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THE JOINT CHIEFS OF STAFF
WASHINGTON, D.C. 20301

CM 1514-77
5 July 1977

14
File
5 Jul 77
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MEMORANDUM FOR THE SECRETARY OF DEFENSE *043*

Subject: Exercise IVORY ITEM *G*

1. Attached are copies of two briefings I have reviewed on our missile warning systems and execution of the Single Integrated Operational Plan under differing conditions.
2. I do not feel it necessary for you to receive these briefings, but you may desire to look through them at your convenience.

George S. Brown
 GEORGE S. BROWN, General, USAF
 Chairman, Joint Chiefs of Staff

Declassified
 Authority: 25723 By:
 Amanda Weimer Date:
 02-24-2017

- Attachments
- A. Briefing on Missile Warning Systems
 - B. Briefing on SIOP Execution Considerations

CC: DSD Duncan -1

DJSM 1135-77
(1)

385-Spencis - 5 Jul 77
(Ivory Item)

Classified by Chairman, JCS
 SUBJECT TO GENERAL DECLASSIFICATION
 SCHEDULE OF EXECUTIVE ORDER 11652
 AUTOMATICALLY DOWNGRADED AT TWO
 YEAR INTERVALS
 DECLASSIFIED ON DECEMBER 31, 1987

DJS
 JS
 OIC
 CM
 EXEMPT FROM
 AUTOMATIC DECLASSIFICATION
 EO 12958 3.4 (b) 5
 DATE: SEP 28 2000
 REVIEW DATE: SEP 2010

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RESTRICTED DATA OR
 FORMERLY RESTRICTED DATA
 EXEMPT FROM
 AUTOMATIC DECLASSIFICATION
 DATE: SEP 28 2000

NMCS MISSILE WARNING SYSTEMS

NW#: 25723

DocId: 31099648

DECLASSIFIED

Authority NND

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TACTICAL WARNING & ATTACK ASSESSMENT SYSTEMS

EO25x5 -JS
EO25x6 JS

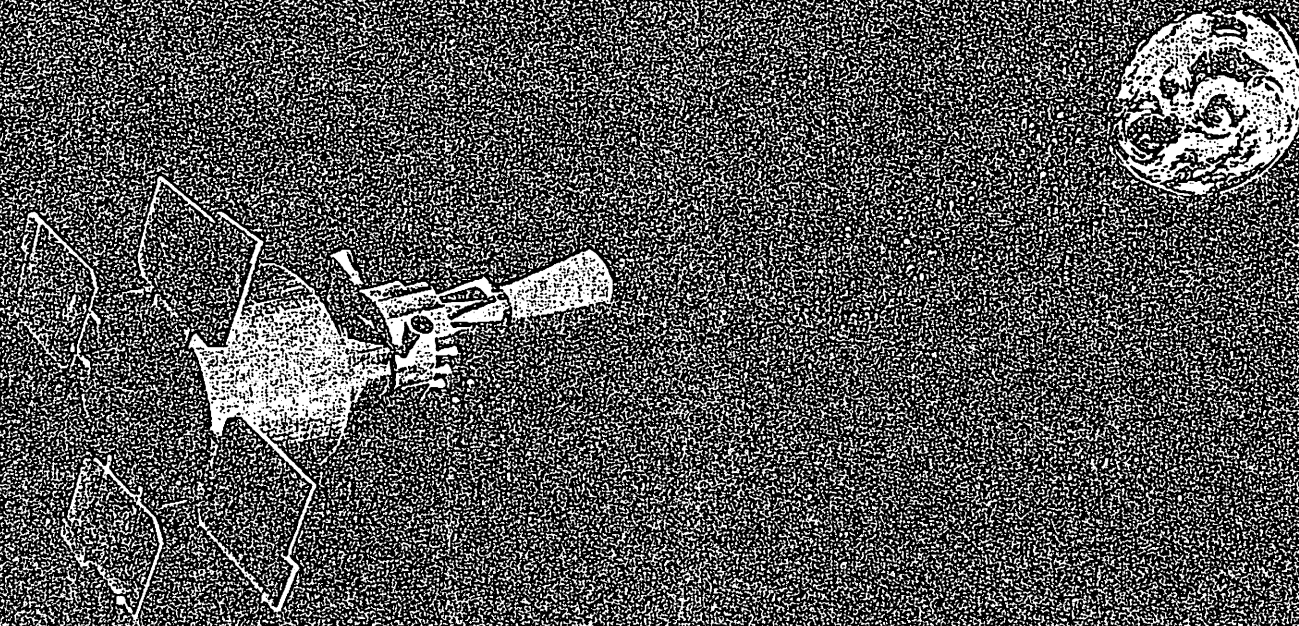
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DEFENSE SUPPORT PROGRAM



NW#: 25723

DocId: 31099648

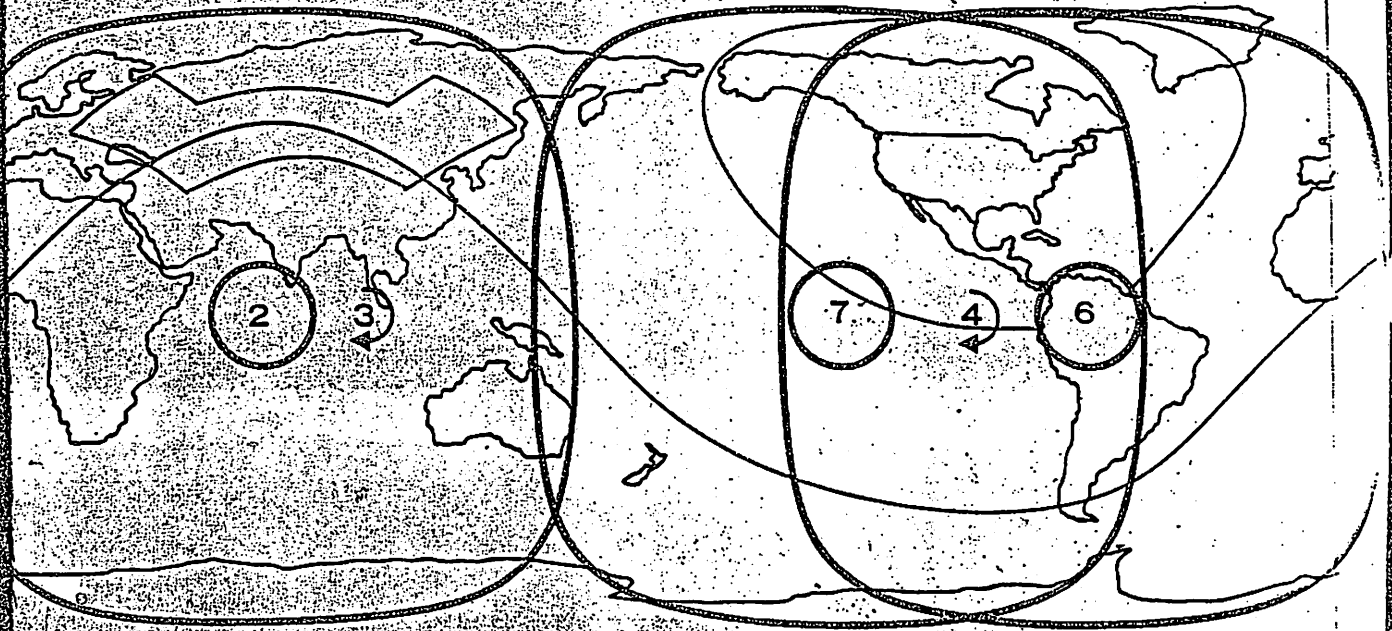
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Authority NND

