/A	616	582	616	474	616	529
68	68	68	68	1000	754	N/A	N/A	616	584	616	460	616	529
68	68	68	68	1000	1000	N/A	N/A	616	586	616	427	616	586

\* Definition: See Footnote Page B-15.

FIGURE 8A-5

**USSR RETALIATES FROM ADVANCED READINESS POSTURE**

1979

DANZOGI

卷之三

卷之三

**Definition:** See Footnote Page B-151.

TIGUE 82-6





USSR RETALIATES FROM ADVANCED READINESS POSITION

S DAMAGE TO MSSR\* FEB 1979

DAMAGES TO MISSISSIPPI

卷之三

23

\* See Definition: See footnote page viii.

۱۷۰

FIGURE B1-9

**Appendix A to Annex I**

~~TOP SECRET~~

MILITARY TARGETS

EXPECTED DAMAGE & RESIDUAL  
(Excluding [REDACTED])

USSR HI-LO Threat

1974 FORCE 1/

1979 FORCE

SCENARIO 2/	1	11	111	IV	1	11	111	IV
-------------	---	----	-----	----	---	----	-----	----

TARGETS

A

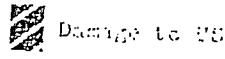
B

C

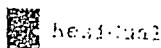
- 1/ 1 - GOOD (70-79)  
11 - Current, Frequent  
111 - Limited Residual Frequency  
IV - Past, Old Frequency

2/ SCENARIO 19 - see Part I of this Annex.

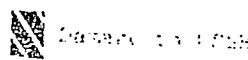
NOTE 1:



Damages to PS



Residual



Damages to PDR

8-28

Appendix A to Annex F

TOP SECRET

MILITARY TARGETS

EXPECTED DAMAGE & RESIDUAL  
According to [redacted]

USSR HI PI Threat

1970 FORCE

1I

IV

SCENARIO

TARGETS

A

B

C

- 1/ 1 - JSOP (72-79)  
11 - Current Program  
1II - Limited Reduction Program  
IV - Reduced Program

- 2/ SCENARIO - See Page 1 of this Annex.

Color:



Damage to US



Residual

FIGURE-BA-11



Damage to USSR

B-29

Appendix A to Annex B

TOP SECRET

~~TOP SECRET~~

USSR HI-LO THREAT

NATO ORIENTED AIRFIELDS<sup>3/</sup>  
EXPECTED DAMAGE & RESIDUAL  
(EXCLUDING [REDACTED])

1974 FORCE 1/  
SCENARIO 2/ 1 11 111 1V 1 11 111 1V

1979 FORCE

A

B

C

- 1/ 1 - JSOP (73-79)  
11 - Current Program  
111 - Limited Reduction Program  
1V - Reduced Program

2/ SCENARIO - See Page 1 of this Annex.

3/ [REDACTED]

CODE:



Damage to USSR



Residual

~~TOP SECRET~~

FIGURE BA-12

USSR HI-HI THREAT

NATO ORIENTED AIRFIELDS 3/

EXPECTED DAMAGE IS RESIDUAL

(Excluding)

1979 FORCE

SCENARIO 2/ 1 I II III IV

A

B

C

- 1/ 1 - JSOP (72-79)  
II - Current Program  
III - Limited Reduction Program  
IV - Reduced Program

2/ SCENARIO - See Page 1 of this Annex.

CODE: [REDACTED] Damage to USSR

[REDACTED] Residual

TOP SECRET

FIGURE BA-13

8-31

Appendix A to Annex B

~~TOP SECRET SENSITIVE  
FORMERLY RESTRICTED DATA~~

APPENDIX

U.S. CURRENT PROGRAM VS. SOVIET (HIGH NUMBERS, HIGH  
TECHNOLOGY) - HARD TARGET CAPABILITIES

1. (TS) The higher average yield of Soviet missiles compared  
to U.S. missiles provides

2. (TS) Considering the actual

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

~~TOP SECRET SENSITIVE  
FORMERLY RESTRICTED DATA~~

B-32

Appendix B  
to Annex B

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

B-33

Appendix B  
Annex B

Warheads expended

Figure BB-1. Comparison of [redacted]  
1979.

