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~~TOP SECRET NOFORN~~

**INTEGRATED
STRIKE & INTERDICTION
PLAN**

DESIGNATED TARGET LIST

SLIDES

SPECIAL HANDLING REQUIRED
NOT RELEASABLE TO
FOREIGN NATIONALS
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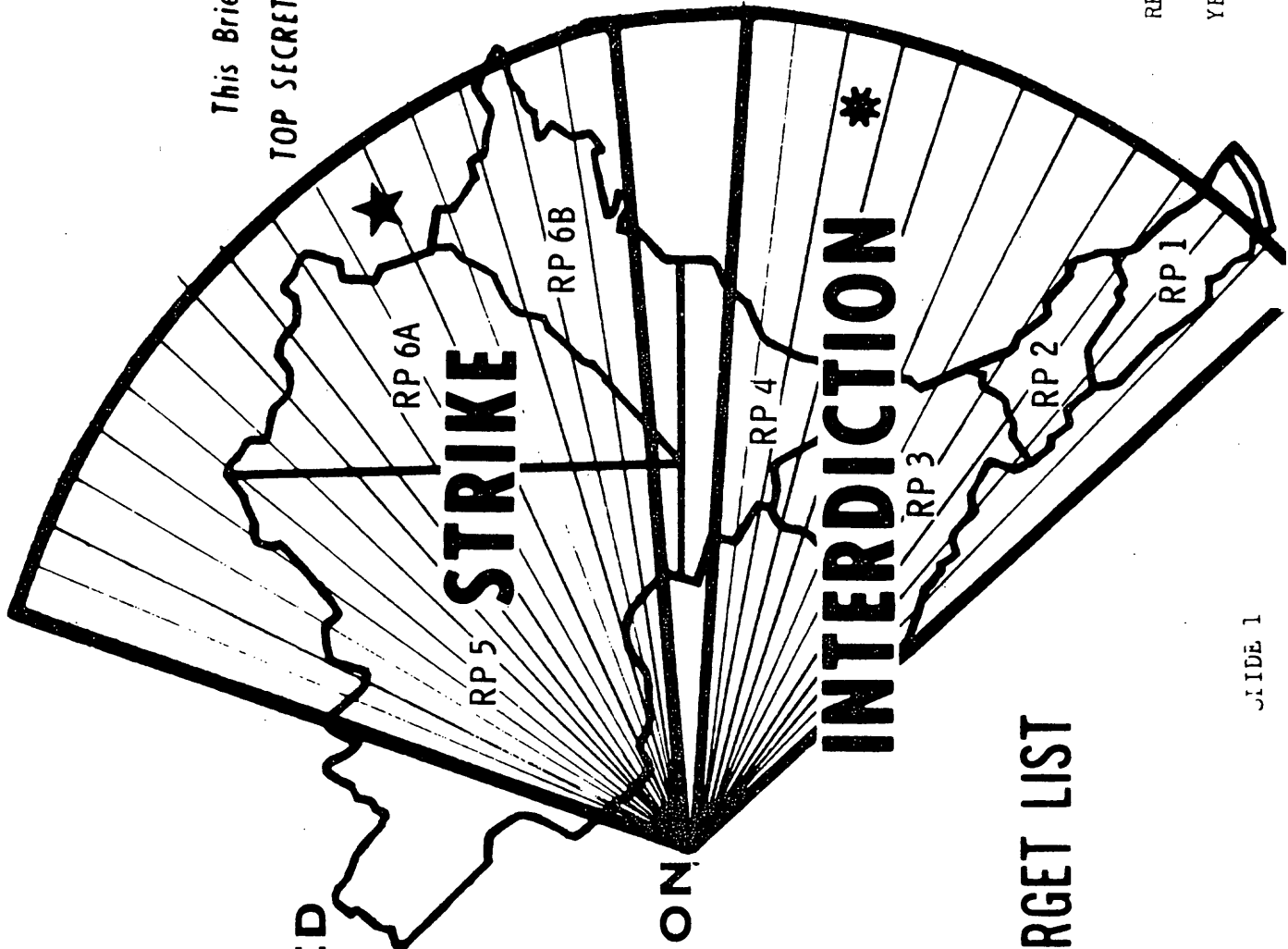
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TOP SECRET CONTROL
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Date 31 Oct 94
70174025
941103-278

INTEGRATED STRIKE and INTERDICTION PLAN



This Briefing is
TOP SECRET NO-FORN

DESIGNATED TARGET LIST

LEGEND

★
RED

★
YELLOW

DOWNGRADED AT 12 YEAR TUMES...
NOT AUTOMATIC...
DOD DEPT. OF DEFENSE

JIDE 1

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BRIEFING ORDER

- INTRODUCTION
- TARGET GROUPINGS
- ANALYSIS METHODOLOGY
- ANALYSIS SUMMARY
- AIR CAMPAIGN
- CONCLUSIONS
- RECOMMENDATIONS