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DSP



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NW#: 25723

DocId: 31099648

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Authority NND
72358

DSP SYSTEM SUMMARY

- ALMOST WORLD WIDE COVERAGE
- EARLIEST ATTACK INDICATIONS
- BOOSTER COUNT
- NUDET REPORTING

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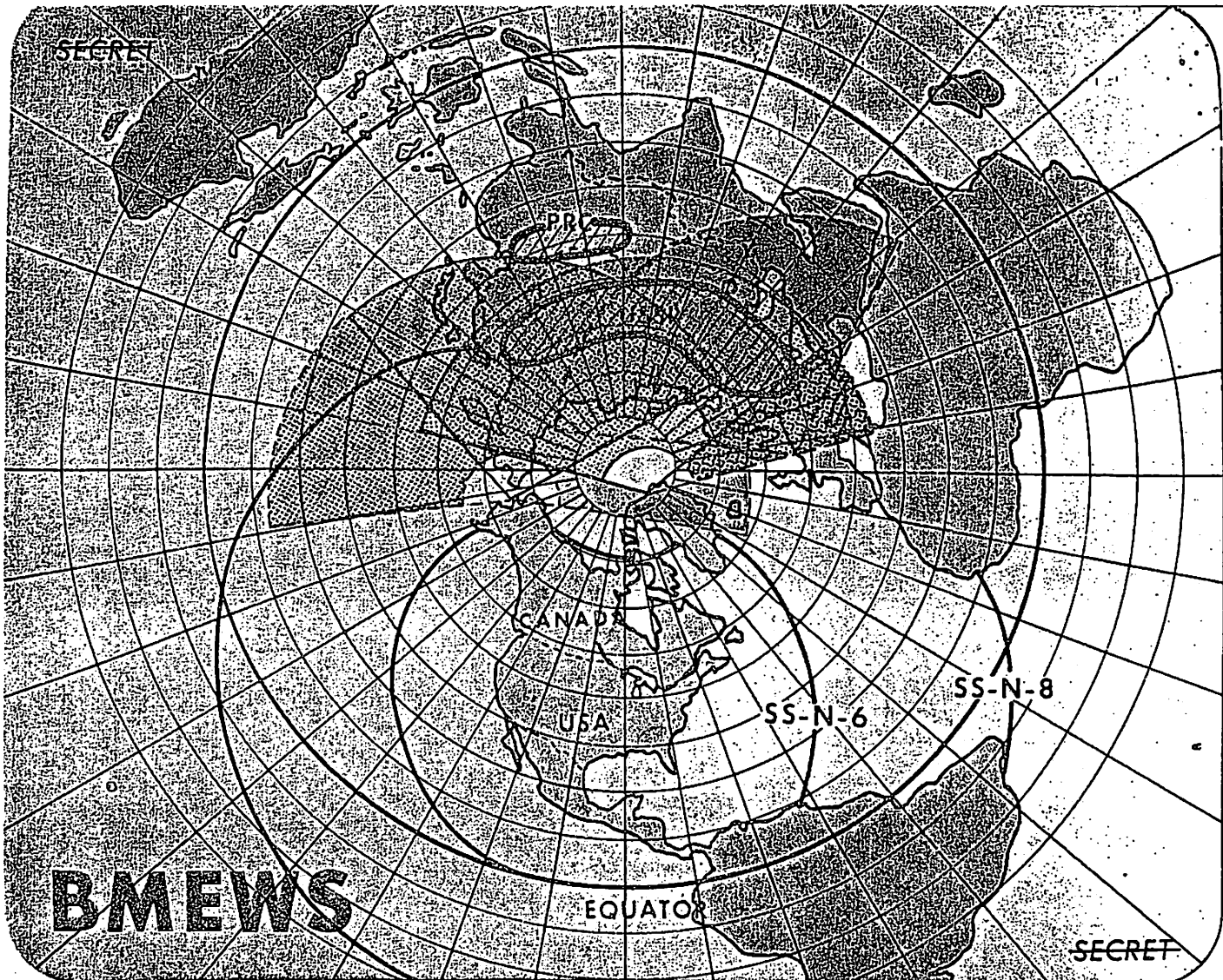
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Authority NND

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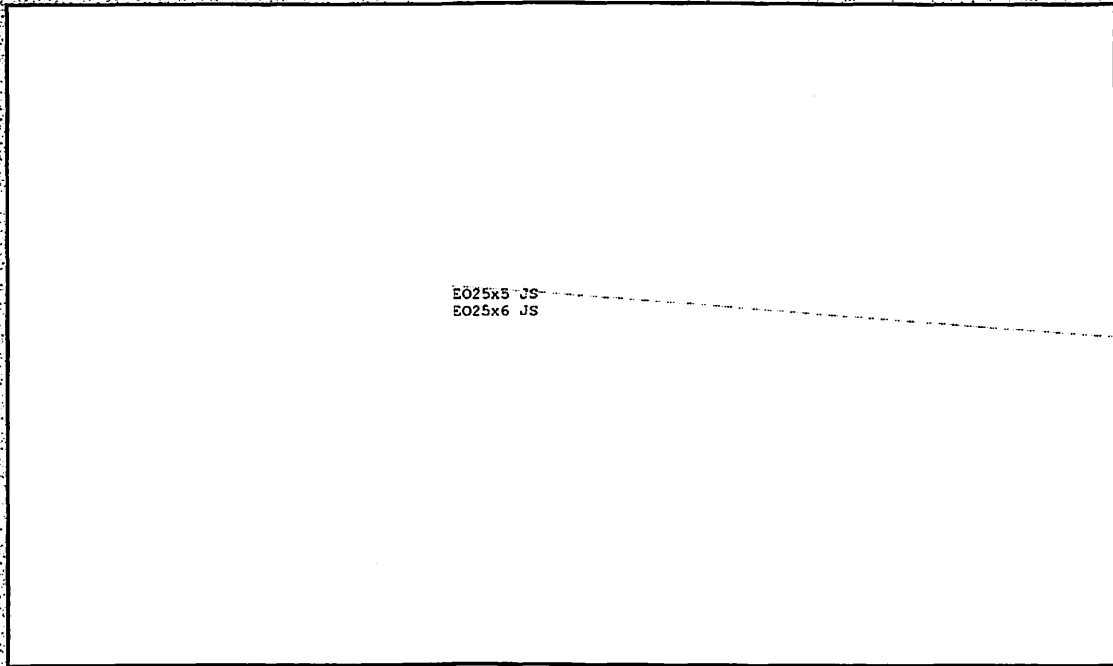
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DocId: 31099648

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72358

BMEWS SUMMARY



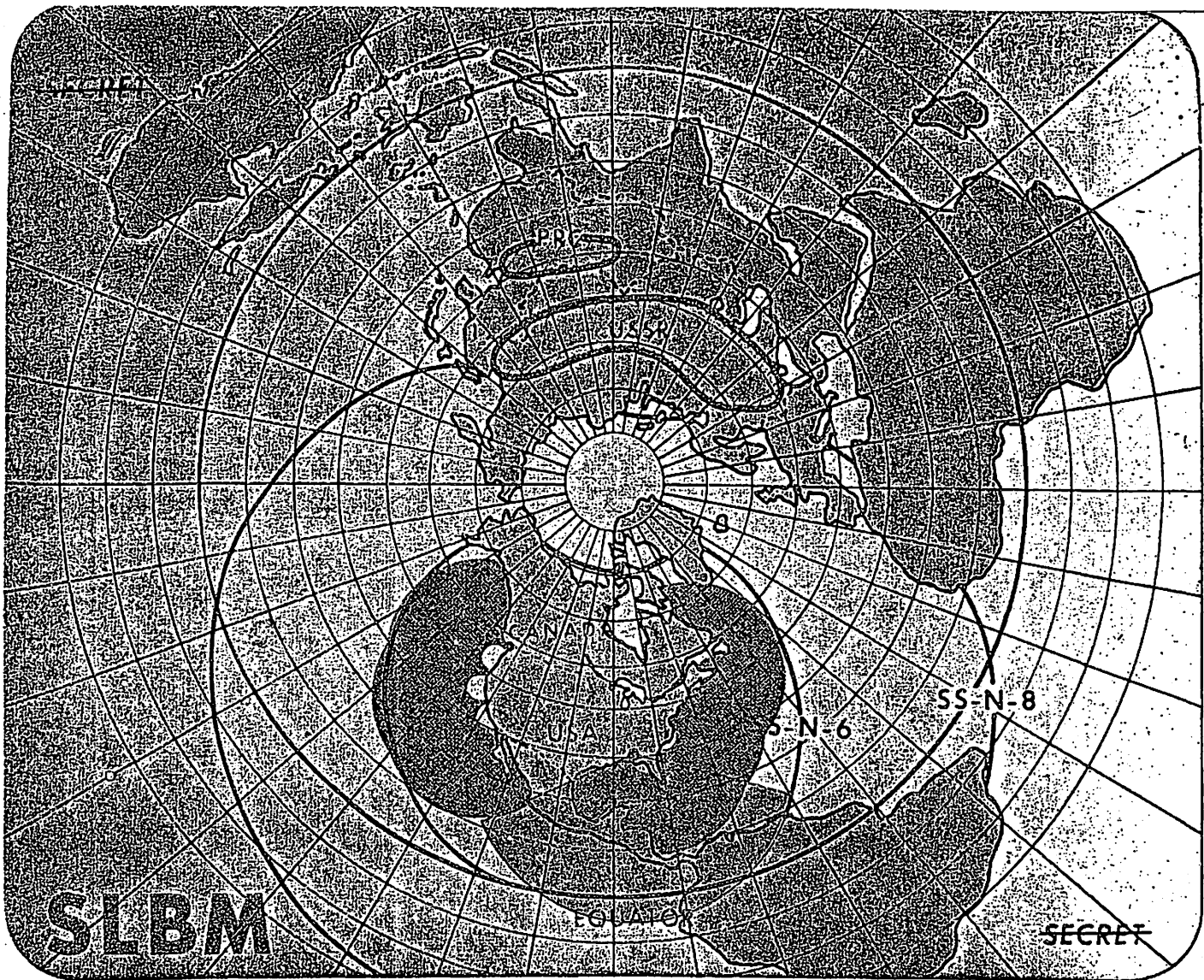
EO25x5 JS
EO25x6 JS

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Authority NND
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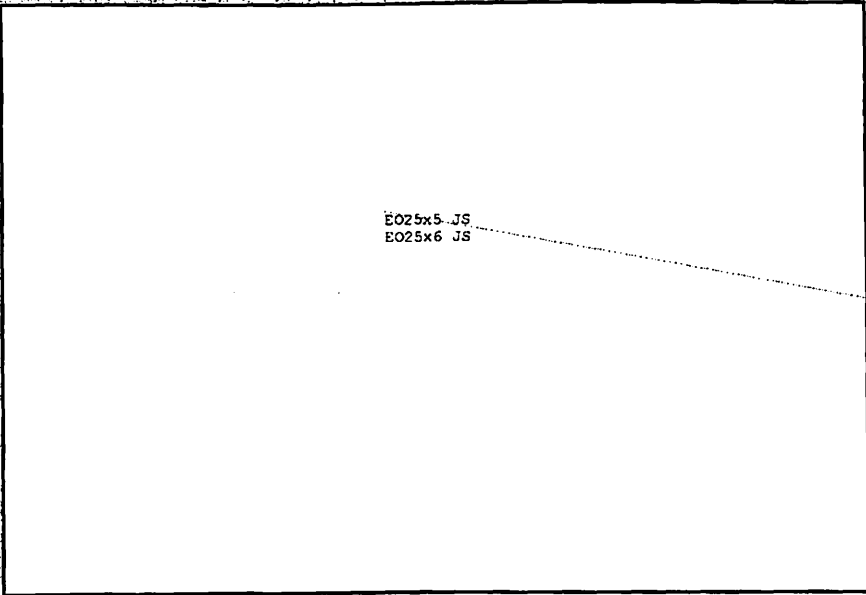


