

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE 1400 DEFENSE PENTAGON WASHINGTON, DC 20301-1400

3 1 MAY 1996

Ref: 93-F-1875

Mr. Hans M. Kristensen GREENPEACE 1436 U Street NW Washington, D. C. 20009

Dear Mr. Kristensen:

This letter and documents respond to your August 16, 1993, Freedom of Information Act(FOIA) request received in this Directorate on August 20, 1993.

Your request and responsive documents were referred to the Defense Intelligence Agency (DIA) for a direct response to you on November 16, 1994. DIA has reviewed and returned the documents to this Directorate for a response to you.

The assessable fees are waived in this instance.

Sincerely,

A. H. Passarella

Director

Freedom of Information and Security Review

Enclosures: As stated





CM-2650-67

1-2

MEMORANDUM FOR THE SECRETARY OF DEFENSE

Subject: ROLLING THUNDER Targeting (U)

- 1. (C) The Basic Encyclopedia of military targets in North Vietnam provides the common basic targeting data for development of an operating target list.
- 2. (8) The operating target list, known as the ROLLING THUNDER Target List (RTTL), is by no means all-inclusive, but rather it represents a current group of targets selected for strike, restrike, proposal for approval to strike, or requiring monitoring for additional intelligence collection regarding value, regeneration, or reconstitution. The targets selected are determined by intelligence data made available from all sources and from information and judgments provided by CINCPAC, his component commanders, their subordinate commanders, DIA, or the Joint Staff.
- THUNDER Target List. In May 1967, CINCPAC automated his data base that previously had been maintained manually. A printou of this data has been updated weekly to reflect changes occurring as a result of the targeting process. Recently, the procedure was revised to provide for a bi-weekly printout, with interim changes accomplished by message to all concerned.
- 4. (2) CINCPAC separates targets selected from the common data base into four basic categories by status, as follows:
 - a. Authorized priority targets 2 a listing of validates targets that can be struck without additional approval;
 - b. Unauthorized priority targets validated targets require special approval from higher authority. These targets constitute CINCPAC's recommendations for approval and are considered for inclusion in the ROILING THUNDER proposal.

3 - 8/8 6 m. hugh 4 - 8h 5 - Chron 6 . Em

Openarades of 12 contracts at 12 contracts at

DECLASSIFIED BY AUTHORITY OF

11 APR 96 93-F-18

ITE CASE

Doc 1

CONTROLLER COCUMENT THE COLDER DESTRUCTION REQUIRED c. Additional targets under consideration for inclusion

3:

- in the first or second category;

 d. Unserviceable or inactive targets previously in category one, two, or three May be returned to a higher
- category one, two, or three. May be letuiled to a light category, if warranted.

 5. (8) Targets move continuously among, from, and into the four basic categories.
 - a. New intelligence information may upgrade or degrade the status of targets;
 - b. A newly discovered target might enter the list in any of the first three categories;
 - c. Strike damage on one target may affect the status of others. For example, destruction of a primary bridge might elevate the importance of an alternate route or bypass crossing;
 - d. Reconstitution of targets by the NVN tends to move targets into higher categories;
 - e. Cumulative damage accrued within a target system tendto upgrade the significance of less important elements of that system. For example, small capacity POL storage areas transshipment points, power plants, and secondary and terms. ary LOC targets assume added importance when primary elem... of the systems are lestroyed. Such targets enter the line one of the first unree categories, regardless of capaciti or quantities;
 - r. Targets destroyed, abandoned, or dismantled with no evidence of reconstitution or regeneration are removed from the current list.
 - 6. (e) As the current printout of the ROLLING THUNDER to list is received, the Joint Staff prepares a spread sheet or only the unauthorized priority targets requiring approval of higher authority with an assessment of their appropriateness for recommendation in ROLLING THUNDER program packages.

when the transported sheat was prepared with an accidence of Saugust 1967. From the ROLLING THUNDER Target Hist, europation that date, there were 427 targets, of which lil when unditherized. The Joint Chiefs of Staff considered 70 these targets to be appropriated for recommendation and 41 targets should be deferred at that it is a second of the secon

- 8. (2) Since 9 August 1967, there has been a weekly revision to the ROLLING THURDER larget List. The statistical surmary of targets provided by memorandum on 11 September 1967, reflected actual of 461 targets on the current target list as of 6.5 September 1967.
 - 9. (2) Inclosure A is a statistical summary of changes petween the 9 August and the 6 September 1967 target list. Inclosure B reflects the targets added to the original 1969 August 1967 target list, and the reason for the addition to the current operating list. Inclosure C reflects the targets deleted since 9 August 1967, and the reasons for the deletion.
- 10. (2) As additional information, Enclosure D identifies the original 70 tangets from the 9 August 1967 operating little and the changes that have occurred to these tangets that have detail there are now 30 of the criginal 70 tangets that have not been authorized for strike. These 30 tangets, in addition to other tangets, are on the current unauthorized priority little tangets, of which 65 are assessed by the Joint Staff value tangets under current operational concepts. Only tanget value tangets under current operational concepts. Only tanget contained in the proposed FOILLING THUNDER package are recommended by the Just for your approvaling Twenty-eight of these tangets are contained in ROLLING THUNDER 57 Addendum IV that is ready, for your consideration.

OFN P. McCONNELL
Acting Chairman
Joint Chiefs of Staff

SUMMARY OF CHANGES

COMPARISON BETWEEN 9 AUGUST 1967 AND CURRENT (6 SEPTEMBER 1967) NVN OPERATING TARGET LISTS

Targets on 9 August 1967 list ----CHANGES TO THE NVN OPERATING TARGET LIST

		ADDED	DELETED	
Authorized Priority	Targets	11	0	5 2,
Unauthorized Priorit	1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	25	0	
Additional Targets U		n O	0	
Unserviceable or Ina	ctive Targets	-		
Total Added (see	list at Encl B)	36		+36
Total Deleted (se	ae list at Encl C)		2	
Total Deleted (Se			٠,	- 2
				461
Targets on 6 Septem	ber 1967 list			401

Enclosure A

LIST OF ADDED TARGETS (26)

TARGETS ON CURRENT (6 September 1967) NVN OFECATING TARGET LIST THAT WERE HOT ON THE 9 AUGUST 1957 LIST

	100 /00	Harris Commence	RIVADON	
	JC3/RR TGT #	IME	RVADOT	اره مخ موجد از کار در در
	615-0610	Cam Pha FOL	Element of JCC #60	1.5
	616-2004	Halphong Haval Bano	Element of JCJ MA	
		TAG CAL HR Yd	Increased significance based on receive	to area or
	616-0039	approval of Bullon s	increased significance based on emphasis	
•		to isolate limini.	Ingreased significance based on emphasis	
	4.1	Dap Cau RR Spur to inclute Hanoi.		
	616-0054		the same also commented who we use for missile	:
	616-0156	Haiphons Bka Se Ca		.
	616-0257		A Section and A man has presented the	
	616-0265	turne Vano RR Pr	Fair, Edward and Talent	***
	615-0322	approval of Buffer Kinh no BR Yd	Modelle Processis	25.7
	616-0524	Lang Lau RR Pr	On recently completed dual gage ME rail line.	
	616-0671	Sultable for WALLEY	Element of JCS /79	
	. •		Annual Market	
	616-0672		o Prement of JCS 770	
	616-0673		Rewly designatmi target on HE rail line.	
	61600750) Yen Vien RH Yd H Increased signific		1
	616-0901		1010	114 A
•	616-0922	Manol Machinery GI	Recently volidated as significant small	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	616-103	machine tool plant 3 Haiphong Warehouse	Weekle thousand	4.3
	a cere	maior warehouse.	Recent intelligence shows increased une by	2
ŗ	616-182	AAA unita. Increa	aned nignificance for defense of strike force. Increased nignificance based on recent	A-104
	. •	approval of Buffer	r targets. Increased cignificance based on recent	
		approval of Buller	Ament of JCS 770	
		38 " Halphons Shipyard		12.5
	•	10 Haiphong Shippard	On recontly completed dual gage HB rall line	•
		32 Dong Muc RR Br	tant dance haned on recent	
	616-337	70 Hao Loan Boat Yd		
	616-33	73 liaiphong shipyara	VIIII A THE PARTY OF THE PARTY	
	616-34	construction. 24 Tien Hong POL Sto	or S Recent photography shows principal for	
	616-35	trongablyment Pol	no.	
		to include Haipho	one.	
	616-35	Intellinence and	water are a countries of Alternate Talk	
	616-35		the maintain in the second sec	
	63.6-35	550 lite Hong POL Sto transhipment po	or Recent photography brown printiples pint. Rewly discovered target on bypass section	
	616-3	757 Lang bon his 10 "		•
	616-3	759 Ha Dong Boat Yd	Newly discovered target engaged in ammitten. Recent intelligence shows yard now converti	lne
	616-3	erat constructs	Yard Recent intelligence shows yere now	
•	616-3		ank Fab. Howly discovered target engaged in	n
	616-3	. TOU CLAM FOREST	The state of the s	
	, 010-3	intelligence she	owing increased use of water transport.	