TARGET GROUPINGS STUDIED

- ELECTRICAL POWER
- AIRFIELDS
- INDUSTRIAL
- TRANSPORTATION
- MILITARY
- COMMAND AND CONTROL
- POL
- LOCKS AND DAMS
- EXTRACTIVE
PORTS

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**NVN ECONOMY AND
TARGET GROUPING INTERRELATIONSHIPS**

- INTERRELATIONSHIPS OF THE NVN ECONOMY
- HOW THE ECONOMY OF NVN SUPPORTS TARGET GROUPINGS
- INTERRELATIONSHIPS OF TARGET TO TARGET AND TARGET GROUP TO TARGET GROUP

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SOURCES OF DATA FOR ECONOMETRIC STUDY

TECHNICAL DATA SOURCES

INTELLIGENCE DATA SOURCES

ECONOMIC TEXTS & ARTICLES BY:

LEONTIEF
THEIL
BATOR
SAMUELSON
SOLOW
BAUMOL

STUDIES & REPORTS BY:

DIA
CIA
RAND CORP.
DEPT. OF COMMERCE
DEPT. OF INTERIOR
NPIC
NSA
OTHER DOD AGENCIES

INDUSTRIAL TEXTS & ARTICLES RELATING TO:

MINING & METALLURGY
INDUSTRIAL PROCESSES
AGRICULTURE
FORESTRY
INDUSTRIAL CHEMISTRY
OTHER EMPIRICAL WORKS

CONSULTANTS:

DIA
CIA
RAND CORP.
AIR STAFF AGENCIES
OTHER GOV'T. AGENCIES

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THE ECONOMETRIC TECHNIQUE

SYSTEMATICALLY:

- IDENTIFIES COMMODITIES REQUIRED FOR SUPPORT OF THE NVN ECONOMY AND MILITARY OBJECTIVES.
- DEFINES THE SOURCE OF THE COMMODITY AS DOMESTIC OR IMPORT.
- SHOWS HOW THE COMMODITY IS DISTRIBUTED.
- SHOWS HOW AND WHERE THE COMMODITY IS USED.

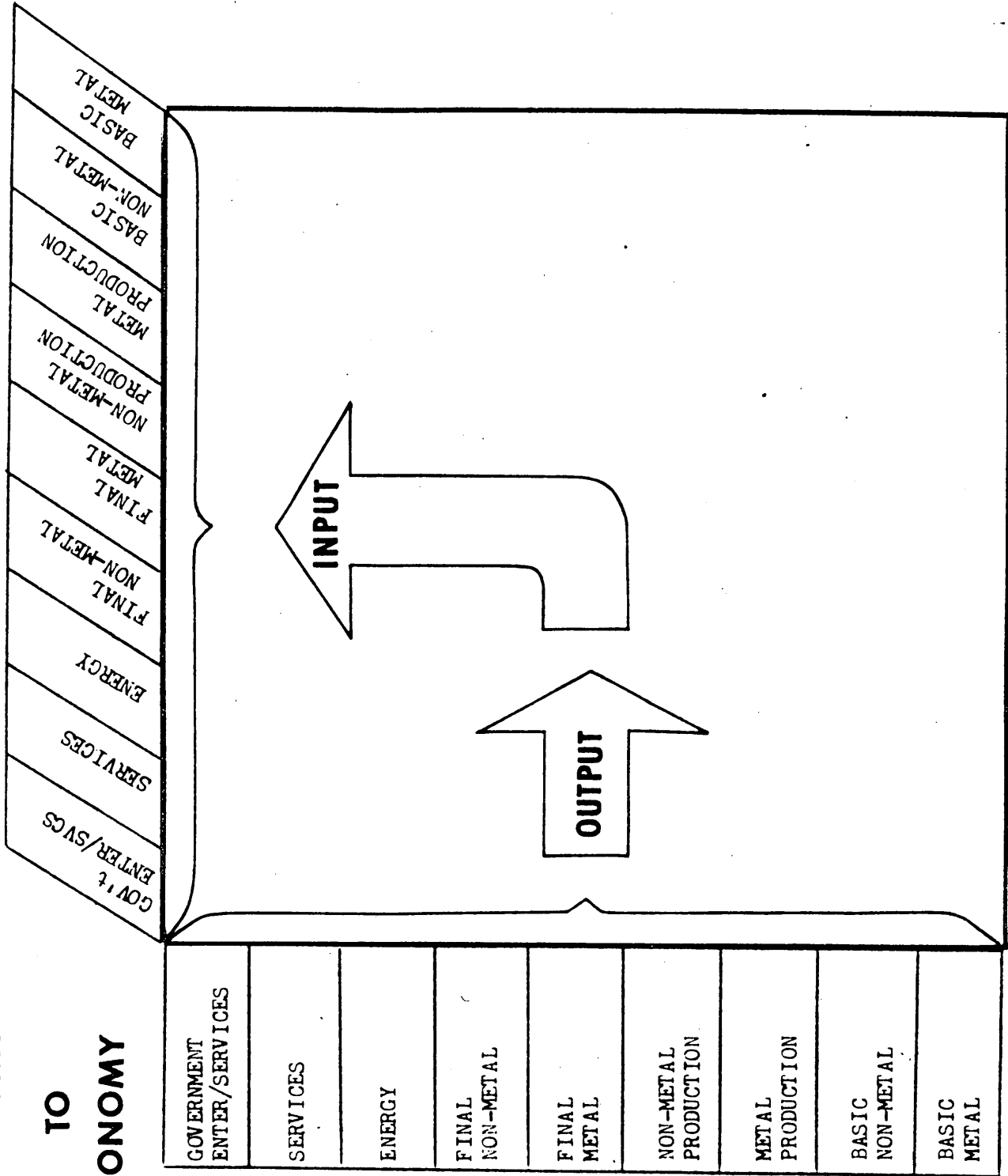
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INPUT/OUTPUT MATRIX