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DocId: 31099648

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SLBM SUMMARY



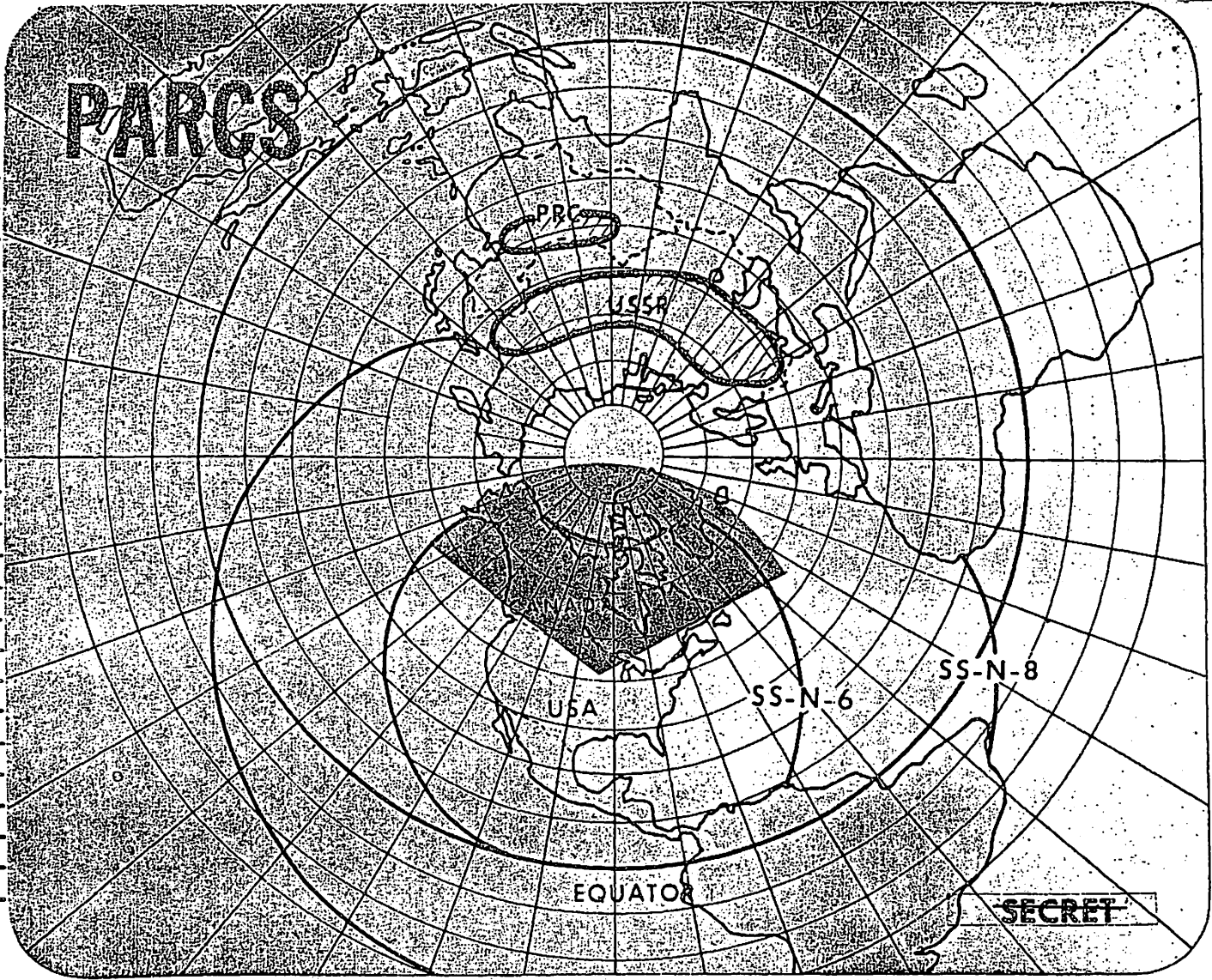
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PARCS



NW#: 25723

DocId: 31099648

DECLASSIFIED
Authority NND
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PARCS SUMMARY

EO25x5 JS
EO25x6 JS

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NW#: 25723

DocId: 31099648

DECLASSIFIED

Authority NND

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SECRET	①			②			③			④			⑤			⑥			⑦			⑧			⑨		
	MODE	NA ALRM	NORAD CONF	ALRM	MIN	1st IMPCT	SEN	C	R	A	EUR	UK	CONUS	WASH	SYS	AP	PT	ALM									
WARNING															W	E											
	ATTACK SIZE	⑩	ATTACK ORIGIN	⑪						S	L																
SLBMS										E	A																
SUBS LAUNCHING										B	M																
ICBMS										C	D																
COMPLEXES LAUNCHING										P	A																
IR/MRBMS																											
COMMENT	⑫			⑬																							
CONUS ATTACK TYPE	NUC RETAL	COMMAND CONTROL	URBAN INDUST	NCA	OTHER AREA																						
ASSESSMENT CREDENCE	⑮																										
PREDICTED IMPACT	⑯																										
NUDETS																											
COMMENT	⑰																										

NW#: 25723

DocId: 31099648

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TIME IN MINUTES FROM LAUNCH

0 5 10 15 20 25 30

SECRET	MODE	NA ALRM	NORAD CONF	ALRM		MIN 1st IMPCT		SEN SYS	CAP	RPT	ALM
				EUR	UK	CONUS	WASH				
WARNING	R E A L	I	H I			2 0	2 0	W E G			
	ATTACK SIZE	ATTACK ORIGIN						S L G			
SLBMS								E A G	C	1	
SUBS LAUNCHING								B M G	6		
ICBMS	E025x5 JS E025x6 JS							C D G			
COMPLEXES LAUNCHING	E025x5 JS E025x6 JS							P A G			
IR/MRBMS											
COMMENT											
CONUS ATTACK TYPE	NUC RETAL	COMMAND CONTROL	URBAN INDUST	NCA	OTHER AREA						
					PAC	EUR					
ASSESSMENT CREDENCE											
PREDICTED IMPACT											
NUDETS											
COMMENT											

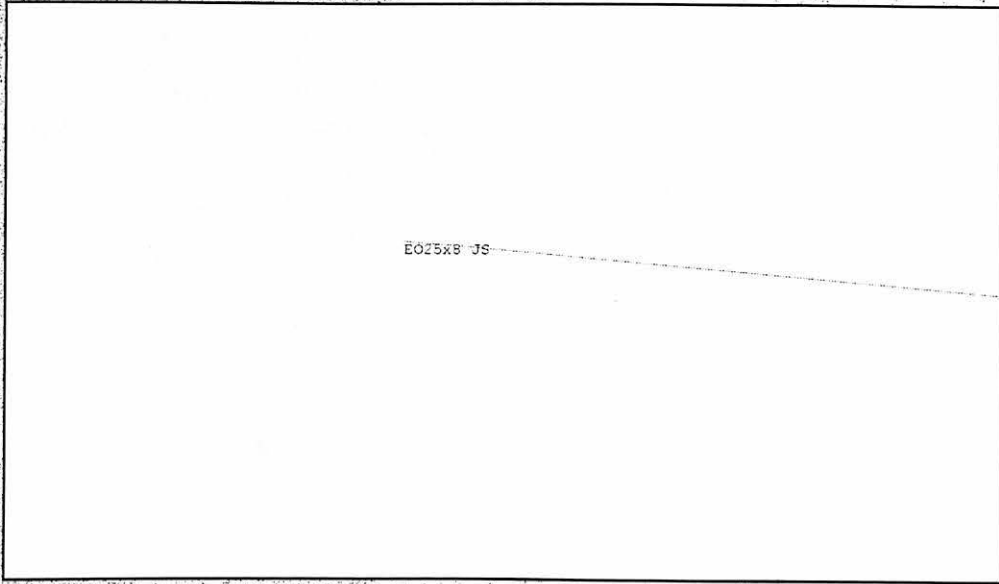
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NW#: 25723

DocId: 31099648

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KNOWN ATTACK DATA



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TIME IN MINUTES FROM LAUNCH

0 5 10 15 20 25 30

SECRET	MODE	NA ALRM	NORAD CONF	ALRM		MIN 1st IMPCT		SEN SYS	CAP	RPT	ALM	
				EUR	UK	CONUS	WASH					
WARNING	R E A L	I	H I			I	3	1	3	W	E	G
	ATTACK SIZE	ATTACK ORIGIN				S	L	G				
SLBMS						E	A	G	C	1		
SUBS LAUNCHING						B	M	G	C	1		
ICBMS	E025x5 JS E025x6 JS						C	D	G			
COMPLEXES LAUNCHING							P	A	G	5		
IR/MRBMS												
COMMENT												
CONUS ATTACK TYPE	NUC RETAL	COMMAND CONTROL	URBAN INDUST	NCA	OTHER AREA							
					PAC	EUR						
ASSESSMENT CREDENCE												
PREDICTED IMPACT												
NUDETS												
COMMENT												

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NW#: 25723

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KNOWN ATTACK DATA

E025x5 JS
E025x8 JS

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NATIONAL MILITARY COMMAND SYSTEM
TACTICAL WARNING AND ATTACK ASSESSMENT

THIS BRIEFING WILL DISCUSS THE CAPABILITIES OF THE
NATIONAL MILITARY COMMAND SYSTEM MISSILE WARNING SENSORS TO
PROVIDE TACTICAL WARNING AND ATTACK ASSESSMENT INFORMATION TO
THE NCA FOR SIOP DECISIONMAKING.