Link, to Link

Engl nure "

TARGETS ON 9 AUGUST 1967 NVM
OPERATING TARGET LIST THAT ARE NOT
ON THE CUMULITY (L. September 1967) LIST

Combined with 616-3241

616-0912 Kinh Ho Voh Repair 616-2196 Hanoi RR Br

Bypass; combined with JCS #13

0 m

	TOL	CHEL		
			LIMAT OU	itim n
٠	. -		ENCTOR	UNK U A CONTROL ON THE CONTROL OF TH
::	. 			
-			STATES OF UNAUTHORIZED TARG	ETTI RECCIONENDED BY JCS ON
	3.5	A.	O WHERE LODD HAN OLD	
	.* .	•	* *************************************	
	TITE !		HAMM	BTATUS
7.4		•		
•	18.26		Lang Con KR Br NW	Auth 12 Car RT 57 17 Aug
	18.5		Long Klup Hwy Br - Fill A	Author Transfer Transfer August 1988
٠,	18.69		On Hwy Pr	Author RT 57 17 Aug st
	18.67		Chieng Chang Bry Br	Auth The HT 57 17 Aug
	18.71 48	1	loc linh llwy Hr	Authorities RT 57 5 Sop
	62		Helphons Pol.	Auth Rf 57 5 Hep
	63.11	1	Van Dien Supply Ppo (1986) Van Dien Veh Ppo (1986)	Auth RT 57 19 Aug Auth RT 57 17 Aug
<u>;</u> ,•	ĠŔ	•	Com His Port	
٠.	69		Use Gal Port	Auth RT 57 5 Sep
y .	82.24	L	Hanal Transformer	Auth RT 57 17 Aug
	616-6		Halphony Ric/Hwy Br	Auth KT 57 30 Aug
		DU35 ··	That the fley br	Auth west Rr 57 17 Aug
1.	616-6	0036	Cho Bring Hwy Br H	Authman PT 57 17 Aug
÷	616-6	00413	the ling livy for the Constant	Z Auth RT 57 30 Aug
 ! •	616-6		Helphong KH Yd W	Auth NT 57 30 Aug
	610-6	OUNCE	Halphong llwy Br	Auth RT 57 30 Aug
٠.		0070	Halphong Hwy Br SSB	Auth RT 57 30 Aug
	010-0		Kien An livy Br	Authority RT 57 30 Aug
Ġ,	610-0		liaiphong Warehouse W 回真真體	Auth RT 57 5 Sep
	(110-		Hanoi Stor Gin 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Author Rr 57 5 Uep
	910-6		Bon Muc Ukn/Ator	Authy RT 57 17 Aug
7	610-		Hanol Stor Bac Mul	Auth RT 57' 5 Sep
	016-		Thu Lo RR Br	Auth RT 57 5 Sep
٠,٠	616-6		Einh Ho Ven Maint	Auth
	616-		Ne Sat Ilwy Rr	Authorities Rr 57 17 Aug
	616-		Hanol Veh Duo Glap NW	Auth RT 57 17 Aug
	610-		Rinn Ho Veh Repair Hanol Voh Dpo	Authorities RT 57 17 Aug Authorities RT 57 5 Sop
٠,,,	610-			Auth Rr.57 5 Sep
		M2152.	Loi Dong Transuhip E	Auth- FT 57 5 Sep (Mow 616-3749)
	3		Gla Lum AF	Unauth Proposed RT 57 ADD IV
	6		Phue You AP	Unnuth Proposed RT 57 AUD IV
٠.	7	•	Bac Mai Al	Unauth 1988 Proposed RT 57 ADD 1V
Ţ.,	8	•	Cut HI AF	Millinguth Propused RT 57 ADD TV
Ġ,	21		Hanot RR Yal/Shops	Unauth
'n	58.		Henol Supply Dpo S	Unauth Proposed RT 57 ADD TV
	59		Hanot Supply Opo N	Unnuth and Proposed DT ST ADD TV
	.70 🗀		Halphong Port	Unauth Elements in Proposed
٠.٠				RT 5/ ADD IV
		იაკი	Halphong RR Yd	Minnith Proposed RT 57 ADD IV
. *	616-		Tang Sen RR Sliting N. 🗿 🕻 🎮	Though the state of the state o
		0300	Hanol hubber Prod	Unauth Company
		0268	Hanol Veh Haint Dpo	Unauth
		0/133	Hunol Engineering	Unauth the section of
		0773	Hulphong Concrete Prod div	Unauth
		0779	Van blen Bettery	linauth and a second se
		0780	Halphong Buttery	linauth was a second of the se
	616-	5301 1394	Hanol Pol,	Unauth The Proposed RT 57 ADD TV
		2309	Halakana Shilmanad Look.	Unauth Research Proposed RT 57 ADD IV
		2344	Halphong Shipyard Lach Halphong Shipyard Thuong	Unauth (47,774) is Proposed RT 57 ADD IV Unauth (47, 17, 12, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17
:		2357	Hand Ven ling itten	Unauth Proposed RT 57 ADD IV Unauth Proposed RT 57 ADD IV Unauth Proposed RT 57 ADD IV Unauth
٠.		2431	Van filan RK Giding	linguith was the Proposed to 67 and 17
		2655	Hanol Congrata Prod Cham	Though an Cost of the Cost of
		2656	Hand Congrete Prod	Honore by the state of the stat
		2705	Hanal Van Ronale Bach Mal	Branth
		2706	Hanol Veh Ronnie SW	Unauth to Promoned BT ET Ann Tu
		2830	Truong Xn POL	Inauthous And Albania and the state of the s
•	616-	2869	Halphong POL Tank Fab	Unauth
•	616.	3337	Inu Tot POL	Unauth 2
7	616.	3372	Hanot Shipyard Thuong	Unauth #5 55 5 566
	615-	3375	Lac Ha Hwy Br	Not Recommend Better Interdiction noint
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	available
	615.	0009	Halphong Hwy Br	Not Roson Williamyiconble
,	616-	1570	Halphong Transformer (1.33)	ethidaen seeman innativo
		1089	Co Munit Rit Chimaway	Not Recom
٠	616•	2299	Butter So POL	Not Recommend Innerticeable Not Recommend Innerticeable
	610-	.2332	limol Pot, That	Not Recom Will Under constants ton
	∵616-	-2603 -	Phu Dong Pol.	Not Recom Under consideration
٠,		-2839	Co liture Vion POL	Not Recommend Innerviceable Not Recommend Under consideration
	616-	5140	Hanol RR Br 47 - 68	
				acs #13



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

The Joint Staff

DJSM-916-64 28 May 1964

MEMORANDUM FOR THE CHAIRMAN, JOINT CHIEFS OF STAFF

Subject: Targets and Forces Study -- Air Compaign
Against ***** (U)

Against

Reference: JCS 2343/383

l. The reference contains an air strike target list of North Vietnam (NVN) and an analysis of the capabilities of execution using readily available forces.

2. Quantitative requirements for munitions have been computed for each target categorized within the subject paper. Gross requirements in South Vietnam (SVN) versus assets available as determined by the Director for Logistics are as

	Bomb 500#3P	3 AE8-MAD		
Requirement (each)	55,970 0	Bomb 750#GP r 42,048	or 975	
On Hand PACOM	3,368	40,750	3,676	
CONUS Depots	184,547	302,073	236	
Net Averago	131,945	260,025	2,937	

3. Although POL support for the air strikes does not present any major logistic problems, it should be noted that there are prepositioned commercially owned petroleum products at the air bases listed in the reference. The quantity on hand is normally that required to support CINCPAC OPLAN 32-64, Phase II for a 20-day period. Use of those stocks would degrade the capability of CINCPAC to put that plan into action. Resupply to each of the bases, therefore, would be essential. This action is planned to be accomplished by rail or road tankers. In each case, interdiction by opposing forces is possible. To insure adequate POL coverage, it would be

GROUP 1 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

1(0)2

(Revised - 30 May 1964)

Document No.

OATSD(PA)DFOISR Copy No. Case No. T.S. No.

ASSIFIED BY AUTHORITY OF

()

0

DATE

CASE #

Assets include about 180,000 substitute items loaded with "Composition B" instead of TNT.

^{2/} Quantities are prepositioned primarily as USAF war reserve materiel. Replacement of issues would be required to support other contingencies.

^{3/} The current nomenclature for the GAM-83A is AGM-12/B.

^{4/} If GAM-83A's are used, the quantities shown for 500# and 750# bombs, would be reduced by 2290 and 1665 respectively.



The Market of th

necessary for the in-country forces to provide adequate protection of these supply lines to insure delivery of products to the air bases concerned. For the type operation envisioned, there would be no problem at Clark Air Force Base.

J. W. DAVIS Rear Admiral, USN Deputy Director

Enclosure

 \bigcirc

0

Lt. Col. E.S. Goepper, USA, J-4 Action Officer, Ext. 52226

CECRET

2 (Revised - 30 May 1964)



ENCLOSURE

F-105 AIRCRAFT GROUNDING+ (URGENT ACTION TECHNICAL ONDER 1F-F-105-909)

Aircraft assigned PACON units	304
Available and serviceable in PACOM	` 18
Available and serviceable on route from COMUS	l;
TOTAL available and serviceable (at Kadena, Itazula and En Foute)	22
In work, not available	52
Hot available, not in work	90
Average man hours/atrovate inspection	352
Avorago men hours/direraft correction of discrepancies	200

- NOTES: 1. Limiting factors for placing aircraft in work are availability of acrospace ground equipment world-wide and qualified personnel.
 - 2. Already amilled inspection and correction of discrepancies may be returned to service in justifiable emergency.