ECONOMY

TO

ECONOMY

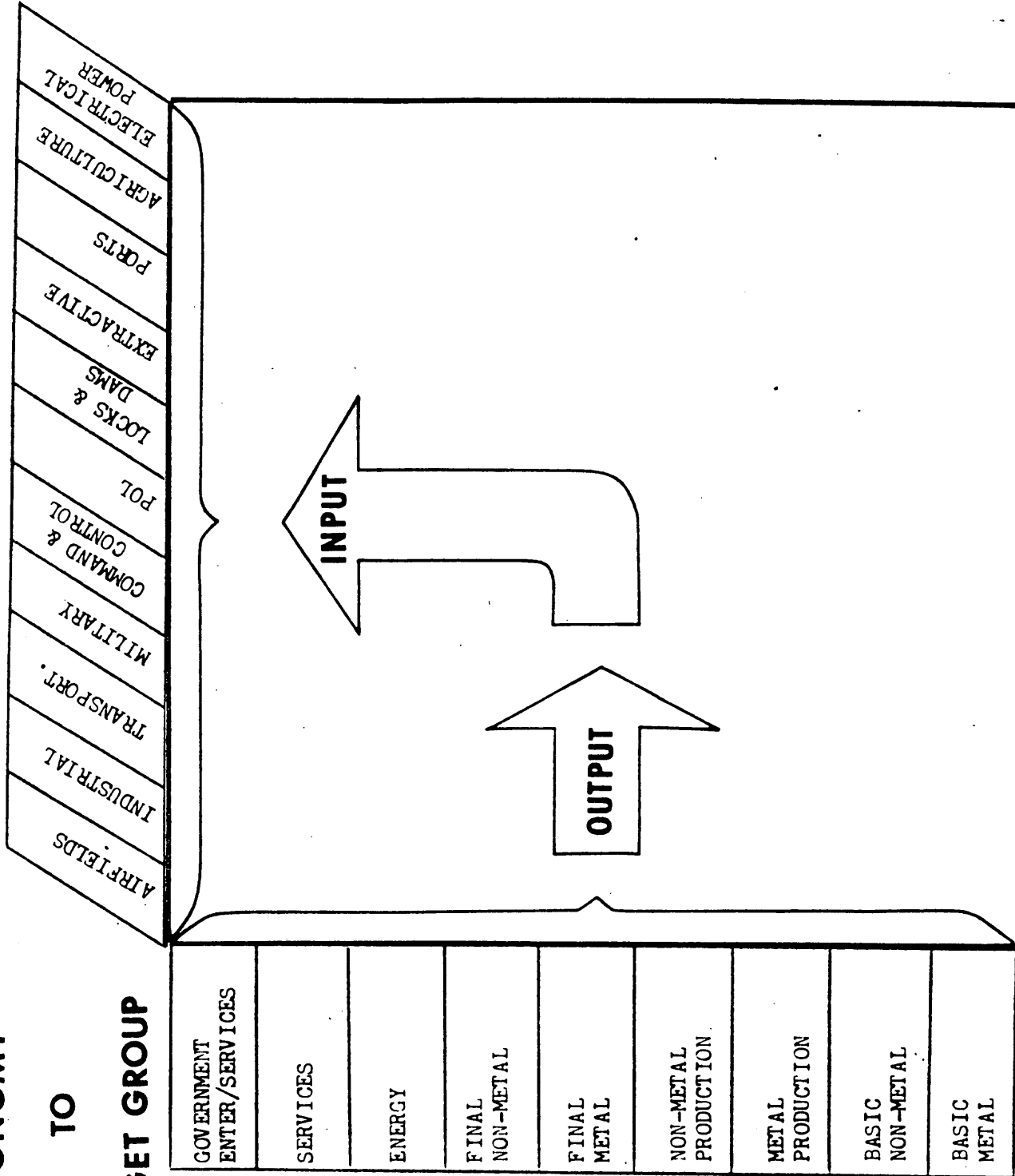


INPUT/OUTPUT MATRIX

ECONOMY

TO

TARGET GROUP

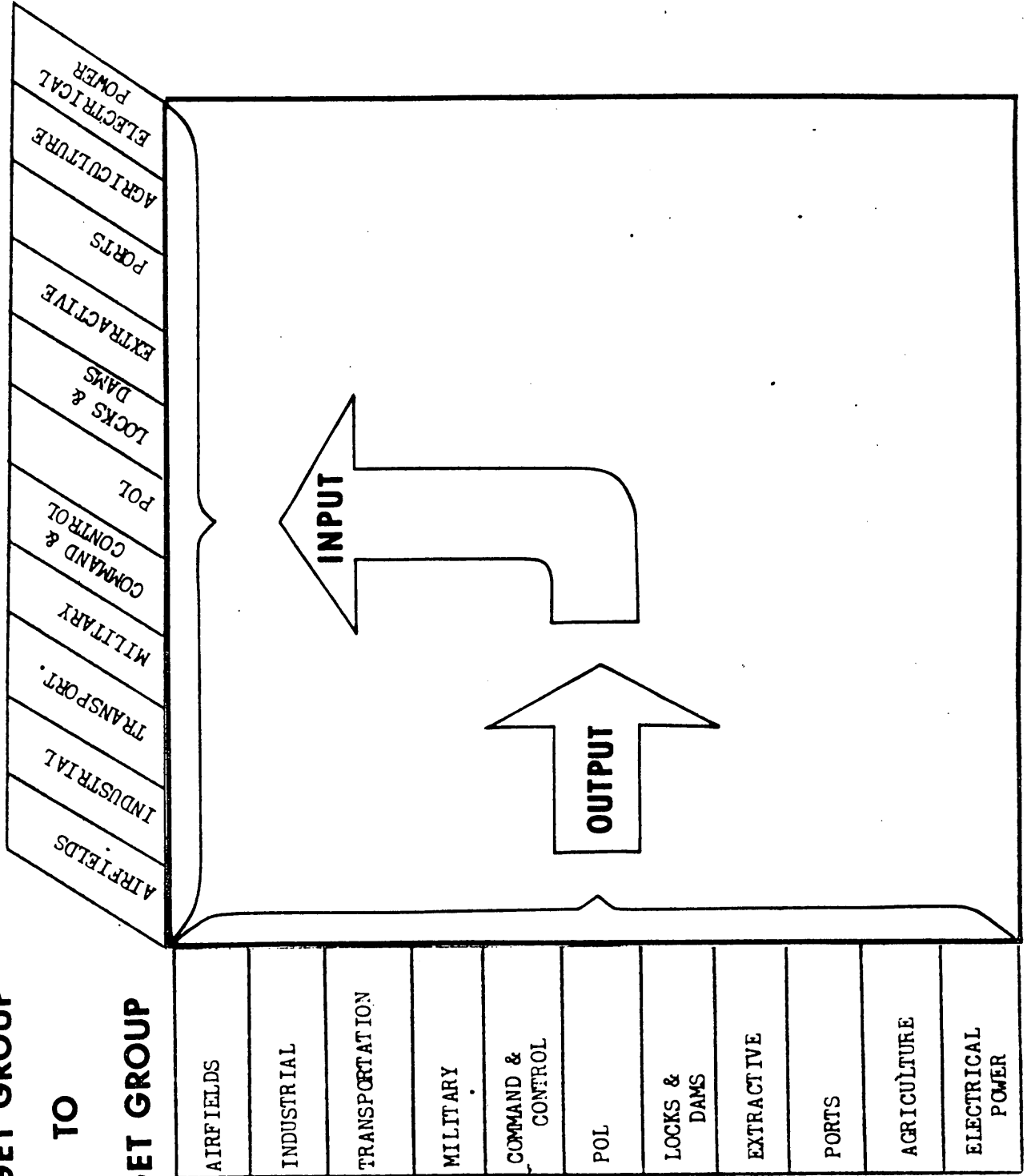


INPUT/OUTPUT MATRIX

TARGET GROUP

TO

TARGET GROUP



ECONOMY TO TARGET GROUPS

	AIRFIELDS	INDUSTRIAL	TRANSPORTATION	MILITARY	COMMAND & CONTROL	POL	LOCKS & DAMS	EXTRACTIVE & REFINING	PORTS	ELECTRIC POWER
PETROLEUM	★	★	★	★	★	★		★	★	★
THERMAL ELEC PWR	●	●	●	●	●			●	●	●
HYDRO ELEC PWR	■	■						■		■
COAL	★	★	★					★		★