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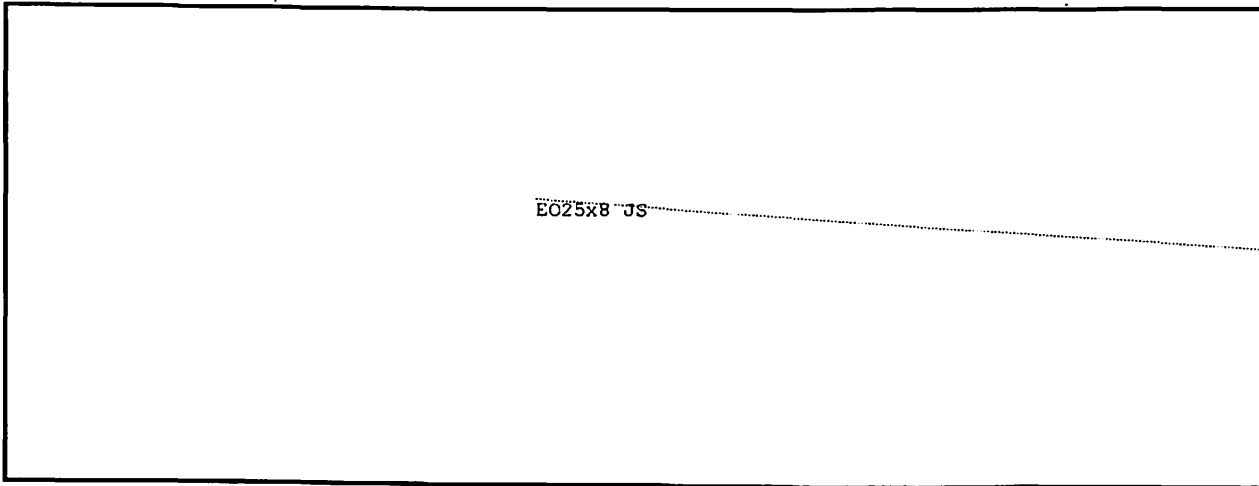
THE BRIEFING WILL DESCRIBE

E025x5...JS

RATHER THAN THEIR TECHNICAL CAPABILITIES. INDIVIDUALLY, THE SYSTEMS HAVE UNIQUE CAPABILITIES AND LIMITATIONS. COLLECTIVELY, THEY COMBINE TO PROVIDE OVERALL CONFIRMATION OF A STRATEGIC ATTACK. THE TWO CONTRIBUTING SYSTEMS, DEFENSE SUPPORT PROGRAM AUGMENTATION AND COBRA DANE, NORMALLY PROVIDE TECHNICAL INTELLIGENCE DATA ON MISSILE AND SPACE LAUNCHES. HOWEVER, AT DEFCON THREE THEY ASSUME A TACTICAL WARNING MISSION.

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EO25x8 JS

~~SECRET~~

Nine Excised Pages

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A BRIEF SCENARIO WILL NOW BE PRESENTED REPRESENTING A MASS ICBM ONLY ATTACK ON THE UNITED STATES. A GRAPHIC OF THE ALPHA NUMERIC WALL DISPLAY WILL BE USED AS A CONVENIENT VEHICLE IN WHICH TO PORTRAY THE INFORMATION AVAILABLE TO ARRIVE AT A SIOP OPTION DECISION. THE CIRCLED NUMBERS ON THIS BLANK SLIDE WILL BE USED WITH THE FOLLOWING REFERENCE TO DESCRIBE THE INFORMATION WHICH MAY APPEAR IN THE BLANKS.

- 1 EITHER REAL OR TEST
- 2 HIGHEST SENSOR GENERATED NORTH AMERICAN ALARM LEVEL (3, 2, OR 1 - HIGHEST)
- 3 NORAD ASSESSED CONFIDENCE (NO, MED, OR HI) THAT A STRATEGIC MISSILE ATTACK ON NORTH AMERICA HAS STARTED.
- 4 THE EUROPEAN AND UNITED KINGDOM ALARM LEVELS (3, 2, OR 1 - HIGHEST)
- 5 PREDICTED TIME IN MINUTES TO FIRST IMPACT ON CONUS OR WASHINGTON, D.C.
- 6 SENSOR SYSTEMS LIST: WE IS DSP WEST; SL IS SLBM D&W; EA IS DSP EAST; BM IS BMEWS; CD IS COBRA DANE; PA IS PARCS.
- 7 OPERATIONAL CAPABILITY OF SYSTEM: G IS GREEN OR 75 TO 100%; Y IS YELLOW OR 25 TO 74%; R IS RED OR LESS THAN 25%.

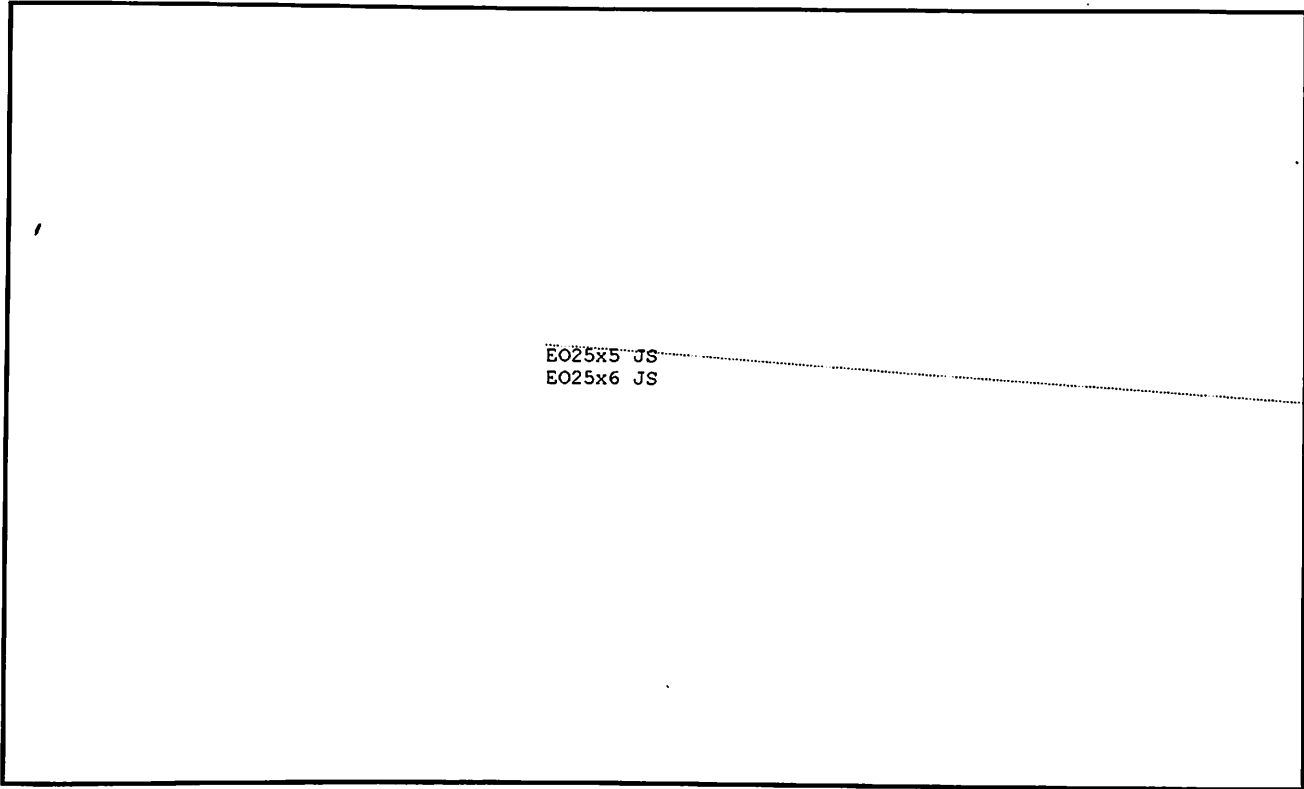
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- 8 INDICATES A LISTED SENSOR IS EITHER CONTRIBUTING DATA - "C," NOT CONTRIBUTING DATA - N, OR DISPLAY 1 THROUGH 9, THE MINUTES UNTIL THE SENSOR SHOULD REPORT DATA.
- 9 SENSOR GENERATED ALARM LEVEL (3, 2, OR 1 - HIGHEST)
- 10 UNDER ATTACK SIZE THE NUMBER OF SLBMs, ICBMs, LAUNCH SITES, ETC., WILL BE SHOWN.
- 11 UNDER ATTACK ORIGIN, THE COUNTRY EO25x6 JS OR GEOGRAPHIC AREA OF LAUNCH (ATLANTIC, PACIFIC, ARCTIC, OR SOUTHERN) WILL BE SHOWN.
- 12 CINCNOAD CAN SEND FULL TEXT MESSAGES.
- 13 TARGET CLASS DESIGNATION
- 14 EO25x5 JS
- 15 COMPUTER DETERMINATION (LO, MED, OR HI) THAT A TARGET CLASS IS UNDER ATTACK.
- 16 THE PREDICTED IMPACTS AND NUDETS WILL BE SHOWN NUMERICALLY FOR THE TARGET CLASSES SHOWN.

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EO25x5 JS
EO25x6 JS

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THIS CHART LISTS THE KNOWN ATTACK DATA AT 3 MINUTES INTO THE
ATTACK.