T Status as of 23 May 1964

257

Enclosure

SED PET

Just 150 year



THE JOINT CHIEFS OF STAFF WASHINGTON, D. C. 20001

JCSM-460-64 30 May 1964

MEMORANDUM FOR THE SECRETARY OF DEFENSE

Subject: Air Campaign Against North Vietnam (TS)

- 1. The Joint Chiefs of Staff have conducted a study of targets in North Vietnam (NVN) that are suitable for air attack utilizing available forces to conduct the operations in the event a policy decision is made to conduct air strikes against NVN.
- 2. For the purpose of this study it. is assumed that the over-all purpose of the air campaign is to cause the Democratic Republic of Vietnam (DRV) to desist from supporting the Pathet Lao (PL) and Viet Cong (VC) and to reduce the capability of that Government from renewing any such support in the future.
- 3. For this purpose, three categories of targets have been developed. Target lists for each category, with a target analysis prepared by the Defense Intelligence Agency, are attached as Appendices A, B, and C hereto. These categories furnish options for attack objectives and provide for flexibility of execution.

Category A - those targets the destruction of which would bring about a reduction of DRV support of the PL and VC actions in Laos and the Republic of Victnam (RVN). Appendix A. (Category A targets by type include armed reconnaiseance along highways leading to Laos, sirfields identified with supporting PL/VC, supply and ammunition depots, petroleum storage, and military headquarters and barracks connected with PL/VC support and infiltration.)

Category B - those targets the destruction of which would reduce the DRV military capability to take action against Laos and the RVN, Appendix B. (Category B targets by type include remaining airfields, important railroad and highway bridges, supply and ordnance depots in northern NVN, aerial mining, and petroleum storage in Hanoi and Haiphong.)



JCS 03/10/100

5

Enclosure A

(Revised by Decision - 30 May 1964)

DEGLASSIFIED BY AUTHORITY OF

DATE

CASE #

Docz



Category C - eignificant industrial targets, the destruction of which would effectively destroy the NVN industrial base, Appendix C (not including home industry).

4. The Joint Chiefs of Staff, in reviewing the force requirements to conduct sir strikes on selected targets in NVN, have based their computation on an assumption that 85 per cent probable destruction should be achieved. With regard to availability of aircraft, it was assumed that only the Vietnamese Air Force (VNAF) and US FARM GATE aircraft now in RVN that could be diverted from the counterinsurgency effort and the US forces that are scheduled for deployment in CINCPAC OPLAN 37-64 would be utilized.

5. The following is a list of available strike aircraft and sortie capability:

	Туре	Location	Number	Daily Sortie Rate	Combat Radius of Action
TANV	A-1H	Bien Hoa/ Da Nang	1 Sqn 25	+13	561
FARM GATE	B-57	Tan Eon Nhut	1 Sqn 24	*17	324
OXII	B-57	Clark AB/SEA	1 Sqn 24	#17	324
TABU	F-105	Korat	1 Sqn 13	•13	776
	F-100	Takhli	1 Sqn 13	*13	541 .
٠	F-100	Clark AB/SEA	2 Sqns 36	* 26	541
NAVY/	A-4C	CVA	2 Sqns 24	**2. 12	51 5
USMC	A-1H	CVA	1 Sqn 12	**1.41	561
	A-3B	CVA	1 Sqn 12	**1.5	1,000

^{*}Sortie rate 21 per month per sircraft (normal wartime planning factor).
**Sortie rate per sircraft per operating day (20 operating days per month).

Note: The above represents aircraft now available and does not consider additional A-1 aircraft programmed for VNAF and FARM GATE, mor does it provide for additional TAC/SAC and naval forces that could be made available.



Enclosure A

(Revised by Decision - 30 May 1964)

6

- 6. It is difficult to estimate the time required to attack all of the targets in each category and attain an 85 per cent probability of destruction, due to vagaries of weather, terrain, difficulty of target identification, maintenance and replacement of aircraft, and other variables that accompany an operation of this nature. Subject to the reservations listed, it is estimated that it would take:
 - a. VNAF: Seven plus months for Category A targets alone. However, it is doubtful that the current resources of the VNAF (pilots, pilot training, logistics base, and aircraft availability) are such that continuous combat operations of the order envisioned could be maintained for the period set forth.
 - b. VNAF and FARM GATE B-57s: Category A tazgets two plus months.
 - c. VNAF and FARM GATE, plus USAF/USN/USMC aircraft readily available (as listed in CINCPAC OPLAN 57-64): Category A targets 12 days; all categories 46 days.
 - d. In the event a decision is made to strike a major blow against NVN, a substantial reduction in time can be achieved by deploying additional tactical fighter squadrons (USAF and USMC), an additional CVA group to Southeast Asia, and utilizing those SAC forces listed in the Joint Strategic Capabilities Plan for contingency plans.
 - e. To sustain the 85 per cent probability of destruction to airfields, roads, railways, bridges, and other facilities which can be repaired rapidly, restrikes would have to be conducted for an indeterminate period.
- 7. The Joint Chiefs of Staff consider that those targets in NVN identified in Appendices A, B, and C offer a list of air strike targets within each category that if attacked in the order listed would have an ascending effect on DRV support of insurgency operations, military capabilities, and industrial output. Additionally, VNAF, USAF, and US naval forces readily available are capable of striking any or all of the targets and achieve an 85 per cent probability of destruction; however, prior te initiating operations, US forces should be deployed to their operational locations.
- 8. Righty-five per cent of the targets listed in Appendices A. B. and C are included in CINCPAC OPLANS, and CINCPAC is responsible for

T.º SECRET
JCS 2, 2/383

and the second second

Enclosare A

Revised by Dectaion - 30 Mar 1904)

additional targets selected as intelligence dictates. The process of adding or deleting targets is a continuing one to maintain currency of OPLANs. These fully staffed and JC5 approved plans for operations in Southeast Asia provide a suitable framework for conducting an air campaign against NVN.

- 9. Air operations can be conducted against any of the targets on the attached list. The intensity of execution can range from selective strikes in an ascending order of gradually increasing military pressure to a concentration of effort designed to attain the effect of a sudden blow.
- 10. From a military viewpoint, it is considered that the most effective application of military force will result from a sudden sharp blow in order to bring home the penalties for violating international agreements and the intent of the United States to bring a cessation of DRV support of the insurgency in Laos and RVN.
- 11. Prior to the execution of any air strikes, full low-level reconnaissance coverage of the target system should be accomplished to update target folders and provide detailed data for combat mission planning. Where feasible and without prejudicing the security of our own forces, immediately prior to conducting air strikes against NVN, leaflet missions should be flows warning the civilian population that certain targets or target categories are to be attacked and that the areas adjacent thereto should be evacuated to preclude civilian casualties.
- 12. The Joint Chiefs of Staff have approved this target list for use in current military planning.

For the Joint Chiefe of Staff:

SICNED

MAXWELL D. TATLOR Charringn Joint Chiefs of Stori

Attachments

TO DECKET JCS 2 V3/383

3

(Revised by Decision - 30 back at the

APPENDICES AND ANNEXES TO ENCLOSURE A

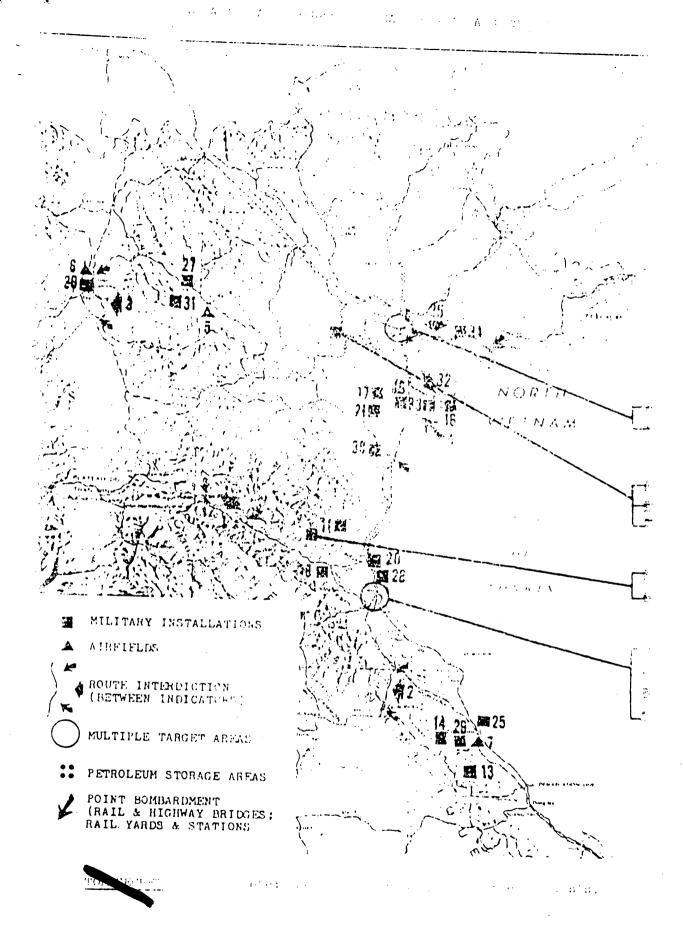
Appendix A (1 page) Annex (8 pages)

Appendix B (1 page)
Annex (10 pages)

Appendix C (1 page) Annex (2 pages)