	AIR-FIELDS	INDUSTRIAL	TRANSPORTATION	MILITARY
★ AIRCRAFT				
★ AIRCRAFT SUPPORT				
● CHEMICAL				
★ IRON AND STEEL				
★ MACHINE TOOL				
● CEMENT				
● TEXTILES				
● RUBBER				
★ ● OTHER INDUSTRIES				
★ RAIL				
★ WATER				
★ ROAD				
● MUNITIONS STORAGE				
● BARRACKS				
● SUPPLY				
● TRAINING				

LEGEND
 YELLOW ★ GREEN ● BLUE ■ RED ★

	COMMAND & CONTROL	EXTRACTIVE & REFINING	PORTS	ELECTRIC POWER
● SAM				
● AAA				
● RADAR				
● COMMAND POST				
★ POL				
LOCKS & DAMS				
CLAY				
LIMESTONE				
PHOSPHATES				
★ COAL				
SALT				
★ IRON				
● CHROMITE				
■ TIN				
● ZINC				
● PORTS				
★ PORTABLE				
■ ★ FIXED				

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RELATIONSHIP OF TARGET GROUP TO TARGET GROUP

	AIRFIELDS	INDUSTRIAL	TRANSPORTATION	MILITARY	COMMAND & CONTROL	POL	LOCKS & DAMS	EXTRACTIVE	PORTS	ELECTRIC POWER
AIRFIELDS										
INDUSTRIAL										
TRANSPORTATION										
MILITARY										
COMMAND & CONTROL										
POL	*	*	*	*	*	*	*	*	*	*
LOCKS & DAMS										
EXTRACTIVE	COAL	*							*	
	APATITE								*	
	CHROMITE									
	OTHER									
PORTS										
ELEC. POWER	PORTABLE	●	●	●	●	●	●	●	●	●
	FIXED	●	●	●	●	●	●	●	●	●

LEGEND
 * YELLOW
 ★ RED
 ● GREEN

ENERGY CATEGORY ANALYSIS

PETROLEUM:

- CONTRIBUTES SIGNIFICANTLY TO ECONOMIC AND MILITARY OPERATIONS
- A SOURCE OF ENERGY TO DRIVE PORTABLE POWER PLANTS.
- IS 100% IMPORTED.
- STORAGE POINTS ARE TOO WIDELY DISPERSED TO LOCATE AND DESTROY WITH AIR POWER.

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ENERGY CATEGORY ANALYSIS

THERMAL ELECTRIC POWER (FIXED/PORTABLE)

- CONTRIBUTES SIGNIFICANTLY TO ECONOMIC AND MILITARY OPERATIONS
- FIXED POWER PLANTS, (COAL FIRED) PRODUCE 89% OF THE NVN NATIONAL CAPACITY
- DESTRUCTION OF FIXED POWER PLANTS WOULD NEGATE THE IMPORTANCE OF COAL AS A TARGET SYSTEM WITHIN THE ENERGY CATEGORY.
- FIXED POWER PLANTS CAN BE EFFICIENTLY AND EFFECTIVELY ATTACKED WITH AIR POWER.
- PORTABLE POWER PLANTS ARE TOO NUMEROUS AND WIDELY DISPERSED TO LOCATE AND DESTROY WITH AIR POWER AND MUST BE NEUTRALIZED THROUGH DENIAL OF POL.
- THE ENTIRE FIXED POWER SYSTEM MUST BE ATTACKED.
- USE OF THE BACK-UP SYSTEM, PORTABLE POWER, MUST BE DENIED TO THE ENEMY.

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ENERGY CATEGORY ANALYSIS

HYDRO ELECTRIC POWER:

- **TWO PLANTS EXIST; COLLECTIVELY THEY PRODUCE ONLY 2.4% OF THE TOTAL NATIONAL ELECTRIC ENERGY CAPACITY.**
- **BOTH PLANTS CAN BE EFFICIENTLY AND EFFECTIVELY ATTACKED WITH AIR POWER.**

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ENERGY CATEGORY ANALYSIS

COAL:

- IS DOMESTICALLY PRODUCED IN SUFFICIENT QUANTITIES TO SATISFY NVN REQUIREMENTS AS A SOURCE OF ENERGY TO DRIVE THERMAL POWER PLANTS AND TO PROVIDE AN EXPORT COMMODITY.
- SOURCES, (MINES) ARE TOO NUMEROUS AND DISPERSED TO CONSTITUTE A SYSTEM FOR ATTACK BY AIR POWER .
- IMPORTANCE REDUCED AS AN ENERGY SOURCE IF "END USE" FACILITIES, FOR EXAMPLE, FIXED THERMAL POWER PLANTS, ARE DESTROYED.