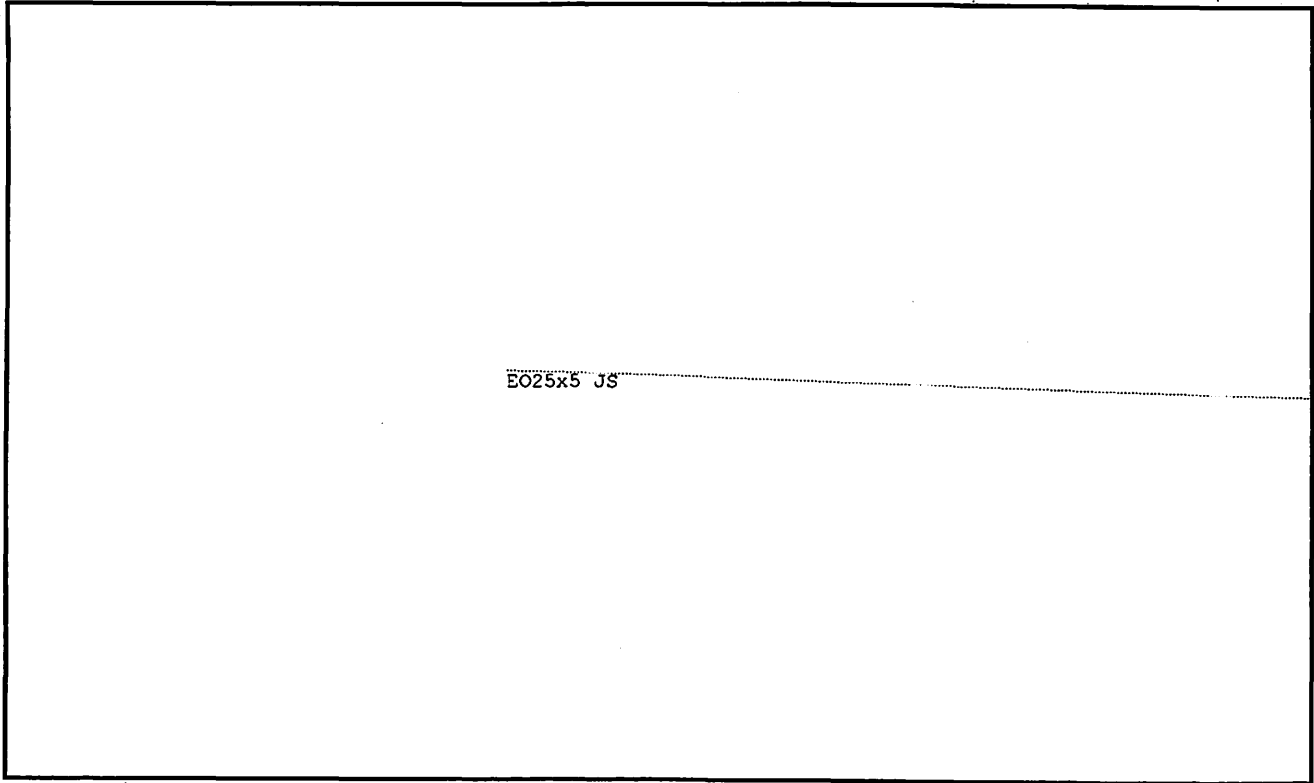
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Authority NND

72358

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EO25x5 JS

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UNCLASSIFIED

THE KNOWN DATA IS SUMMARIZED HERE. WHEN A DECISION IS REACHED, THE EXECUTION ORDER WILL BE TRANSMITTED.

UNCLASSIFIED

UNCLASSIFIED

THIS PRESENTATION DISCUSSED THE CAPABILITIES AND LIMITATIONS OF THE MISSILE WARNING AND ATTACK ASSESSMENT SYSTEMS AS THEY RELATE TO THE SIOP DECISIONMAKING. FOR SIMPLICITY, THE SLBM THREAT WAS NOT PORTRAYED IN THIS SCENARIO AND COULD REDUCE AVAILABLE DECISION TIME DRASTICALLY.

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SIOP EXECUTION CONSIDERATIONS

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NW#: 25723

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SIOP EXECUTION (NATIONAL LEVEL)

● THE JOINT CHIEFS OF STAFF RECOMMEND:

- APPROPRIATE ATTACK OPTION
- EXECUTION OR WITHHOLD OF OPTIONAL TARGET CATEGORIES

● NATIONAL COMMAND AUTHORITIES:

- CONSIDER RECOMMENDATIONS AND SITUATION

● THE PRESIDENT

EO25x5 JS

● CJCS FOR THE JCS

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SIOP ATTACK OPTION AVAILABILITY

EO25x5 JS

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EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2168(a)(1)(C) - FRD DOE

NW#: 25723

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SURPRISE ATTACK RESPONSE PROCEDURES

NW#: 25723

DocId: 31099648

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72358

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ALTERNATIVE RESPONSE 1 (MINIMUM EXECUTION OF MAO 1)

EO25x5 JS
EO25x6 JS

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NW#: 25723

DocId: 31099648

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ALTERNATIVE 1 WEAPONS

EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2169(a)(1)(C) - FRD DOE

NW#: 25723

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Authority NND
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ALTERNATIVE 1 WEAPONS

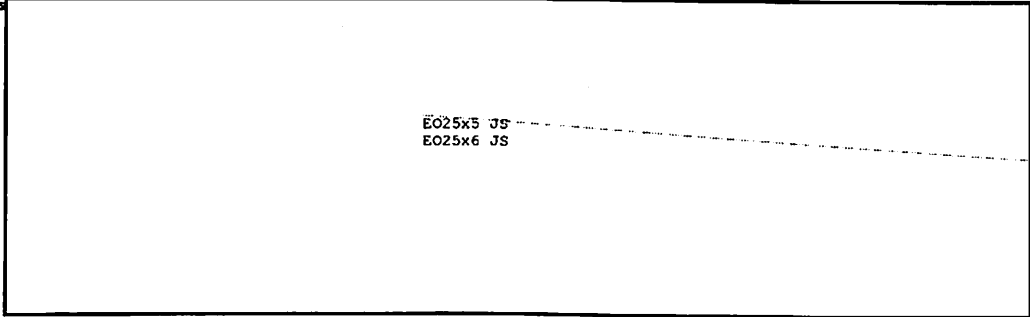
EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2168(a)(1)(C) - FRD DOE

NW#: 25723

DocId: 31099648

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Authority NND
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ALTERNATIVE RESPONSE 2 (COMPLETE EXECUTION OF MAO 1)



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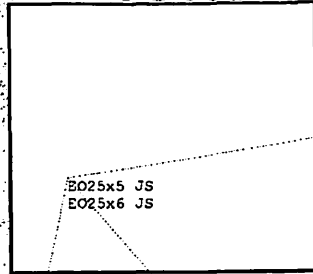
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Authority NND
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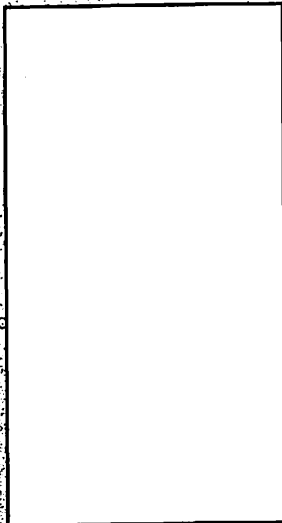
Three Excised Pages

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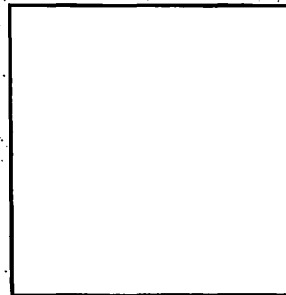
ALTERNATIVE 1 EXECUTION DECISIONS



EX	WH
EX	WH
EX	WH
EX	WH



EX	WH
EX	WH
EX	WH
EX	WH
EX	WH
EX	WH
EX	WH
EX	WH



EX	WH
EX	WH
EX	WH
EX	WH

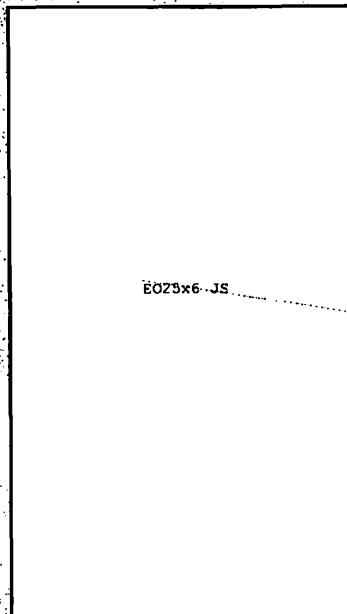
EX = EXECUTE
WH = WITHHOLD

NW#: 25723

DocId: 31099648

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Authority NND
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ALTERNATIVE 3 EXECUTION DECISIONS



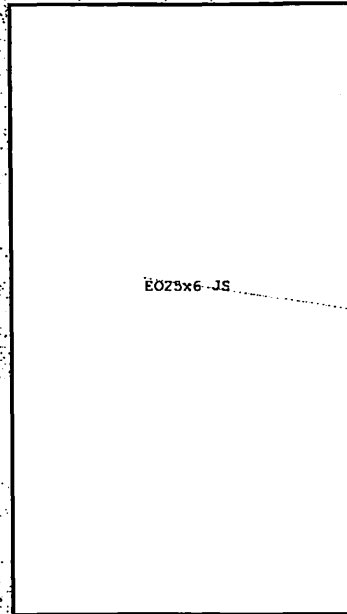
E025x6-JS

(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH

EX = EXECUTE
WH = WITHHOLD

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ALTERNATIVE 3 EXECUTION DECISIONS



(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH
(EX)	WH

EX = EXECUTE
WH = WITHHOLD

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ALTERNATIVE 3 WEAPONS

EO25x5 JS
EO25x6 JS
FOIA(b) (3) - 42 USC 2168(a)(1)(C) - FRD DOE

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EXECUTION CONSIDERATIONS

- MULTI-STEP EXECUTION
- COMMAND CONTROL CONNECTIVITY
- FORCE VULNERABILITY

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Three Excised Pages

SELECTED ATTACK OPTION 1

EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2168(a)(1)(C) - FRD DOE

IONS

EX WH

EX WH

EX WH

EX=EXECUTE

WH=WITHHOLD

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SELECTED ATTACK OPTION 2

WEAPONS

DECISIONS

EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2168(a)(1)(C) - FRD DOE

EX WH

EX WH

EX WH

EX WH

EX WH

EX WH

EX WH

EX=EXECUTE
WH=WITHHOLD

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7230

SELECTED ATTACK OPTION 3

WEAPONS

DECISIONS

EO25x5 JS
EO25x6 JS
FOIA(b)(3) - 42 USC 2168(a)(1)(C) - FRD DOE

EX WH

EX=EXECUTE

WH=WITHHOLD

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~~WORKING PAPER~~

HEADER

THIS BRIEFING WILL REVIEW THE SIOP OPTIONS AVAILABLE FOR EXECUTION UNDER DIFFERING CONDITIONS. IT IS DESIGNED AS A FOLLOW ON TO THE PRESENTATION ON OUR TACTICAL WARNING SYSTEMS.