JCS 2 13/383

Appendices and Annexes to Enclosure A



0617-03412		7 (617-06400	6615-00/18	5 6616-08420	TOP MET
184352: 1054028E 4 niles - Vinh	Lab A Weld	Dong Hoi Airfield 173045N 1063545E 4 rúles - Dong Hoi	Dien Bien Phu Airfield 212342N 1030035E 5 miler-Die Bion Phu Airfield	Na San Airfield 211201N 1040305E Not near urban area	IDENTIFICATION AND LOCATION
logistical resupply facility. Probably 20-30% direct support	irincipal FL/VM acrial	Frobably 3% of aerial resupply activities to PL/VC in southern Laos	Frebably 3:-400 of activity of FL associated with this field. Also major air evac facility to Hanol	Primary installation provides probably 30% direct support to FL/VM	SUFFORT TO PL/VC
ey air 6: Southern and central Laos	Reduction of 10-15% of	Refuce 20-3C% transport capabilities available in southern sectors Lacs to include SVN.	Immediate section of probably 25% aerial requirity capabilities	Redice acricl resupply, air evac & troop move-ment by approx 15%	EFFECT OF STRIKE OH CAFABILITY TO SUPPORT FL/VC
with 40 wpns. 5 other emplace- ments under con- struction mid 63	& occupied med	Amcunt Unknown	4 gun AAA posi- tion occupied south end run- way	Un'anown	TARGET SECURITY
	- 	48	æ.	49	NUMB (NON- PROB 500 1b. or
	70	70	70	70	NUMBER OF BOMBS (NON-NUC) FOR 85% PROBABLE DAMAGE 500 750 GAM 1b.or 1b. or 83A
		1	ı	1	AGE AGE BJA 83A

A) range to

7	9 00:7-0231	() Januari
.,		بتنا

1ິ ວິນ7-0182		1	9 0(-) 7-0231	पुत्रक्षाता () दारा है।
Vinh Petroleum Products storage 184009N 1054315E 1 mile - Vinh	Phu Qui Ammo Depot 191730H 1052126E	Phu Van Anno Depot I 1850000 1051841E Not near urban area	Phu Van Ameo Depot NE 165055N 1051940E Not near urban area	identitication wad tocketoni
Probable 15% of POL supplies provided to central and couthern Laos PL/VM units	Probably some support to 11, WH not far from Loos	Armo depot TAVN 324 Div and capable of supporting PAVN Bns in Hong Het area and PL/VM in PDA	Anno depos supportes PAVN 324th FLV and cap- able of supporting PAVN Bns in Hong Hot and FL/VC in Lacs.	SUFFORT TO PLAY
Estimated 5-10% in- country POL support capabilities	Probably noticeable reduction same sent into lacs.	Reduce military capa- bility of PAVE to support Prave	ATVAC BYAN .0 SUDDOL:	EFFECT OF STRIKE ON CAPABILITY TO SUPPORT PLAYE
AA wons avail- able. Estimated to- NAA guns in complex, 5 new sites under	identified	EXA EXAMPLE OF THE PROPERTY OF	AA COOK II COOK	TARGET SECURITY THOSUBLED ANA.
<u></u>	#3.3 2.0 3.1		765 610	100 150 150 150 150 150 150 150 150 150

Annex to

(Revised by Decision - 30 May 1964)

Appendix A

	•					
•	i 16-0249	5 516-0132	, 517-0044	. \$17-0239	.3 c617-0222	प्रकास (वव) प्रकास (वव) (वव)
	Qui Heu Ammo Depot y 203757N 1051430E Not near urban zrez	Nam Dinh Storage Depet & 202510H 1051003E In Nam Dinh	Vinh Army Supply Depot East 163940N 1054150E In Vinh	Luat Son Army Supply Depot 1709H 10646E Not near urban area	Kom Bang Army Supply Depot 170641N 1064509E Not near urban area	IDENTIFICATION AND LOCATION
to FL in Laus	Location indicates it possible serves as support installation	Supply storage for items intermediate supply reaching then ever houte point	Supports infiltration and line crossing activities in IMZ and scuthern Laos	Direct support to 270th Ind Inf Regt. 21 ware-houses capable of major support to PL/VC	Supports infiltration activities in DNZ	SUPFORT TO PL/VC
	Little effect on capability to support FL	Intermediate supply point	Reduce support of FL/VC via Houte 8	Directly affect infil- tration and line crossing activities in DWZ	Disrupt supply lines VC and PL	EFFECT OF STRIKE ON CAFABILITY TO SUFFORT PL/VC
	No AAA 1denti- fied in vicinity	2 btrys AAA, caliber unknown	Probably medium and light AAA	Probably none	frebably light AAA	TARGET SECURITY
	765	151	151	151	765	16. or 16. do 16
	610	185	7 <u>5</u> 5	185	610	NUMBER OF BONES FROMELE DAMAGE 500 750 or 831
•	•	•	•	1	•	Annex to Appendix A
<u>T</u> (R	lev1sed	by Dec	5 sision -	30 May 1	964)	Appendix A

TOP _ECRET

NUMBER
NUMBER OF BOMBS &

/	e3 0617-0211	27 0616-0103	26 0617-0069	25 0617-0327	24 0616-00438	23 0616-00277	TOP LIGHT
18540N 105180E Not near urban area	Vinh Son Hq 324 Inf Div S Do Luong	Son La Army Supply Depot 212005N 1035430E Not near urban area	Vinh Hq M11 Reg IV 184014H 1054005E In Vinh	Dong Ho1 Hq DMZ Front 17300N 105370E 2 miles - Dong Ho1	Xuan Mai Army Bks SSW 2053:1N 1053508E Not near urban area	Xuan Mai Army Bks 205641N 1053358E Not near urban area	IDENTIFICATION AND LOCATION
of PL/PAVH in Laos	Main elements 324th Inf Div on Rt 7 in support	Possible support of FAVN and PL/VC at Sam Neua area, Laos	Commands KR IV involving Reduce 269th and 271st reinforcement to RVH Inf Regt. Hence reducsouth and FL west tion to VC/FL support	Support to VC thin Hq 325th Inf Div	Training center for gos and cadre being infil-trated into RVN	Training center for gps and cadre being infil-trated into RVN	SUFPORT TO 11/1/C
	Cause major disruption of support to Laos	Dustruction would reduce FAVI support of FL/VC via Rt 41 to Sam Neue ares, Laos	Reduce 269th and 271st Inf Regt. Hence reduction to VC/iL support	Reduce support of mili- tary operation in south	Disruption of personnel supply line to VC	Disruption of personnel supply line to VC	EFFECT OF STRIKE CH CAPABILITY TO SUFFORT FL/VC
	Probably l∴jht AAA	Probably light AAA	Frobably light AAA	Probably light AAA	Unknown Probably light AAA	Unknown Probably light AAA	TARGET SECURITY
	304	151	304	57	1630	1680 1330	NUMBER (NON-RI PROBAL 500 1bor
	212 -	185 -	212 -	ф5 -	1300 -	1330 -	NUMBER OF BOMBS NON-NUC) FOR 85% FROBABLE DAMAGE 500 750 GAM 1bor 1b.or 83A
BERET				7		A:	nnex to ppendix A

TO. VOCREE
13

Man 2016-0114 Rig 202 In 1	Roa fro 191 210 6 m	31 0616-0371 Reg 211 In	30 0616-0526 2124 City	29 C517-0090 325 173 3 n	न्ता भारतात्र(इब) स्थान भारता
Man Dinh Hq Kil Reg III Right Bank 202452N 1060925E In Nam Dinh	Road Route 1 and Rail Route from Harrong to Hanol 19152CN 1054740E to 21010CN 10551105 6 miles - Sam Son; in Thanh/Hoa; in Emci	Son La <i>L</i> rmy Bks A Hq M11 Reg 211930H 103550CE In Son La	Dien Bion PhuHo 3 212405H 1030108E City	Charl: Hos Army Eks and Ha 325th Inf Div SE 1731CBN 10534525 3 miles Dong Hol	IDENTIFICATION AND INCATION
No direct association with FL/VC	Principal LOC from Hanoi to south	Immediate support to 316th Inf and assistance to FL	Direct support to FL at Phong Saly Province	Supports MR 4 in 1872 crea constitutes injor formation in uses	SUPPORT TO FL/VC
Madires: effect only	Rould seriously hinder troop/supply movement south	Would reduce flow of supplies west to Laos from WR IFF	Would reduce major supporting unit, 316th Inf Ede at Dien Elen Fhu	hasistance to VC would be reduced	EFFECT OF STRIKE OF CAFABILITY TO SUFFICHT PL/VC
Frobably light AAA	Medium and light btrys at Hanoi. Probably light AA at Finh Binh	Probably 11ght	2 Btrys medium AAA, probably some light AA	Frobably light AA	TATGET SECURITY
304	•	304	304	304	(NON-M FROBA 500 1b.or
212	ı	212	212	212	POR 750 GAM 1b. or 1b. or 634
1	•	•	t	•	A SS

NUMBER OF BOMES (NON-NUC) FOR 55%

Armex to compatit A

3

}	⊕ 063	37 06	06 06	. · · · · · · · · · · · · · · · · · · ·	34 06	CHUE
,	38 0617-0204	37 0616-0063	36 061 6-0 8408		34 0616- 0113	CHUER MID (BE)NUMBER
	Thich Linh Dong Army Supply Depot 194257N 1054255E 8 miles - Thanh Hoa	Hanol MiD Army and MZ Hq Bks and Supply Depot 2102001 1055040E In Hanol	Hanoi Gia Lam Airfield 210212N 1055318E 1 mile - Hanoi	Route 5 and RR 210100N 1005510E to 205115# 1064131E Halphong, Hanol area	Ha1 Duong Hq M11 Reg Left Bank 205657N 1062006E	IDENTIFICATION AND LOCATION
	Adjacent to routes supplying PL/VC probably important to their continued operations	Controls Policy	Probably 20-30% of FL/ VM/VC support associa- ted this installation	Indirect supply only	No direct support	SUPPORT TO 11L/VC
	Require relocating of facilities and replacement of destroyed material. Delay of supplies to FL/VC	Disruption of high Command and local supplies	Reduction 10% direct support and 20-30% of indirect support to fields providing direct support to PL/VM	Harassment and destruc- tion personnel and/or supplies enroute from port area to Hinterland	Disruption of road/rail center would restrict movement Hanol/Haiphong	EFFECT OF STRIKE ON CAFABILITY TO SUPPORT PL/VC
	No AAA identi- fied in immedi- ate area	16 medium and light AA Btrys protecting Hanoi	AAA in area has 5 groups of 8 emplace-ments, number occupied unknown	,	Possibly light AAA	TARGET SECURITY
	. 151	304	. 8	1	3C4.	NUMBER (NON-NI FROBAL 500 1b.gr