ENERGY CATEGORY ANALYSIS SUMMARY

- MAXIMUM IMPACT CAN ONLY BE ACHIEVED IF BOTH THE FOLLOWING ACTIONS ARE TAKEN:
 - a. DESTRUCTION OF FIXED POWER PLANTS.
 - b. ELIMINATION OF POL IMPORTS.

TARGET TO TARGET

ELEC PWR AIR FIELD	ELEC PWR FLDS AIRCRAFT A/C SUPPORT IRON & STEEL CHEMICAL MUN. STORAGE MAINT. TOOL	INDUSTRIAL RAIL OTHER IND.	TRANS SUPPLY	MILITARY AAA AAA S.A.M. TRAINING	COMMAND CONTROL CON. POST CON. POST CLAY & DAMS LIMESTONE PHOSPHATES COAL SALT IRON CHROMITE TIN ZINC	EXTRACTIVE SALT COAL PHOSPHATES LIMESTONE CLAY & DAMS CON. POST CON. POST S.A.M. AAA AAA
	PORTABLE					
	FIXED					
	AIRCRAFT					
	A/C SUPPORT					
INDUSTRIAL	CHEMICAL					
	IRON & STEEL					
	MACHINE TOOL					
	CEMENT					
	TEXTILES					
	RUBBER					
	OTHER INDUSTRY					
TRANS	WATER					
	ROAD					
MILITARY	MUN. STORAGE					
	BARRACKS					
	SUPPLY					
COMMAND & CONTROL	TRAINING					
	SAM					
	AAA					
	RADAR					
	COMMAND POST					
	POL					
	LOCKS & DAMS					
EXTRACTIVE	CLAY					
	LIMESTONE					
	PHOSPHATES					
	COAL					
	SALT					
	IRON					
	CHROMITE					
	TIN					
	ZINC					
	PORTS					

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CHARACTER OF THE NVN ECONOMY

- BASED PRIMARILY ON AGRICULTURE WHICH:
 - EMPLOYS 50% OF THE LABOR FORCE
 - PROVIDES 45% OF THE GNP
- FACTORY INDUSTRY PROVIDES 10-15% OF GNP
- HANDICRAFT/COTTAGE INDUSTRY PROVIDES 10% OF GNP
- TRANSPORTATION, COMMERCE AND SERVICES GENERATE 35% OF GNP
- HIGHLY SUBSIDIZED AND DEPENDENT UPON IMPORTS

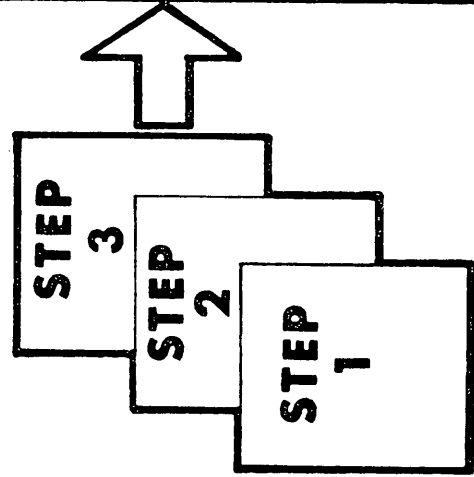
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TGT SELECTION

TGT to TGT		3	12	8	7	9	13		
		PORTS	AIRFIELDS	INDUSTRIAL	TRANSP.	EXTRACTIVE	LOCKS/DAMS	POL	MILITARY
PORTS	3								
ELECTRIC POWER	12								
COMMAND & CONTROL	8								
AIRFIELDS	7								
INDUSTRIAL	9								
TRANSP.	13								
TOTAL	52								



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AIR CAMPAIGN

DESIGNATED

TARGET

LIST

SLIDE 20

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~~TOP SECRET~~

DESIGNATED TARGET LIST

COMMAND & CONTROL TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Hanoi ADD	19	1. Eliminates Primary Control Facility	Sorties 89 Aircraft Attrition 1.2	1. GCI SITES 2. EW Sites 3. SAM Battalions 4. Airfields W/Air Defense Facilities 5. AAA Radar 6. Hanoi MND 7. Vulnerability of All Targets Increased Civilian Casualties 27
2. Hanoi Intl Radcom XMTR (JCS 66)	4	2. Destroys Vital Transmitter		
3. Hanoi HF Telecom Site (JCS 66. 1)	26	3. Destroys Vital Command Transmitter		
4. Hanoi Intl Radcom RCVR (JCS 67)	12	4. Destroys Vital Radio Receiver		
5. Vinh Filter Center	7	5. Neutralizes Control Facility		
6. Nam Din Filter Center	7	6. Neutralizes Control Facility		
7. Filter Center	7	7. Neutralizes Control Facility		
8. Filter Center	7	8. Neutralizes Control Facility		