YOU SAW SOME OF THE SLIDES THAT WILL BE USED TODAY AT THE BLAIR HOUSE IN JANUARY. I HAVE SELECTED SEVERAL OF THESE TO REVIEW CERTAIN KEY POINTS. HOPEFULLY THE BRIEFING WILL STIMULATE DISCUSSION AND ANSWER ANY QUESTIONS YOU MAY HAVE AS A RESULT OF THE IVORY ITEM EXERCISES.

THE OVERALL CLASSIFICATION IS ~~TOP SECRET~~.

1
~~TOP SECRET~~
WORKING PAPER

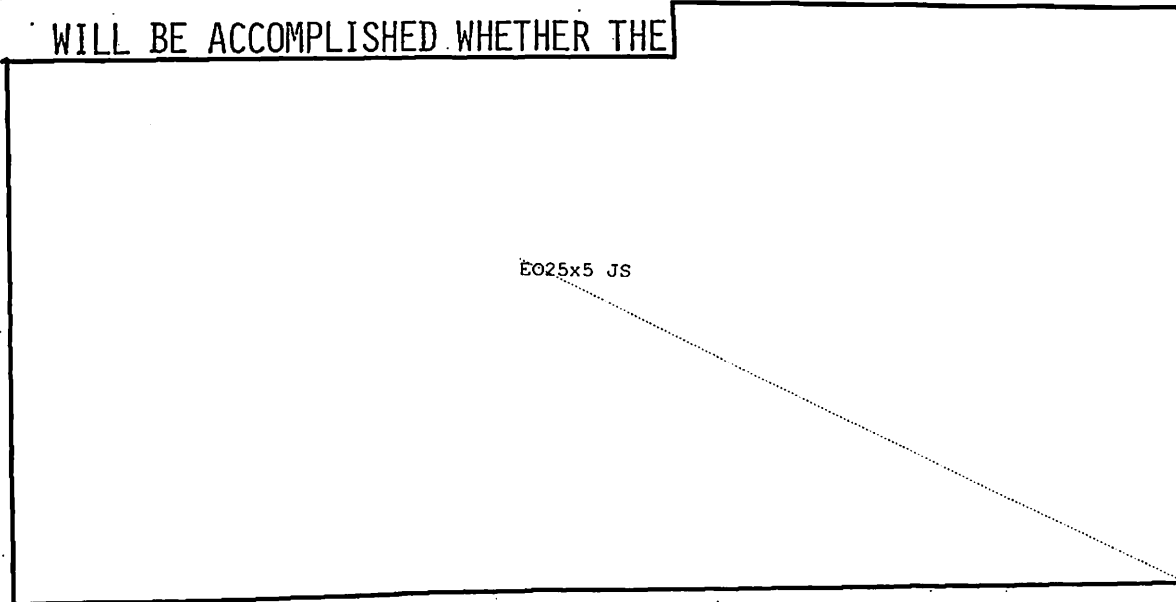
29 JUN 77

SIOP EXECUTION (NATIONAL LEVEL)

~~(S)~~ DURING THE LAST IVORY ITEM EXERCISE THERE WERE QUESTIONS RAISED AS TO WHO WOULD BE AVAILABLE FOR CONSULTATION AND RECOMMENDATIONS. BY WAY OF REVIEW, THESE ARE THE RESPONSIBILITIES ASSOCIATED WITH SIOP EXECUTION HERE AT THE NATIONAL LEVEL.

(PAUSE)

I WOULD LIKE TO STRESS THAT THESE SAME PROCEDURES WILL BE ACCOMPLISHED WHETHER THE



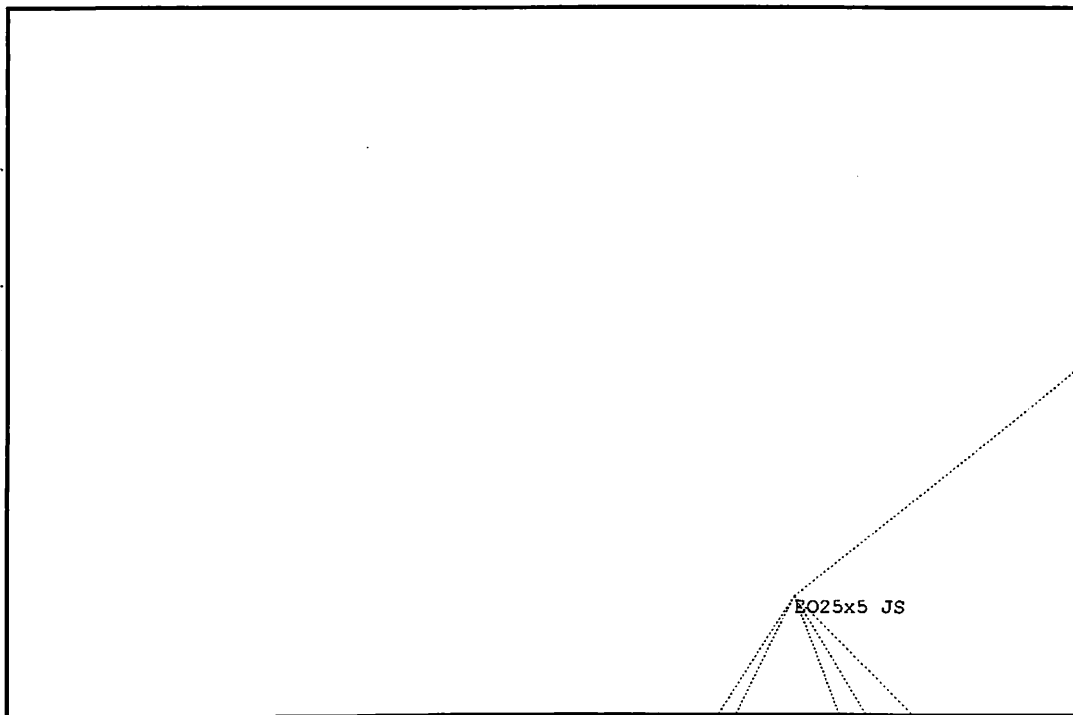
IN A MOUNTING CRISIS SITUATION, ALL SENIOR PRINCIPALS AND STAFFS WOULD BE AVAILABLE TO EXAMINE A WIDE RANGE OF OPTIONS.

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2

WORKING PAPER

29 JUN 77



E025x5 JS

WITH OUR FORCES FULLY GENERATED TO ALERT, BOTH THE

[REDACTED]

IN A NON-TIME CONSTRAINED MOUNTING CRISIS SITUATION,
SUFFICIENT TIME SHOULD BE AVAILABLE FOR GENERATION
OF OUR FORCES. THE SELECTED [REDACTED]

[REDACTED]

[REDACTED] WILL BE DISCUSSED LATER IN THE
BRIEFING.

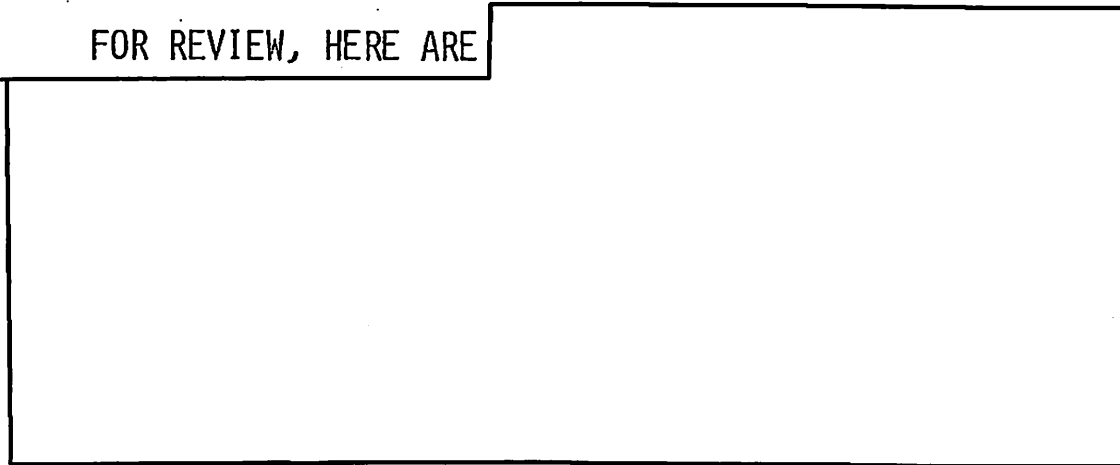
RETURNING TO THE DAY-TO-DAY ALERT SITUATION, I WILL
NOW DISCUSS [REDACTED]

[REDACTED]