Warheads expended

Figure BB-2. [redacted] Against Actual  
B-34 Target Base, 1979. Appendix B to Annex B

FOR FURTHER INFORMATION  
CONTACT THE FIELD DATA

## APPENDIX

ICBM DUEL ANALYSIS (U)

TR) Using the US Current Program (Force II-1979) and the  
Soviet Union numbers, High technology (HI-HI) 1979 force,

Scenarios used in the duels were as follows:

Scenarios used in the duels were as follows:

## DUEL

## ATTACK

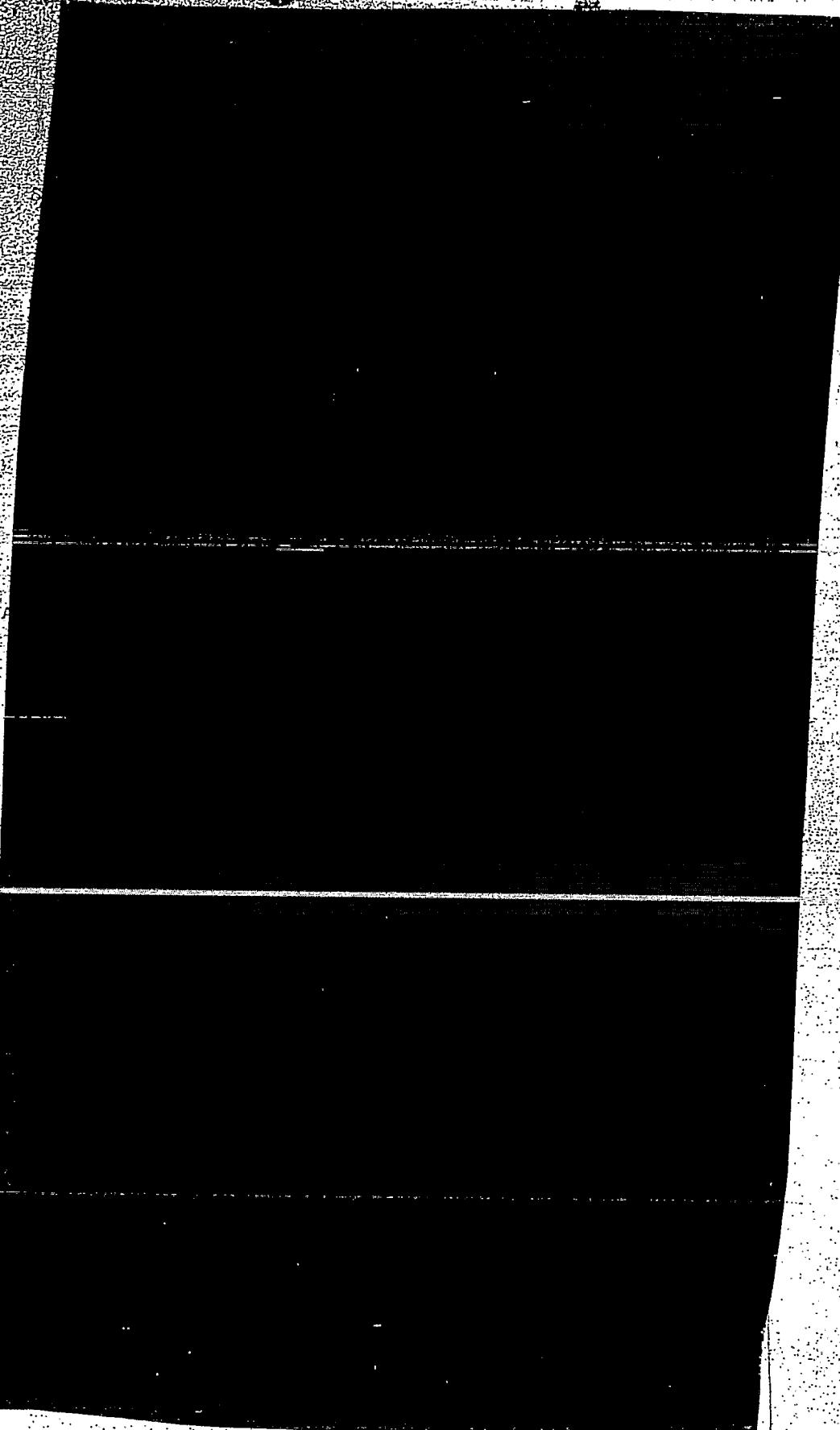
No

By

11

### Against

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~



S

~~TOP SECRET~~  
Figure BC-2 (TS) ICBM DUEL (US initiates)