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DESIGNATED TARGET LIST

AIRFIELD TARGET GROUP

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Phuc Yen	40			1. Increases Target Vulnerability
2. Kep	21		Sorties 160	2. Hanoi ADD
3. Cat Bi	34			3. Filter Centers
4. Kien An	33	Neutralizes All Major Tactical and Transport Airfields Except Gia Lam	Attrition Aircraft 3.1	4. GCI Radar
5. Bac Ma	8			5. EW Radar
6. Kep Ha	12			6. Hanoi MND
7. Hoa Loc	12			Civilian Casualties 17

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~~TOP SECRET~~



DESIGNATED TARGET LIST

PORT TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Haiphong	225/29	1. Affects 80% of Maritime Shipping	Sorties 995 Bombing 50 Mining	1. Airfields 2. Viet Tri Chemical 3. Thai Nguyen Iron & Steel 4. Hanoi Machine Tool 5. Haiphong Cement 6. Haiphong Phosphate 7. Phu Tho Chemical 8. Bac Giang Chemical 9. Nam Ninh Textile 10. POL 11. Iron, Phosphate, Coal Mines 12. Military Munitions 13. Filter Centers 14. GCI Sites 15. EW Sites 16. SAM Battalions 17. AAA Units
2. Hon Gai	93/15	2. Eliminates Export of Coal and Alternate Import Facilities		
3. Cam Pha	77/6			
				Civilian Casualties 432

~~SECRET~~

DESIGNATED TARGET LIST

ELECTRICAL TARGET SYSTEM

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Hanoi XFMR	29	1. Destroys Main Switching Station		1. Haiphong Port 2. Hon Gai Port 3. Cam Pha Port 4. Airfields 5. Viet Tri Chemical 6. Thai Nguyen Iron & Steel 7. Hanoi Machine Tool 8. Haiphong Cement 9. Haiphong Phosphate 10. Phu Tho Chemical 11. Bac Giang Chemical 12. Hanoi Rubber 13. Phu My Zinc 14. Cu Van Iron Ore 15. Lang Nhon Apatite Mine 16. Nang Danh Coal Mine 17. Tin Tuc Tin Smelter 18. Military Installations 19. Command & Control 20. Transportation Targets
2. Hanoi TPP	28		Sorties 276	
3. Viet Tri TPP	26			
4. Hon Gai TPP	24			
5. Bac Giang TPP	28			
6. Thai Nguyen TPP	26			
7. Haiphong W TPP	26		Aircraft Attrition 5	
8. Haiphong E TPP	23	2. Destroys 90.7% of Total Capacity		
9. Phu Ly TPP	23			
10. Lao Cai TPP	25			
11. Ta Sa Na Ngan HPP	9			
12. Ta Sa HPP	9			

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~~SECRET~~

Civilian Casualties
139

TOP SECRET

DESIGNATED TARGET LIST

INDUSTRIAL TARGET GROUP

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
1. Viet Tri Chemical	62	1. Neutralizes 58% Chemical Production	Sorties 514 Aircraft Attrition 8	1. Haiphong Port
2. Thai Nguyen Iron & Steel	121	2. Neutralizes Iron & Steel Production		2. Hon Gai Port
3. Hanoi Machine Tool	57	3. Neutralizes Machine Tool Production		3. Cam Pha Port
4. Haiphong Cement	23	4. Neutralizes Cement Production		4. Ben Thuy Port
5. Haiphong Phosphate	8	5. Neutralizes Fertilizer Production		5. Phuc Loi Port
6. Phu Tho Chemical	98	6. Neutralizes Most Modern Chemical Plant		6. Port Wallut
7. Bac Giang Chemical	88	7. Neutralizes Major Chemical Plant		7. Airfields
8. Nam Dinh Textile	31	8. Neutralizes Largest Textile Production Facility		8. POL
9. Hanoi Rubber	26	9. Neutralizes Largest Rubber Production Facility		9. Military Installations
				10. SAM Support Facility
				11. Transportation
				Civilian Casualties 353

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TOP

DESIGNATED TARGET LIST

TRANSPORTATION

(LOC's)

TARGETS	SORTIES	DIRECT EFFECT	COST	COLLATERAL EFFECT
Road Bridges (8)	227	Impedes Logistic Movement into North Vietnam	Sorties 311 Aircraft Attrition 3.5	<ol style="list-style-type: none"> 1. Ports 2. Airfields 3. Nav Locks & Dams 4. Industrial Targets 5. POL Targets 6. Extractive Targets 7. Military Installations 8. Civilian Casualties 63
Rail Bridges (2)	48			
Waterways (3)	36			

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RECOMMENDED CAMPAIGN SUMMARY