29 JUN 77

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FOR REVIEW, HERE ARE



E025x5 JS

SIR, DUE TO THE LIMITED PRC THREAT AGAINST THE U.S.
AT THE PRESENT TIME AND IN THE INTEREST OF BREVITY,
I PLAN TO ONLY ADDRESS

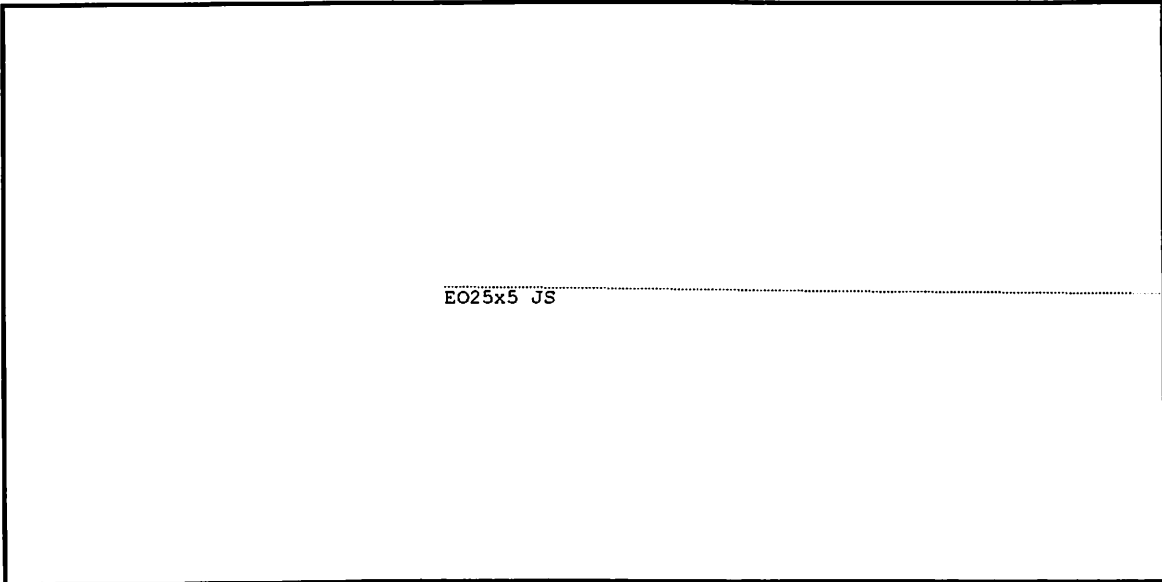


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WORKING PAPER

29 JUN 77

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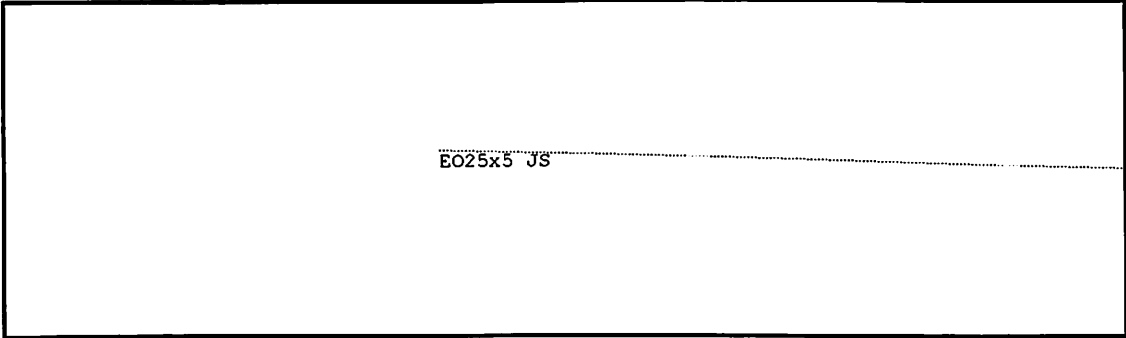
EO25x5 JS

IN THE NEXT SERIES OF CHARTS I WILL REVIEW THE THREE
RESPONSES.

5
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WORKING PAPER

29 JUN 77

~~TOP SECRET~~
WORKING PAPER



EO25x5 JS

5-A
~~TOP SECRET~~
WORKING PAPER

29 JUN 77

~~(TS)~~ THIS IS A GRAPHIC DEPICTION OF ALTERNATIVE ONE.

IT IS

EO25x5 JS

THIS CHART SHOWS THE TOTAL NUMBER OF WEAPONS EXECUTED IN ALTERNATIVE ONE, THE SMALLER NUMBER IN PARENTHESES IS THE NUMBER OF WEAPONS ON DAILY ALERT.

THIS IS THE SMALLEST OF THE THREE RECOMMENDED RESPONSES. IT MINIMIZES USSR ECONOMIC DAMAGE AND FATALITIES. NEGOTIATION MAY BE POSSIBLE SINCE THE USSR GOVERNMENT STRUCTURE IS NOT ATTACKED.

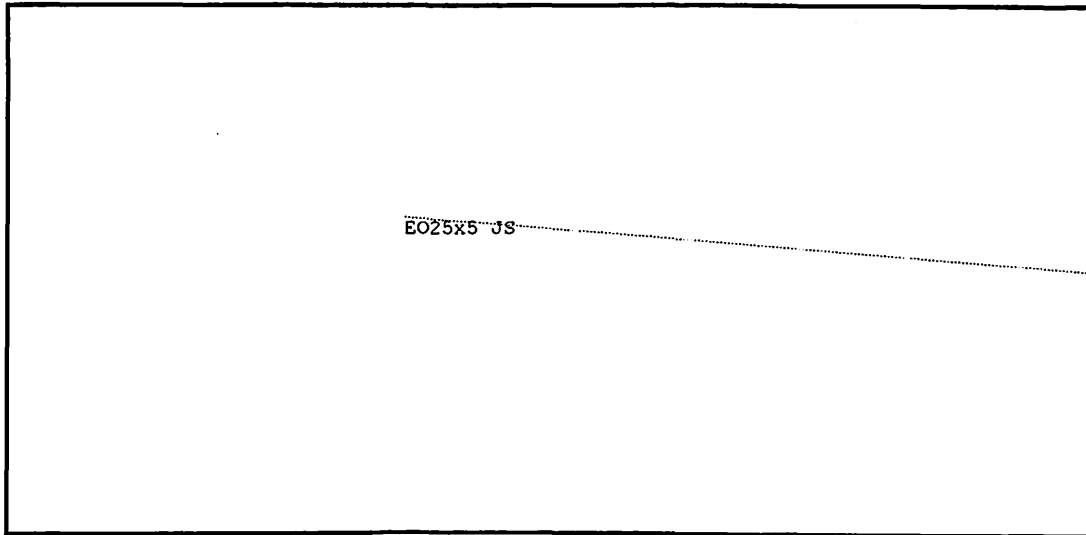
TWO MAJOR DISADVANTAGES EXIST.

EO25x5 JS

29 JUN 77

7
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WORKING PAPER

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WORKING PAPER



EO25X5 JS

8

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~~(TS)~~ AS SHOWN, ALTERNATIVE TWO IS

E025x5 JS

NO WITHHOLDS.

9

29 JUN 77

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NW#: 25723

DocId: 31099648

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Authority NND

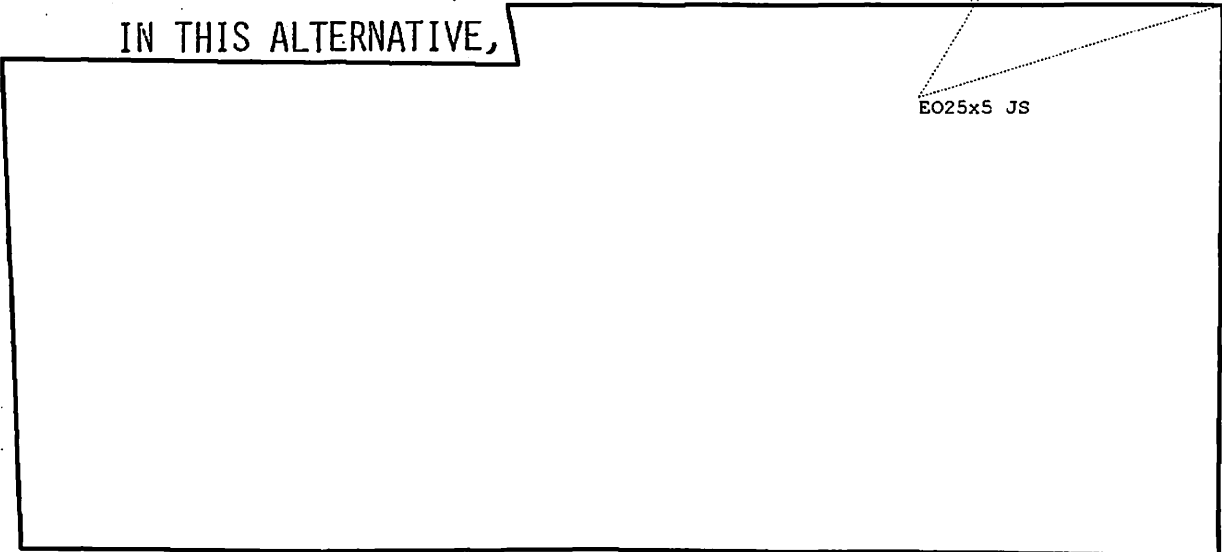
72358

HERE ARE THE WEAPONS IN THE FORMAT PREVIOUSLY SHOWN -



THE NUMBERS ASSOCIATED WITH THE OPTIONAL WITHHOLDS ARE PART OF THAT TOTAL.

IN THIS ALTERNATIVE,



EO25x5 JS

29 JUN 77

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~~TOP SECRET~~
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THE ALTERNATIVE THREE WEAPONS.