B-36

Appendix C to Annex B

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

the duel terminated with the [REDACTED] While the specific results are functions of the scenarios used, any variation of scenario using the same force structures would produce similar results.

(1) Using the US Current Program and the Soviet HI-HI 1979 force in order to compare each force's ability to limit damage by employing counterforce attacks.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

... limiting it is possible by employing  
the available assets to neutralize the capability threat.  
The consequences of which will be the opposing force's inability

1  
2  
3  
4  
5  
6

Potential  
for  
GSD Damaged

US  
Damage  
Limiting  
Attack

Soviet  
Preempt

US  
Preempt

Figure BC -3 (TS) Damage Limiting and Preemptive Attacks

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

APPENDIX D

SYSTEM RELIABILITY (U)

1. (TS) Weapon system reliabilities (WSR) (nonreprogrammable) used in the war game analyses for [REDACTED] were as shown:

The effects of possible improvements to system reliability are shown for three stages of improvement (A, B, C) in Figure BD-1 using the following parameters:

Table BD-1

Wpn	Yield	CEP	WSR			Alert Rate
			A	B	C	
[REDACTED]						

The top set of curves represents an attack on [REDACTED]

set of curves shows similar attacks using [REDACTED]

The bottom

2. (TS) With  
in which the

(e.g., a scenario

improvements can result in an additional

the system reliability

the

However, with

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

1  
2  
3  
4  
5

GROUP 3  
DOWNGRADED AT 17 YEAR  
INTERVALS, NOT  
AUTOMATICALLY DECLASSIFIED

TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA B-41

Appendix D to  
Annex B

~~TOP SECRET~~

Figure BD-1

B-42

Appendix D to  
Annex B

## ANNEX C

1VALIMAR MODEL2

1. (U) The VALIMAR war game simulation model used in this analysis is a derivation of the Code 50 model designed by the Lambda Computer Corp. It is used by the Joint Staff in the analysis of strategic force capabilities. This Annex will discuss and present the results of test runs performed by the Studies, Analysis, and Gaming Agency, OJCS, whose purpose was to examine the validity of VALIMAR predictions in terms of weapon allocations and damage expectancies.

34567891011121314151617181920212223242526272829302. (U) Methodology

a. Various SIOP factors were incorporated into the VALIMAR routines and the subsequent outputs compared with SIOP (Revision H) damage predictions. Principal factors that were used by VALIMAR in this comparison included:

(1) A target value scheme based on the JSTPS Target Weighting System Manual.

(2) Vulnerability numbers for targets as used in the NSTDB.

(3) JSTPS planning factors such as: Pre-launch survivabilities, probabilities of penetration, weapon system reliabilities, and CEPs.

(4) [REDACTED] attack objectives defined in terms of the expected number of prompt fatalities incidental to a SIOP execution against the Soviet [REDACTED] base.

b. Damage evaluation was restricted to the USSR and only those SIOP forces programmed into the Soviet Union were considered. For the games, US bombers were not considered available to attack [REDACTED]. Three US positions were examined:

3. (U) Analysis

a. Runs were made to determine if the value scheme needed to be adjusted in order to accommodate the changing attack rationale implicit in the scenarios to be examined.

It was determined that the original scheme (see Figure 1) based on a direct translation from the JSTPS manual produced reasonable results over the range of scenarios.

b. The results of the first series of runs are shown in Figures 2 and 3.

[REDACTED] The predicted number of military targets

damaged agrees within 6.1 percent.