TARGETS	52
STRIKE SORTIES	1795
AIRCRAFT ATTRITION	29
CIVILIAN CASUALTIES	1031

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RESTRIKE REQUIREMENTS

<u>SYSTEM</u>	<u>NUMBER TARGETS</u>	<u>TIME INTERVAL FOR RESTRIKE</u>	<u>RESTRIKE SORTIE REQUIREMENT</u>
ELECTRICAL POWER (FIXED)	12	20 MONTHS	276
INDUSTRIAL	9	12 MONTHS	514
AIRFIELDS	7	10 DAYS	160
COMMAND & CONTROL HANOI ADD (1) COMMUNICATIONS (7)	8	10 DAYS 30 DAYS	19 70
PORTS	3		
BOMBING		20 DAYS	395
MINING		10 DAYS	50
TRANSPORTATION ROAD/RAIL BRIDGES (10) WATERWAYS (3)	13	7 DAYS 10 DAYS	275 36
TOTAL	52		

30 DAY SORTIE REQUIREMENT	
FIXED TARGETS	1200
LOCs	1450
TOTAL	2650

TOTAL TARGET

SLIDE 27A

941103308

RECOMMENDED AIR CAMPAIGN (52 TARGETS)

★ JCS MAP(2339/25-

★ CINCPAC 66/67

■ AIRSTAFF LIST

□ JCS PROPOSED

● JCS EXECUTE

▲ STRUCK

ELECTRIC POWER

- ▲ ★ HON GAI TPP
- ▲ ★ THAI NGUYEN TPP
- ▲ ★ VIET TRI TPP
- ▲ ★ BAC GIANG TPP
- ▲ ★ HANOI TRANSFORMER STA
- ▲ ★ HAIPHONG - WEST TPP
- ▲ ★ PHU LY TPP
- ★ HANOI TPP
- ★ HAIPHONG - EAST TPP
- ★ LAO CAI TPP
- ★ TA SA HPP
- ★ TA SA NA NGAN HPP

TRANSPORTATION

- HIGHWAY BRIDGES - 8
- RAILROAD BRIDGES - 2
- WATERWAYS - 3

PORTS/NAVAL BASES

- ★ CAM PHA PORT
- ★ HON GAI PORT
- ★ HAIPHONG PORT

COMMAND & CONTROL

- ★ HANOI INTL RADIO TRANSMITTER
- ★ HANOI HF TELECON
- ★ HANOI INTL RADIO RECEIVER
- ★ HANOI MILITARY HQ
- ★ FILTER CENTERS - 4

AIRFIELDS

- ★ HANOI BAC MAI
- ★ HOA LAC
- ★ PHUC YEN
- ★ KEP
- ★ HAIPHONG CAT BI
- ★ HAIPHONG KIEN AN
- ★ KEP HA

INDUSTRIAL

- ★ VIET TRI CHEMICAL
- ★ HAIPHONG PHOSPHATE
- ★ BAC GIANG CHEMICAL
- ★ PHU THO CHEMICAL
- ★ THAI NGUYEN STEEL
- ★ HAIPHONG CEMENT PLANT
- ★ HANOI MACHINE TOOL
- ★ NAM DINH TEXTILE
- ★ HANOI RUBBER

041103-309

OBJECTIVES

- TO RAISE AND SUSTAIN THE MORALE OF THE SOUTH VIETNAMESE PEOPLE
- TO MAKE THE NORTH VIETNAMESE PAY A PRICE FOR CONTINUING THEIR AGGRESSION AGAINST SOUTH VIETNAM
- TO REDUCE AND MAKE MORE COSTLY THE INFILTRATION OF MEN AND SUPPLIES FROM NVN TO SVN

CONCLUSIONS

1. THE ENEMY HAS DEMONSTRATED THE ABILITY TO ACCOMMODATE TO THE GRADUAL INCREASE OF PRESSURES AND RESULTANT PREDICTABLE PATTERNS WHICH FOLLOW THE PRESENT METHOD OF TARGET AUTHORIZATION
2. IMPORT OF MATERIALS INTO NVN TO SUPPORT MILITARY REQUIREMENTS IN BOTH NVN AND SVN CONTINUES TO INCREASE
3. DENIAL OF IMPORTS TO NVN, AS RECOMMENDED BY THE JCS AND INDIVIDUAL SERVICES AS A REQUIREMENT FOR SUCCESSFUL CONCLUSION OF THE NVN CONFLICT, IS VALIDATED BY ECONOMIC TARGETING
4. TO SIGNIFICANTLY ADVANCE U. S. NATIONAL OBJECTIVES, NVN TARGET SYSTEMS MUST BE BROUGHT UNDER ATTACK IN AN INTEGRATED AND SYSTEMIC AIR CAMPAIGN
5. AN INTEGRATED STRIKE AND INTERDICTION PLAN IS REQUIRED

RECOMMENDATIONS

1. AUTHORIZE CINCPAC TO IMPLEMENT
2. MODIFY EXISTING CONSTRAINTS TO PERMIT IMPLEMENTATION

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