13
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EO25x6 JS

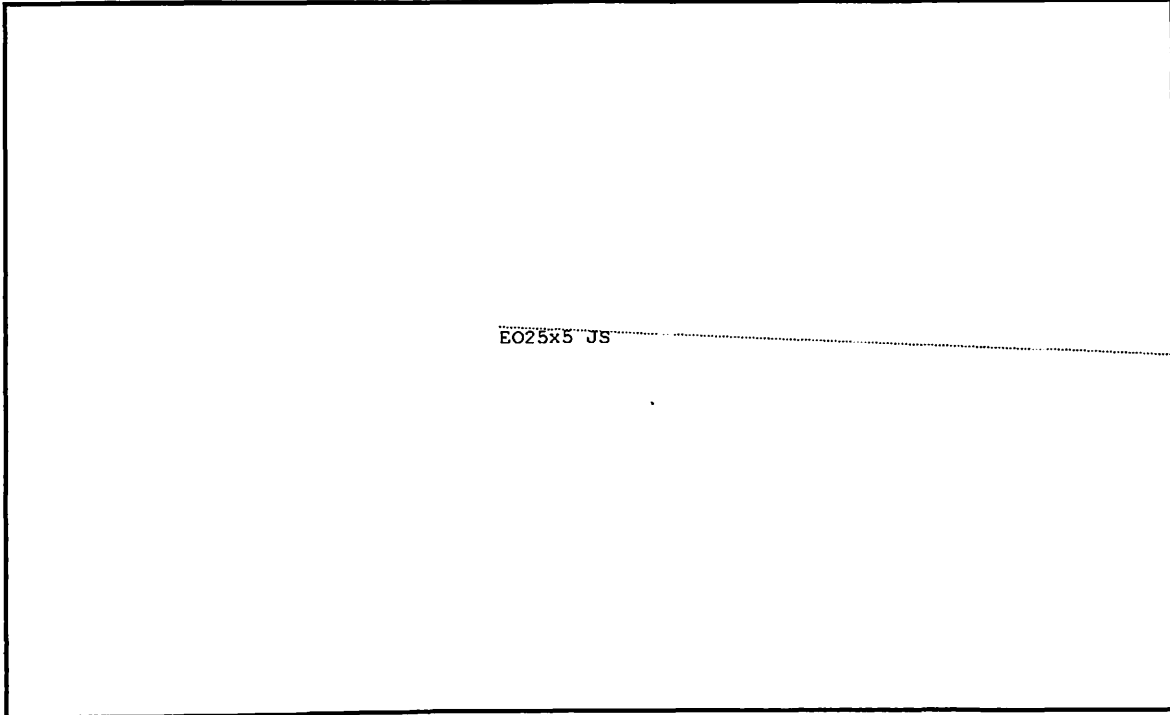
14

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~~TOP SECRET~~
WORKING PAPER

REMOVAL OF THESE TWO KEY ELEMENTS COULD RESULT IN A
DELAYED EXECUTION ORDER.

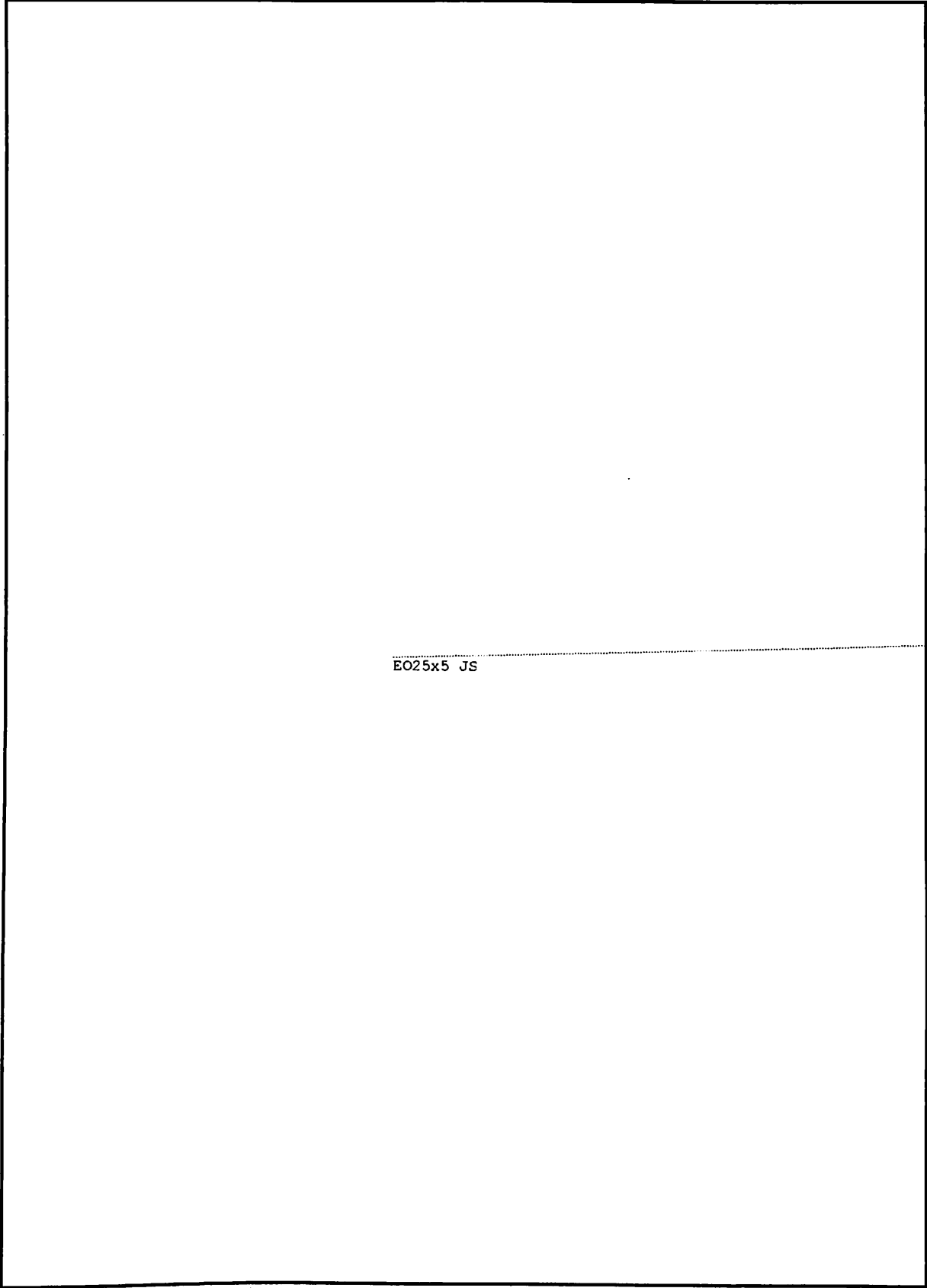


THE BEST COURSE OF ACTION WOULD APPEAR TO BE SELECTION
OF THE SINGLE MOST APPROPRIATE RESPONSE AFTER THE BEST
POSSIBLE ASSESSMENT OF THE ENEMY ATTACK.

14 (CONT'D)

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SINCE I HAVE PREVIOUSLY REVIEWED THE MAJOR ATTACK OPTIONS WITH YOU, FOR THE REMAINDER OF THE BRIEFING I WILL FOCUS ON THE SELECTED ATTACK OPTIONS WHICH WOULD BE AVAILABLE IN A MOUNTING CRISIS SITUATION IN WHICH TIME HAS BEEN AVAILABLE FOR FORCE GENERATION. A SITUATION IN WHICH TIME PERMITS DELIBERATION ON POSSIBLE COURSES OF ACTION. SUCH A DISCUSSION WOULD HOPEFULLY BEGIN EARLY IN THE CRISIS AND MIGHT EVEN LEAD TO A SELECTION OF POSSIBLE RECOMMENDATIONS TO THE NATIONAL COMMAND AUTHORITY. THESE RECOMMENDATIONS COULD BE UPDATED AS THE SITUATION PROGRESSED.

16

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~~(TS)~~ THIS CHART SHOWS THE FIVE
SELECTED ATTACK OPTIONS, THEIR ASSOCIATED OBJECTIVES
AND THE NUMBER OF WEAPONS ASSIGNED WHEN THE OPTION IS
FULLY GENERATED. ONLY THE FIRST THREE SAOs WILL BE
ADDRESSED TODAY.

20

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THESE ARE THE WEAPONS AND DECISIONS ASSOCIATED WITH
SA01.

21

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SA02.

22

29 JUN 77

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AND SA03.

(PAUSE)

AS STATED PREVIOUSLY, GENERATION TIME HAS A DECIDED EFFECT ON THE OPTIONS AVAILABLE FOR EXECUTION. THE FOLLOWING TWO CHARTS WILL GRAPHICALLY DEPICT THIS RELATIONSHIP.

23

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SIR, WE HAVE ATTEMPTED TO PLACE IN CONTEXT THE USE OF THE DECISION HANDBOOK ALTERNATIVE RESPONSES RELATIVE TO THE IVORY ITEM EXERCISE AND IN SO DOING PORTRAY SOME OF THE PROBLEMS WE ENVISION WITH A MULTI-STEP EXECUTION AND A PREPOSITIONED EXECUTION MATRIX.

AT THE SAME TIME WE REVIEWED FOR YOU THE SIOP OPTIONS THAT ARE AVAILABLE IN A MOUNTING CRISIS SITUATION; A CASE IN WHICH TIME IS AVAILABLE FOR DELIBERATIONS ON A BROAD RANGE OF RESPONSES AND OUR FORCES HAVE BEEN GENERATED.

THIS CONCLUDES MY PRESENTATION.

~~TOP SECRET~~

26

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