~~TOP SECRET - SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

The results of the second series of runs against the enhanced target base are shown in Figures 4 and 5. In this case, all of the collateral effects of damage are credited to SIOP. As is seen, the weapons allocation agrees with the SIOP within 2.2 percent. The predicted number of military targets damaged falls below the SIOP predictions by 14.6 percent. This difference is principally due to collateral damage and agrees with an estimate of about 15 percent based on pre-game analysis of the SIOP damage summary tables.

~~TOP SECRET SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28

~~TOP SECRET SENSITIVE~~  
~~FORMERLY RESTRICTED DATA~~

~~TOP SECRET - SENSITIVE  
FORMERLY RESTRICTED DATA~~

C-S

Annex C

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

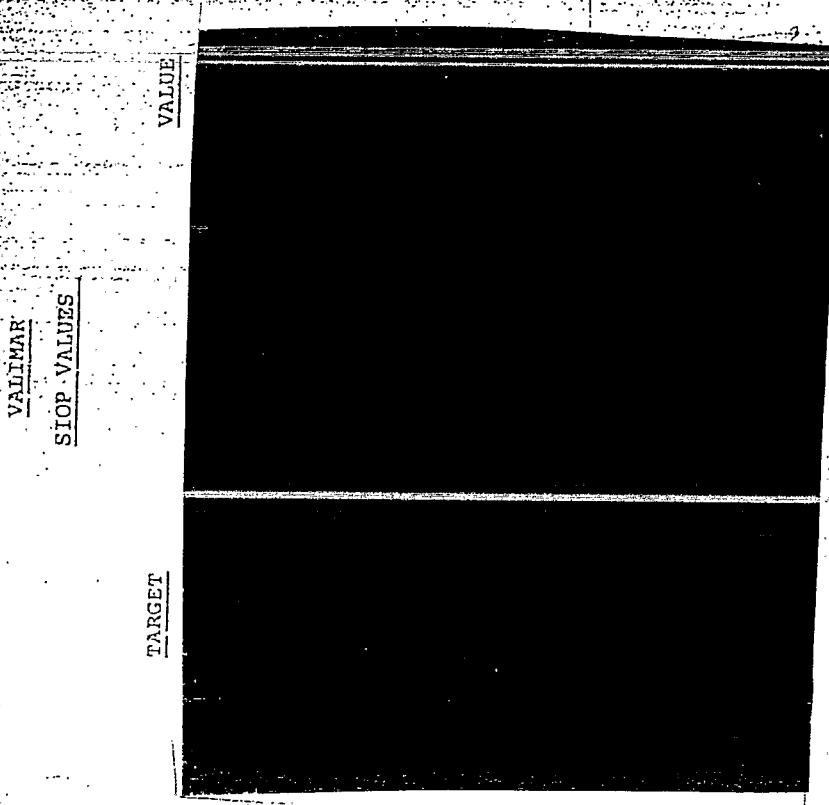


Figure 1

~~TOP SECRET SENSITIVE~~

C-6

Annex C

WEAPON LOCATIONS

FIRST SERIES RUN

(AGAINST USSR)

WEAPON LOCATIONS	
ADVANCED READINESS	ADVANCE
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

\$ OF TOTAL

Figure 2

TOP SECRET - SENSITIVE

TOP SECRET - SENSITIVE

FIRST SERIES RUN

NUMBER DGZS IN BASE	SIOP	VALMAR	ADV. READINESS		ADV. READINESS	
			SIOP	VALMAR	SIOP	VALMAR
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
121						
122						
123						
124						
125						
126						
127						
128						
129						
130						
131						
132						
133						
134						
135						
136						
137						
138						
139						
140						
141						
142						
143						
144						
145						
146						
147						
148						
149						
150						
151						
152						
153						
154						
155						
156						
157						
158						
159						
160						
161						
162						
163						
164						
165						
166						
167						
168						
169						
170						
171						
172						
173						
174						
175						
176						
177						
178						
179						
180						
181						
182						
183						
184						
185						
186						
187						
188						
189						
190						
191						
192						
193						
194						
195						
196						
197						
198						
199						
200						
201						
202						
203						
204						
205						
206						
207						
208						
209						
210						
211						
212						
213						
214						
215						
216						
217						
218						
219						
220						
221						
222						
223						
224						
225						
226						
227						
228						
229						
230						
231						
232						
233						
234						
235						
236						
237						
238						
239						
240						
241						
242						
243						
244						
245						
246						
247						
248						
249						
250						
251						
252						
253						
254						
255						
256						
257						
258						
259						
260						
261						
262						
263						
264						
265						
266						
267						
268						
269						
270						
271						
272						
273						
274						
275						
276						
277						
278						
279						
280						
281						
282						
283						
284						
285						
286						
287						
288						
289						
290						
291						
292						
293						
294						
295						
296						
297						
298						
299						
300						
301						
302						
303						