TOP SECRET

212

70

9

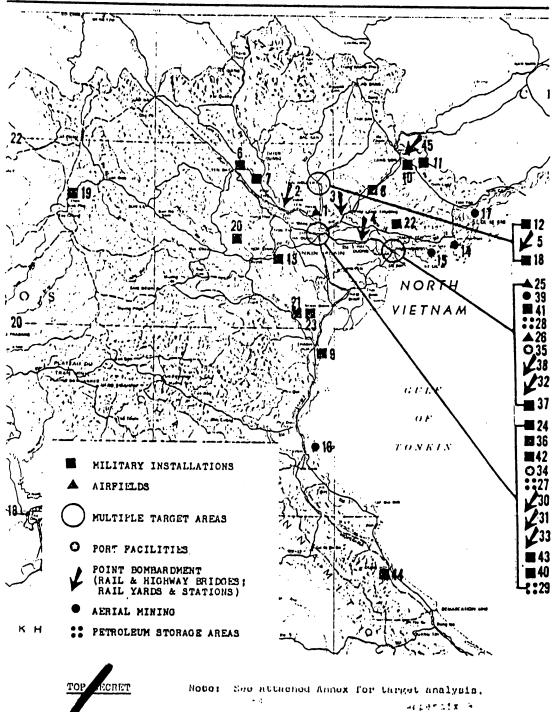
185

Annex to Appendix A



AFPENDER B

LOCATION AND ORDER OF CATEGORY B TARGETS



TOP S VREIT

AUTEX TO APPENDIX B

CATEGORY B TARGETS

4 616-00020	3 616-00023	2 616-00017	1 c516-03520	CRDER : JU (BE)NULBER
Hai Duong RR and Highway Bridge over Thai Binh 205633N 1062128E 1 mile - Hai Duong	Cua Tung Highway Bridge over Assist in interdicting Song Cau River Alghway movement from 211212N 1060539E 2 miles - Bac Ninh 7 miles - Phu Lang Thuong	Viet Tri RR and Hwy Bridge over Rivierie Claire 21175CN 1052655E 10 miles - Son Tay	Phue Yen Airfield 211320N 1054630E 30 miles - Hanoi	IDENTIFICATION AND LOCATION
Interdicts rail and highway routes between port of Haiphong and Hanoi and/or Hinterland	Assist in interdicting highway movement from Haiphong and/or Nanning	Interdicts primary rail route from Kinming and road north of river	Estimated 10% of logis- tical resupply capabi- lity	EFFECT OF STRIKE ON CAPABILITY TO SUPPORT PL/VC
Denial of through artery Residual capability limi- ted for weeks	Denial of through artery Remidual capability limi- ted for weeks	Denial of through artery Residual capability limi- ted for weeks	Reduction 50% jet medium support capability by destroying this facility	EFFECT OF STRIKE ON CAFABILITY TO WAGE WAR
,	,	,	Probably defended by units of 367 AAA Regiment	NUMBER OF BOMBS (NON-NUC) FOR 85% PROBABLE DAMAGE TARGET SECURITY 500 750 GAN INCLUDING AAA 1b.or 1b.or 83A
310	150	310	70	NUMBER (NON-NU PROBAL 500 1b.or
215 140	150 125	215	84	NUMBER OF BOMBS NON-NUC) FOR 85 PROBABLE DAMAGE 500 750 GAM 1b.or 1b.or 83A
140	4 5	140	•	AGE GAM

TOP CRET

11

Annex to

C /0 . . .

TOP ECRE
ECRET

9 0617-00 43	8 0516-0323	7 0616-0316	9410-9190	9 9 9 9 9 9	CRDER AND	TOP SCRET
Than Hoa Army Bks Supply Depot 194823N 1054633E In Than Hoa	Iang Het Ammo Depot 213211W 1061417E 8 miles morth of KEP Airfield	Tel Xouan Ammo Depot SE 214330N 1050800E Nct in urban area	Yen Bay Ordnance Depot 214233N 1045250E In Yen Bay	Tha1 Nguyen RR Station Yards and Shops 213331N 1055105E In Tha1 Nguyen	INCENTIFICATION AND LOCATION	
Hegligible	Probably noticeably reduce ammo being sent intocLaos	Strike would probably not noticeably affect PL/VC support capabi-	Though not directly in support of FL/VC depot probably distributes to these that do	Estimated little reduction of in-coutnry direct support to FL/VM	EFFECT OF STRIKE ON CAPABILITY TO SUPPORT PL/VC	
Reduce national strength by 5,000 as Than Hoa is location of 330th Brigade	Probably noticeably reduce capability to wage	Relatively minor depot off main communications lines	Considerable importance to over-all situation	Would curtail local industrial complex movement of basic Iron and steel components	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR	
Frotected by 11ght AAA btrys	No AA identi- fied	No AAA identi- fied in vicinity	No AAA identi- fled in vicinity	Estimated 38 AAA weapons de- ployed in area Approx 4 NM ARC of complex	TARGET SECURITY INCLUDING AAA	
151	765	765	765	1058	(NON-NU PROBAB 500 1b.or	
185	910	010	610	814	NUMBER OF BURES (NON-NUC) FOR 85% PROBABLE DAMAGE 500 750 GAM 1b.or 1b.or 83A	
<u> </u>	•	•	•	ı	W # E 50	Š



•				areas			
•	1512	2530 1512	No AA btrys are reported in this area	Denial places burden on road transport to Hin- terland and coastal	15€ loss of import capability	Aerial Mining Cam Pha 210128W 1072232E Mot near urban area	14 615-0009
ı	185	151	No AA 1dent1- f1ed	Slight reduction	Slight reduction	Xom Chang Army Supply Depot S.Hoa Binh 204632w 1051902E 3 miles - Hoa Binh	13 0616-01 <i>3</i> 7
	185	151	No AAA 1dent1- fied	Would to some extent limit PAVN ability to defend this increasingly important industrial area	Would have minor direct effert on capability to support FL/VC	Thai Hguyen Army Supply Depot N 213835N 1055110E Not near urban area	0616-0219
l	185	151	No AAA 1dent1- f1ed	Considerably reduce NVN ability to wage war in NE and along China border	Would not significantly affect PL/VC support capability	Loc Binh Army Supply Depot 21444CN 1065605E 10 miles - Lang Son	11 0616-0466
1	185	151	No AAA 1dent1- fled	Considerably reduce MVN capabilities in NE along major supply routes from China	Would not significantly affect PL/VC support capability	Lang Son Army Supply Depot 215050N 1064525E In Lang Son	10 0616-0108
AGE GAN 83A	NUMBER OF BOMBS (NON-NUC) FOR 85% PROBABLE DAMAGE 500 750 GAM 1b. or 1b. cr83A	NUMBEI (NON-MI PROBAI 500 1b. or	TARGET SECURITY INCLUDING AAA	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR	EFFECT OF STRIKE ON CAPABILITY TO SUPPORT FL/VC	IDENTIFICATION AND LOCATION	Onder and. (be) numer

TOP CORET

20 0616-01 <i>2</i> 9	19 0616-0171	18 0616-01 <i>0</i> 7	17 615-0010	16 617-0038	15 -0008	TOP TORET. CRIDER LID CRIDER LID (RE)NUMBER
Ban Xom Lom Eks 204935N 1044335E Not near urban arca	Dien Bien Phu Army Bks 212305N 1030120E Dien Bien Phu	Thei Nguyen the Sil Reg 213708N 1055020E In Thai Nguyen	Aerial Mining Port Wallut 211210N 1073421E Not near urban area	Aerial Mining Ben Thuy Port 183852N 1054239E 3 miles - Vinh	Aerial Mining Hon Gay 205704N 1070430E Not near urban arca	IDENTIFICATION AND LOCATION
Loss of possible division in training for PL support	Would represent loss of prime support unit in NV	Regisible	Would affect NV Navy capability to harass shipping hostile to VC	Little offect on naval support to VC. Some interference with junk fleet	Cripple NV Navy capabi- lity to support VC	EFFECT OF STRIKE OH CAPABILITY TO SUCCEST FL/VC
Loss of 10,000 troops and 250 buildings. Destroy extensive training facilities	Loss of 5,000 troops	Some reduction in the 2,000 troops and Hq facilities	Would reduce patrol and radar warming capability by 25%	Delay some transuhip- ment capability. Little effect on VN Navy	Destroy minor logistic and repair capabilities and possibly destroy bulk of larger navy craft	EFFECT OF STRIKE CN CAPABILITY TO WAGE WAR
Division AAA Bn support	2 Btrys medium AAA	Some light AA	4 medium AA guns 2530		1 Btry of light	
1330	1000 1330	30 g	2530	2530 1512	2530 1512	NUMBER NCN-NUC PROBABL 500 7 1b. or 1
1330			1512 -	1512 -	1512 -	NUMBER OF BOMBS (NCN-NUC) FOR 85% PROBABLE DAMAGE 500 750 GAM 1b. or 1b. or 83A
,	'		•	·		> × m Alo