~~TOP SECRET - SENSITIVE~~

WEAPON ALLOCATIONS

SECOND SERIES RUN

(AGAINST USSR)

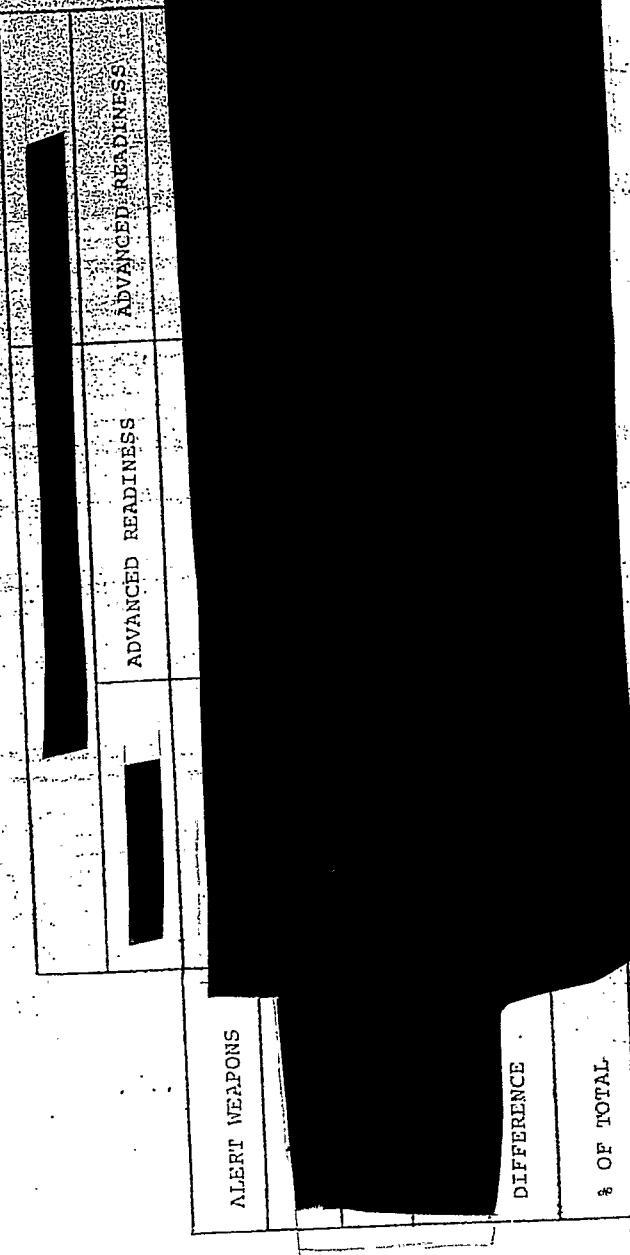


Figure 4

~~TOP SECRET - SENSITIVE~~

TOP SECRET SENSITIVE

SECOND SERIES RUN

NUMBER TGT'S IN BASE	STOP VALSTAR	ADV VALSTAR	ADV VALSTAR	ADV VALSTAR
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

TOTAL	DIRE	R DIRE
[REDACTED]	[REDACTED]	[REDACTED]

TOP SECRET SENSITIVE C-10

Annex C

Figure 5

GLOSSARY

Terms used in this analysis are defined for the purpose of  
this study as follows:

Active Defense (U) - The employment of defensive forces  
against the enemy's offensive weapons after they are launched  
to prevent them from reaching their targets (as opposed to  
passive defense such as hardening the target, or to counter-  
force).