14

Annex to Appendix B

8616-08405	24 0616-0202	23 0616-0273	22 0616-0298	21 0616-9291	TOP YECRET ORDEH AND ORDEH AND (BE);UNGGER
Haiphong Cat Bl Airfield 204902N 1064340E 4 miles - Haipheng	Hano1 M11 Eg the NVN ADC 210150N 1054050E In Hano1	Queng Suoi Army Bks NE 2C1047N 1055426E Hot near urban area	Dong Trieu Army Bks, Ne Trei Suu 200708N 1063228E Not near urban area	Bal Thuong Army Bl.; Somplex N 200501N 1052601E Not near urban area	IDENTIFICATION AND LOCATION
Reduction of estimated 20% of in-country resupply and support to airfield complex	Minor effect	Destroy large training facility and up to 10,000 troops	No direct effect	lcx Reduce over-all strength Loss of avallable troops PAVN	EPPECT OF STRIKE ON CAPABILITY TO STRIKE
Reduce capability to support jet medium bomber aircraft by 50%	Unless CHICOM fighter aircraft deployed to NVN, site destruction would limit only country AAA capability	Destruction of large adm hqs and 10,000 personnel	Loss of 3,000 troops and regimental train- ing facilities	1 Loss of 3,000 men to PAVH	EPFECT OF STRIKE ON CAPABILITY TO WAGE WAR
Unoccupied 8 gun AAA position, an occupied 8 gun light AA posi- tion both on east of zirfield	Probably com- posed of 134 AAA weapons. No tactical air available	No known AAA support in area	No known AAA support avail- able except light regt weapons	AAA support from brigade	TARGET SECURITY
70 84 -	193 135	1680 1330 -	1680 1330 -	1680 1330 -	NUMBER OF BOMBS (NON-NUC) PCR 85% PROBABLE DAMAGE 500 750 GAM 1bsor 1bsor 83A
CRET		15		Anne Appe	•

NUMBER OF BOMES (NON-NUC) FOR 85%	
POR 85%	
3	

28 061 6-0095	27 0516-0116	26 0616-08433	TOP VCRET
Haiphong Pctroleum Storage Area 205216N 1053942E 1 mile - Heiphong	Hano1 Petrolcum Products Storage 210341N 1055348E: 2 m11es - Hano1	Haiphon3 Kien An A.Trifeld 204829N 1063648E 5 miles - Haiphong	IDENTIFICATION AND LOCATION
Reduce 10-20% in-country Probable reduction of petroleum storage fact- 20% of FOL storage littes available to capability support PL/VC	Frobable reduction of 10% of POL support .o FL/VM	Probably 5-10% of air- lift and resupply support facilities in country	EFFECT OF STRIKE ON CAPABILITY TO SUPPORT FL/VC
Probable reduction of 20% of FOL storage capability	l of 4 major POL in- stallations in-country Would have considerable effect	Reduction of air trans- port capabilities by 10%, and in-country capability to handle deployed jet fighters by 10-20%	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR
Fire control pro- bably available. 72 medium AAA em- placements. 50 occupied. Mobile AAA wcapons avail- able; oallber amount not reported	Estimated 134 AAA weapons. No TAC/AIR avail- able in-country	6 mobile AA wea- pons near in- stallation, 16 emplacements. Number occupied unknown. Fire control system probably avail- able	TARGET SECURITY
. 484 432 -	48°1 432	70 84 -	NUMBER OF BOMES (NON-NUC) FOR 85% FROBABLE DAMAGE 500 750 GAM 1b.or 1b.or 83A
	16	Anne: Apper	to ndix B

-					
TOP . VRET	32 616-00069	31 616-00011	30 0616- 003 1	29 0616- u2 47	TO SECRET ORDER AND ORDER AND
	Haiphong Hi Marshall Jo 205137N 10 In Haiphong	Hanoi RR and Hi over Canal de R 210435N 105544 4 miles - Hanoi	Hano1 RR CLF Yard 210118N 1055042E In Hano1	Hanol Petroleum ; Storage Bac Hal 205955N 1055045E In Hanol	IDENTIFIC
	Haiphong Highway Bridge Marshall Joffre O Tram Bac 205137N 1064100E In Haiphong	Hanoi RR and Highway Bridge over Canal de Rapidos 210435N 1055443E 4 miles - Hanoi	CLP Yard and Shops 1055042E	Hanol Petroleum Jounducts Storage Bac Hal 205955N 1055045E In Hanol	IDENTIFICATION AND : DCATION
	Assist in isolating Haiphong and interdic- ting highway movements from port area	Interdicts primary route from Manning and Haiphong	Immediate reduction of yard classification capabilities and routing of RR units, north and south of Red River	Reduction of estimated 10% of POL support cape.lity	EFFECT OF STRIKE ON CAPABILITY TO SURFORT PL/VC
	Denial of through artery. Residual capa-bility limited for weeks	Denial of through artery. Residual capability limited for weeks	Reduce RR classifica- tion, repair, trans- shipment capabilities by estimated 20%	l of 4 major POL faci- litics, constitutes estimated 20% in- country POL storage	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR
	,	•	All AAA units Hanoi; 15 groups of 8 emplace- ments; 4 groups of 6 emplace- ments; 6 groups of 4 emplace- ments; for an estimated 134 meadum AAA weapons	Fire control Radar available Estimated 109 medium AAA wea- pons in complex Number light AAA not reported	TARGET SECURITY
	150	310	1058	#8	NUMBEI (NON-NI PROBAI 500
	125	215	4 18	‡ 32	NUMBER OF BOMBS (NON-NUC) FOR 85% PROBABLE DAMAGE 500 750 GAM 1b.or 1b.or83A
	♣	150	·	1	OMBS R 85% MAGE GAM
1	ר זינין אי עני		17	,	innex to

Tor secret	35 616-0001	34 0616-0014	33 616-00012	TOL GREI
	Halphong port facilities 205155N IC=4145E In Halphong	Hanoi port facilities 210137N 1055149E In Hanoi	Hano1 RR and Highway Bridge over Red River 210230N :1055200E In Hano1	IDENTIFICATION AND TOUATION
	Reduction of probable 20% in country port capabilities to transfur internal for import materials to Plyvo units	Francily reduce traific directly related to support of PL/VC by estimated 30%	Interdicts primary rail routes from both Kunming	EFFECT OF STRIKE CH CHENBILITY TO SUPPLIAT PL/VC
	Destruction major port facility limit country import-export activities by estimated 30%	Curtail probable 30% of maritime trade activities	Denial of thru artery Residual cappbility limited for weeks	EPPECT OF STRIKE CH CAPABILITY TO WAGE WAR
	Naval ships could 2530 augment estimated 73 medium AAA emplacements. Oround force installations in complex could direct AV and light AAA fire power. No tactical air available.	Probably AAA medium weapon capability ex- ceeds 109 total Pire control radar in complex Gunboats and light naval craft augment major AAA effort	1	TARGET SECURITY
	d 2530 1512 d - nd ons ght No	2530 1512	310 215	ITHEER OF BOMBS (NGF-MUC) FOR 85% PROBABLE DAMAS 500 750 GAM 1b.or 1b.or 83A
	1	•	16	OMBS R 85% MAGE GAN 83A

;; ...

39 616-0003	38 616-00332	37 0616-0061	36 0616-0259	TOP SECRET CADEA AND (BE)NUMMER
Aerial Mining Haiphong Approaches 204712N 1065100E 9 miles - Haiphong	Haiphong Highway Bridge over Son Da Bach 210020N 1064126E 8 miles - Heiphong	Haiphong Ammo Depot Kier An SW Pug 204836N 1063825E 3 miles - Haiphong	Van Dien Army Supply Depot 205610N 1055050E 4 miles - Hanoi	IDENTIFICATION AND INCATION
EQ\$ loss of water import capability for support material. Destroy naval support for V6	Delay movement of supplies from Haiphong to northern sector	No nationable effect	Probably contributes little to support of PL/VC and its minor functions could be readily assumed by adjacent depots	EFFECT OF STRIKE ON CAFABILITY TO SUPPORT PL/VC
Destroy navy capability to wage war	Denial of supplies from port area end storage depots	Depot fairly signifi- cant to HVN over-all strength	As part of Hanol depot complex this probably important cog but func- tions could be assumed by nearby depots	EPPECT OF STRIKE ON CAPABILITY TO WAGE WAR
Approx 10 btrys (80 guns) of medium and light AA in area	•	10 medium and light AAA btrys in vicinity	16 medium and light btrys of AAA identified in area	TARGET SECURITY
<u> </u>	130			. 853
7161		ų.	}	DF BOMB FOR 89 DAMAG 50 GA 50 GA
, ,	હ	ñ .	•	> = m Z