A-Hour (Alert Hour) (S)

This

time will be disseminated by the Joint Chiefs of Staff.

Aim Point (U) - See DGZ

ALCC (Airborne Launch Control Center) (U) - An EC-135  
aircraft within the SAC Post Attack Command and Control  
System which provides a back-up means for selective enabling  
and launching of one or more MINUTEMAN missiles.

ANMCC (U) - The Alternate National Military Command Center,  
located underground near Fort Ritchie, Md.

CEP (Circular Error Probable) (U) - A measure of weapon  
system accuracy. The radius of a circle whose center is at  
the DGZ within which 50 percent of the weapon detonations  
can be expected to occur.

CINC (Commander in Chief) (U) - The commander of a unified  
or specified command.

Comprehensive  
system which

(S) - The target

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

Counterforce (U) - The employment of strategic air and missile forces in an effort to destroy, or render impotent, selected military capabilities of an enemy force under any of the circumstances by which hostilities may be initiated. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

CounterValue (U) - The employment of strategic air and missile forces against the urban/industrial base of an enemy. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

Day-to-Day Alert (U) - The posture maintained by SICP forces under normal peacetime conditions. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

DEFCON (Defense Readiness Conditions) (U) - A uniform system of progressive alert procedures for use between the Joint Chiefs of Staff and CINCS, and for use by the Services. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

DGZ (Desired Ground Zero) (U) - A point on the earth's surface below, at, or above the center of a desired nuclear burst. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

Diplomatic Sufficiency (U) - The visible capability of US strategic forces to meet the Soviet threat; specifically the perception of such capability by those outside the US government, both domestically and internationally. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

EMT (Equivalent megatons, also abbreviated as MTE) (U) - A measure of the relative effectiveness of different yield weapons, against city type targets. This assumes that one EMT delivered by one weapon system with a particular yield will cause the same damage as one EMT from a different system and yield. EMT is calculated by taking the square root of weapon yields over one megaton and the two-thirds power of yields below one megaton. (Example: A 100 megaton weapon delivers 10 EMT; a .5 megaton weapon delivers .63 EMT) 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

ERCS (Emergency Rocket Communication System) (TS) - [REDACTED] 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31

~~TOP SECRET SENSITIVE~~

DEGRADATION (U) - An increase in scope or violence of a conflict, deliberate or unpremeditated.

FGI (Force Generation Level) (S)

Flexible Response (U) - Insofar as US strategic offensive forces are concerned.

Frequency (U) - Expressed in Hertz (cycles/second).

ELF - Extremely Low Frequency 10 KHz

VLF - Very Low Frequency 10 - 30 KHz

LF - Low Frequency 30 - 100 KHz

MF - Medium Frequency 300 - 3000 KHz

HF - High Frequency 3 - 30 MHz

VHF - Very High Frequency 30 - 300 MHz

UHF - Ultra High Frequency 300 - 3000 MHz

SHF - Super High Frequency 3 - 30 GHz

EHF - Extremely High Frequency 30 - GHz

Generated Alert (Maximum Posture) (S) - A state of readiness whereby

~~TOP SECRET SENSITIVE~~

TOP SECRET - SENSITIVE

GTE (Greater than Expected Threat) (U) - A threat in excess of that projected by the intelligence community.

Hard Target (U) - A target that can avoid disabling damage when exposed to overpressures on the order of 600 per square inch.

LCC (Launch Control Center) (U) - A hardened underground structure which maintains constant surveillance and control of 10 to 50 unmanned MINUTEMAN missile launch facilities and generates test, calibrate, inhibit, retargeting, enable, or execute commands as directed.

NCA (National Command Authorities) (S) - The President, the Secretary of Defense, the Joint Chiefs of Staff, or the duly deputized alternates or successors.

NEACP (National Emergency Airborne Command Post) (S)

NMCC (U) - The National Military Command Center located in the Pentagon.