19

Annex to Appendix B

न १० सम्बन्ध

45 616-00025	44 0617-0110	43 0616-0271	0616-0490	41 0616-0158	40 0616-0063	TOP SECRET CROER AND (BE)NUMBER
Lang Scn RR & Highway Bridge over Son Ky Cung River 215101N 1064501E 1 mile - Lang Son	Dong Hoi Army Bks WW 172820N 1063540E 2 miles - Dong Hoi	Hanol Army Bks, S Quinh Lo1 210000N 1055111E 2 miles south of Hanol	Ha Dong Army Bks 205847N 1054742EE 5 miles SW Hanoi	Quang Yen Army Bks and Supply Depot 205649N 1064932E 5 miles north of Haiphong	Hanol MND Army MZ Hq Bks End Supply Depot 210200N 105540E In Hanol	IDEATIFICATION AND LOCATION
Interdicts primary rail and road from Nanning	Strike would reduce VC support by major formation in MR IV	Indirect support only	Indirect effect only	General support only	5% reduction of direct complex support capabilities to PL/VH	EPPECT OP STRIKE ON CAPABILITY TO SUPPORT PL/VC
Denial of thru artery Residual capability limited for weeks	Would reduce immediate PAVN capability to south	Capability of 308th Inf Div and 35th Arty Div would be reduced.	Postitle loss of 308th Inf Regt	Loss of 244 and 248 Ind Inf Regt, total 3,000	Reduce in-country capa- bilities probably 5%	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR
ı	Probably light	Hanoi city contains 16 btrys of medi- mum and light AAA	Possibly light AAA	Probably light AA	Probably 16 btrys of light and medium AAA weapons in com- plex	TARGET SECURITY
; ;	0	1680	1630		151	NUMBER OF BOMBS (NON-NUC) FOR 85% FROBABLE DAMAGE 500 750 GAM 1b.or 1b.or 83A
22	1330	1330	1330	183	185	OF BOI C) FOR LE DAM 150
1		•	1	•	.'	MBS 85% AGE GAM B3A

20

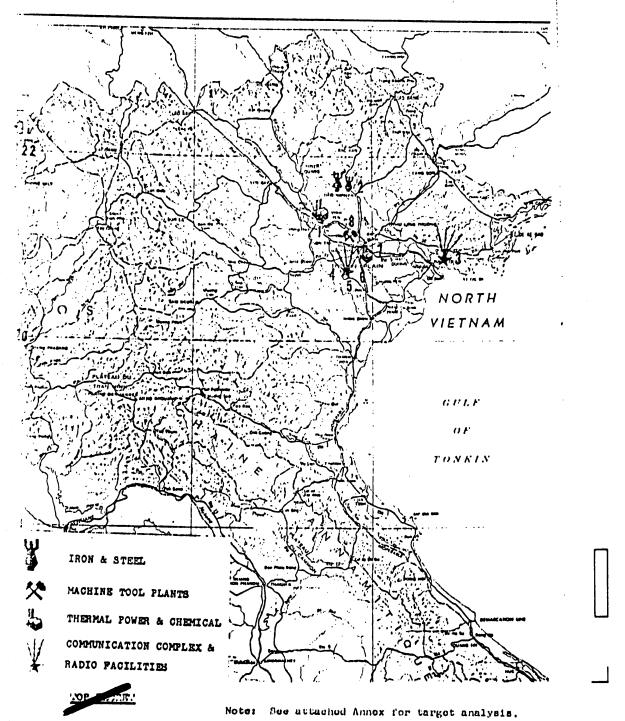
Annex to Appendix B

.. ra•



LOCATION AND ORDER OF JAVEGORY C TARGETS

 $A12-317(\mathbb{R})$



1947 RV.

XELIV
3
VELETIMIX
_

CATEGORY C TARGETS ANALYSIS

0616-00164 14	3 0616-0162	2 0616-0214	0616-0198	ORDER AND (BS)NUMBER
Hanoi Intl Radio Transm Sta Dai Mo 205850N 1054600E 5 miles - Hanoi	Haiphong Radio CMNC Sta Intl 205040N 1064152B 1 mile - Haiphong	Thai Nguyen Iron and Steel Combine 213342N 1055208E Not near urban area	Viet Tri Chemical Plant 211742N 1052522E Not near urban area	IDENTIFICATION AND LOCATION
Slight and temporary reduction of military capability	Slight and temporary reduction of military capability	Output of this complex is primarily non- military. However, strike would disrupt economic development and reduce capability to wage war	Plant produces chemicals primarily for non-military purposes, although may have some capability of producing explosives and munitions	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR
About 16 medium and light AA	About 10 medium end light AA . btrys	No AA 1dent1f1ed	No AA 1dent1f1ed	TARGET SECURITY INCLUDING AAA
55 #2	· 55	w	360 216	

Annex to Appendix C

					•	
0616-0261	8	70616-0016	0616-00161	5 5 5	ORDER AND (BE)NUMBER	
 Plant 210002N 1054920E In Hano1	Hanoi MV and Machine Tool	Hanoi Thermal Power Plant 210235N 1055051E In Hanoi	Hano1 Post TPA A TGR Sta BO HO 210133N 1055129E In Hano1	Hano1 Intl Radio Re: Sta Son Dong 210251N 1054132E 8 miles - Hano1	IDENTIFICATION AND LOCATION	
	Strike would have little immediate effect	Considerable. DRV has shortage of power. Strike would immediately affect communications, has operations and material production, disrupt economic development and reduce capability to wage war	Slight and temporary reduction of military capability	Slight and temporary reduction of military capability	EFFECT OF STRIKE ON CAPABILITY TO WAGE WAR	
TIBUC W OCTAS	About 16 medium and	Considerable About 16 Eedium and 11ght AA btrys	About 16 medium and 11ght AA btrys	About 16 medium and light AA btrys	TARGET SECURITY INCLUDING AAA	
	28	30	55	55	NUMBER OF LOMES (NON-NUC) PGR 85% PROBABLE DAMAGE 500 1b. 75% 1b.	
	146	ა 23	# 2	స Ar A	POLICE TO POLICE	



ENCLOSURE B

ENCLOSURE B	
The state of the s	
FACTS BEARING ON THE PROBLEM	,
1. Enemy Air Defense	1
a. Although the North Vietnamese Air Force does not	2
possess combat aircraft, an Air Force organization does	3
exist which, with the introduction of military aircraft,	4
would have limited combat potential. It is believed that	5
a number of North Vietnamese have received jet pilot	6
training in other communist countries. The Air Force	7
totals about 500 personnel, 25 piston trainers, 40 light	8
piston transports and five helicopters. Fifteen YAK-18s,	9
although classified as trainers, can carry two ll-pound	10
bombs. These trainers could be used also as observation/	11
reconnaissance aircraft. The DRV is reasonably well	12
covered with an early warning radar but the equipment is	13
old and the in commission rate is low. The radar high	14
altitude capability does not exceed 35,000 to 40,000	15
feet and the capability is extremely limited below 4,000	16
feet. Hanoi, Haiphong, and Vinh are protected by 85 mm	17
radar controlled AA guns an. certain smaller cities by	18
37 mm and 57 mm guns. Most of the country is relatively	19
undefended.	20
b. The degree of assistance that would be offered the	21
DRV by the Chinese communists (CHICOMs) and the operational	22
readiness of the CHICOM Air Force is difficult to assess.	23
By redeployment and operating from airfields in South China	,24
By redeployment and operating from airfields in South China Hainan Island and NVN, the CHICOMs could have available for operations about 420 jet fighters and 160 jet light bombers	25
operations about 420 jet fighters and 160 jet light bombers	.26
2 Friendly Forces	27
Republic of Vietnam (RVN). For the purpose of this	28
study, Vietnamese Air Force (VNAF) forces considered avail-	29
ALLEN STATE TO THE STATE OF THE	30
The state of the s	

Enclosure B

		the assumption	that ot		VAF aircraf	t will	.1
	Supportin	g the counterin	surgenc		ort in RVN.		2
3	b. US For	ces are those U	S Air F	orce (and US Nava	l aircraft	3
110		NCPAC OPLAN 37-	64. Th	ese a:	ircraft can	be in	4
pos	sition in	24 hours.					5
3.	The follo	wing is a list	of avai	lable	strike air	craft	6
and so	ortie capa	Location	Numbe	<u>r</u>	Daily Sortie Rate	Combat Radius of Action	7
VNAF	A-1H	Bien Hoa/ Da Nang	1 Sqn	25	*18	561	8 9
FARM GATE	B-57	Tan Son Nhut	1 Sqn	24	*17	824	10 11
UALL	B-57	Clark/AB/SEA	1 Sqn	24	*17	824	12
usaf	F-105	Korat	1 Sqn	18	*13	776	13
	F-100	Takhli	1 Sqn	18	*13	541	14
	F-100	Clark AB/SEA	2 Sqns	36	* 26	541	15
NAVY/	A-4C	CVA	2 Sqns	24	**2.12	515	16
USMC	A-1H	CAV	1 Sqn	12	**1.41	561	17 18
	A-3B	CVA	1 Sqn	12	**1.5	1,000	19

Note: The above represents aircraft now available and does not consider additional A-l aircraft programmed for VNAF and FARM GATE, nor does it provide for additional TAC/SAC and naval forces that could be made available.