NSDM-16 Criteria for Strategic Sufficiency (TS) - For planning purposes:

[REDACTED] were defined in NSDM-16 as follows:

TOP SECRET - SENSITIVE

TOP SECRET SENSITIVE

NSTDB (National Strategic Target Data Base) (S)

National Strategic Target List (NSTL) (S)

OMT (Other Military Targets) (S) - This definition applies  
only to Part V and the analysis in Annex C.

TOP SECRET SENSITIVE

PACCS (Post Attack Command and Control System) (C) - [REDACTED]

- PLS (Pre-launch Survivability) (U) - The probability that a delivery vehicle will survive an enemy attack under an established condition of warning. 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29
- Presidential Authority (U) - The President or his successor.
- Relative Advantage (U) - See Termination of Hostilities.
- Residual Military Resources (U) - Resources remaining undamaged after a nuclear attack, including OMT, IR/MRBM sites in the case of the Soviets, and excluding residual strategic nuclear delivery vehicles.
- Second Strike (U) - The first counterblow of a war (Generally associated with nuclear operations).
- SIOP Committed Forces (U) - United States nuclear delivery forces designated by the appropriate unified and specified commands for use in SIOP operations.
- SIOP Coordinated Forces (C) - [REDACTED]
- SLBM Detection System (474N)
- Soviet Bloc (U) - The Soviet Union and East European communist countries.

~~TOP SECRET - SENSITIVE~~

Specified Command (U) - A command which has a broad continuing mission and which is established and so designated by the President through the Secretary of Defense with the advice and assistance of the Joint Chiefs of Staff. It normally is composed of forces from but one Service. 1  
2  
3  
4  
5

SSPK (Single-Short Kill Probability) (U) - The probability that a single arriving warhead will cause disabling damage to a target. 6  
7  
8

TACAMO (U) - A communication relay aircraft that can transmit the SIOP execution message to deployed SSBNs on VLF. 9  
10

TACSATCOM (U) - The Tactical Satellite Communications System designed to satisfy the requirements of mobile users. It is a UHF system consisting of two satellites in synchronous equatorial orbit. One over the Atlantic and one over the Pacific. 11  
12  
13  
14

TDI (Target Data Inventory) (U) - A document which provides standardized target data in support of the requirements of the Joint Chiefs of Staff and unified and specified commands in the area of target planning and coordination. 15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26

  
Throw-weight (U) - Maximum missile payload capabilities (warheads and penetration systems including spacers and dispensing mechanisms) for a specified delivery range. 27  
28  
29

Unified Command (U) - A command with a broad continuing mission under a single commander and composed of significant assigned components of two or more Services, and which is established and so designated by the President, through the 30  
31  
32  
33

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET - SENSITIVE~~

Secretary of Defense with the advice and assistance of the  
Joint Chiefs of Staff, or when so authorized by the Joint  
Chief of Staff, by a Commander of an existing unified command  
established by the President.

VN (Vulnerability Number) (U) - A three-part number that  
relates target vulnerability to overpressure.

Wartfighting (Also called Warwaging or War-engagement)

Capability (S) - The capability of US strategic forces under  
any conditions of war initiation, to: (1)

Warhead (U) - That part of a missile, projectile, torpedo,  
rocket, or other munition which contains either the nuclear  
or thermonuclear system, high-explosive system, chemical  
agents or inert materials intended to inflict damage.

WSR (Weapon System Reliability) (U) - The probability of  
a delivery vehicle delivering a weapon which detonates as  
planned, excluding the effects of enemy action.

WWMCCS (Worldwide Military Command and Control System) (U)  
An integrated command and control system that provides the  
means for operational direction and technical/administrative  
support involved in the function of command and control of  
US military forces. WWMCCS includes as subsystems the  
National Military Command System (NMCS), as well as the

~~TOP SECRET - SENSITIVE~~

~~TOP SECRET - SENSITIVE~~

Command and control systems of the unified and specified  
commands, the headquarters of the Military Departments/  
Services (including their alternates), and the headquarters  
of the Service component commands (including their alternates).  
Included also are the command and control support systems of  
the Department of Defense Agencies.

~~TOP SECRET - SENSITIVE~~