4. By separate action, CINCPAC was requested to submit	20
recommendations for consolidation and/or elimination, as may	21
be practicable, of his unilateral contingency plans for Laos	22
and North Vietname He has recommended that those overt	23
actions in OPLANS 33, 34-A, 98 and 98-A be consolidated into	24
OPLAN 37 if not already included, and that OPLAN 33 be con-	25
solidated into OPLAN 99.	26
5. Of the 91 targets listed in this study 85 per cent are	27
contained in CINCPAC OPLANS	28
JUS MBE to CINCPAC, JCS 6338, DTG 161825Z May 64	•

^{**} CINCPAC mag to Uncrac, JCS 0530, DTG 1010252 May 04

** CINCPAC mag to JCS, DTG 230306Z May 64; on file in Joint
Secretariat

TOP SPACET

JCS 2343/383

11 Enclosure B

2343/383

1.0 P

^{*} Sortie rate 21 per month per aircraft (normal wartime planning factor)
** Sortie rate per aircraft per operating day (20 operating days per month)

TOP SCREET	
ENCLOSURE C	•
DISCUSSION	
1. Considering the retaliatory capability of the DRV/CHICOM	1
forces and the lack of air defense in RVN, appropriate air	2
defense units must be deployed to Southeast Asia in the event	3
the decision is made to carry out air operations in NVN.	4
2. Target selectivity has been designed to:	5
a. Demonstrate clearly the risk involved in Hanoi's	6
continuing support of the insurgency in Laos and RVN.	7
b. Prevent any attempt by the DRV to escalate or broaden	8
the scope of the conflict in both Laos and RVN.	9
	10
c. Destroy the industrial as well as the military base	
of NVN to the extent necessary to cause the DRV to cease	11
support of activities in Laos and RVN.	12
3. Three categories of targets and an order of targets	13
within each category have been developed for this purpose:	14
Category A - are those targets the destruction of which	15
would bring about a reduction of DRV support of PL and VC	16
actions in Laos and RVN, Appendix A to Enclosure A.	17
Category B - are those targets the destruction of which	18
would reduce the DRV military capability to take action	19
against Laos and RVN, Appendix B to Enclosure A.	20
Category C - significant industrial targets, the	21
destruction of which would effectively destroy the NVN	22
industrial base.	23
4. The target lists appended to Enclosure A were sub-	24
mitted* to CINCPAC for his comments. He replied** that	25
eighty-five per cent of the targets that are included in cur-	26
rent CINCPAC OPIANS 33-64, 34-64, 37-64 and 99-64. These are	27
	28
* JCB Mag DIG 211911Z May 64	
TOP 23/13/383 Enclosure C	
Contracting the state of the st	





From 101 Command and control, logistics and C & E. It is	1
recognized that some targets may change, and additional targets	2
can be selected as intelligence dictates. Air strikes in NVN	3
should be conducted within the framework of these fully staffed	4
and JCS approved plans for operations in Southeast Asia.	5
5. It is difficult to estimate the time required to attack	6
all of the targets in each category and attain an 85 per cent	7
probability of destruction due to vagaries of weather, terrain,	8
difficulty of target identification, maintenance and replace-	9
ment of aircraft and other variables that accompany an operation	110
of this nature. Subject to the reservations listed, it is	11
estimated that it would take:	12
a. VNAF, seven plus months for Category A targets alone.	
However, it is doubtful that the current resources of the	13
VNAF (pilots, pilot training, logistics base, and aircraft	14
availability) are such that continuous combat operations	15
of the order envisioned could be maintained for the period	16
set forth.	17
b. VNAF and FARM GATE B-57s: Category A targets - two	18
plus months.	1)
c. VNAF and FARM GATE plus USAF/USN aircraft readily	2:
available (as listed in CINCPAC OPLAN 37-64): Category A	2.J
targets - 12 days; all categories - 46 days.	25
d. In the event a decision is made to strike a decisive	23
blow against NVN, a substantial reduction in time can be	24
achieved by deploying three additional tactical fighter	25
squadrons to Southeast Asia and utilizing those SAC forces	26
(60 B-47s and 30 B-52s) listed in JSCP for contingency	27
烷酸 plans. 点 With the addition of this force, all targets could	28
be effectively destroyed in 22 days.	29
e: To sustain the 85 per cent probability of destruction	30
to airrields, roads, railways, bridges and other facilities	31
2343/383 Enclosure C	



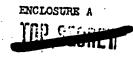
which can be repaired rapidly, restrikes would have to be conducted for an indeterminate period.

on the attached list. The intensity of execution can range from selective strikes in an ascending order of gradually increasing military pressure to a concentration of effort designed to attain a sudden blow effect. From a military viewpoint, it is considered that the most effective application of military force will result from a sudden sharp blow in order to bring home the penalties for violation and the intent of the United States to bring a cessation of DRV support of the insurgency in Laos and RVN. In any case, prior to conducting air strikes against NVN, leaflet drop missions should be flown. Leaflets should warn the civilian population that a designated target is to be attacked and that they should evacuate the target area.

70 .2343/383

Enclosure C

Committee of the Commit





THE JOINT CHIEFS OF STAFF WASHINGTON, D. G. 20201

> JC8M-729-64 24 August 1964

MEMORANDUM FOR THE SECRETARY OF DEFENSE

Subject: Target Study - North Vietnam (5)

- 1. The Joint Chiefs of Staff have conducted a detailed study of targets in North Vietnam (NVN) suitable for air attack utilizing readily available forces to conduct air operations in the event a policy decision is made to conduct combat operations against the Democratic Republic of Vietnam (DRV).
- 2. The selected targets in the DRV identified in Appendix A hereto provide a list of the most significant identified targets by type that are considered most critical to the DRV support of insurgency operations, DRV military capabilities, and industrial output. The purpose of air attacks against these targets would be to cause the DRV to desist from supporting the Pathet Lao (PL) and Viet Cong (VC) and to reduce the will and capability of that Government to renew any such support. This paper provides a series of target information and strike data studies, including the detailed analysis of each target and examples of possible weapons and sortic requirements to achieve a desired damage objective for each target, and indicates the capabilities of forces readily available.
- 3. The most significant identified targets in NVN have been selected and grouped into five basic categories. Photographs, descriptions, strike data, and other pertinent information for each target are provided in Appendix A and the America thereto.

Category A - Airfields.

Category B - Lines of Communications (bridges, railroad yards, and shops).

Catogory C - Military Installations (military barracks/head-quarters, ammunition depots, POL storage, supply depots, communications facilities, and port facilities).

TOT OFFIRET

GROUP 1 Excluded from automotic downgroding and doclaranteerion

TOP ST RET JCS 2343/383-2

19

Pholosure

(Revised by Decision - 24 August 1964)

DECLASSIFIED BY AUTHORITY OF

JAPASE

DATE

CASE #

OATSD(PA)DFOISR
OP SECRET CONTROL
Copy No.
Case No. 90 5-1825
T.S. No. 94-7- 304
Document No.

DOC 4



Category D - Industrial Installations.

Category E - Route Armed Reconnaissance.

4. The targets listed in this study have been weaponeered to provide examples of possible weapons and estimated number of sorties required to obtain the damage objective. Selection of specific ordnance will depend, inter alia, upon the availability of ordnance types at the operating locations. In this regard, the availability of ordnance types in PACOM, while deficient in numbers of 2000# bombs, Snakeye Kits for MK-81 bombs, and MLU-10B mines envisaged in this study, is adequate to accomplish the actions desired without necessity for the types of ordnance now deficient. Some in-theater relocation of PACOM stocks may be required or movement of certain deficient types of ordnance from CONUS may be desirable.

Pre-stockage of POL in Thailand is adequate to initiate actions; however, pre-stockage at selected operating locations in Vietnam will be required in addition to programming replenishment of POL stocks for all locations.

PACOM operations plans being developed on this terget data base will show ordnance and POL stocks required by location and movement necessary prior to implementation.

- 5. A recomaissance concept for adequate coverage of the target system in the DRV is provided in Appendix B hereto.
- 6. The Joint Chiefs of Staff, in reviewing the force requirements to conduct air strikes on selected targets in the DRV, have based their computations on levels of expected damage, which experience has shown to be these required to meet the desired damage objectives in the most economical way. With regard to availability of aircraft, it was assumed that only the Vietnamese Air Force and US FARM GATE aircraft that could be diverted from the counterinsurgency effort, and those US forces listed below that are scheduled for deployment in CINCPAC OPLAN 37-64 as updated, would be utilised.
 - 7. The following is a list of available aircraft and sertic capability:



TO. SECRET

JCS 243/383-2

20

Enclosure A

(Revised by Decision - 24 August 1964)

THE CHEST

· .	TYPE	LOCATION	NUMBER 1/	DAILY SORTIES	
YKAF	AlH	SEA	1 Sq (18 A/C)	• 13	
FARM GATE	AIE	8EA	1 Sq (18 A/C)2/	+ 13	
TABU	B-57	SEA	~2 8q (45 A/C)	• 32	
	F-105	SEA	1 Sq (18 A/C)	• 13	
	F-100	SEA	3 Sq (54 A/C)	• 38	
טאו/טאנכ	A4G	CYA	2 Sq (24 A/C)	** 24	
	AlH	CVA	1 Sq (12 A/C)	•• 8	
	AJB	CVA	1 Sq/Det (3-12 A/C)3/	++2-8	
	A4C	ŠEA	1 Sq (20 A/C)	++ 20	
	F4B	SEA	1 Sq (15 A/C)	** 10	

Sortie rate 21 per month per aircraft (normal wartime planning factor).
 Total sorties generated during 20 operating days per month divided by
 days provides sortie rate.

2/ COMUSMACY states that requirements for strike support of ARVN will exceed VNAF/FARM GATE capability for at least the remainder of the calendar year. If, however, a decision is made to utilise FARM GATE AlEs in the DRV strike program, the following is a sumulative strength by month:

JUL AUG SEP OCT NOV DEC 12 26 30 39 48 50

70 per cent of the above aircraft can be made available if required. This represents total anticipated operationally ready aircraft.

3/ Number of A3Bs embarked varies with CVA class.



TOP | CRET JCS 23 2/383-2

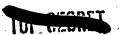
ລາ.

Enclosure A

(Revised by Decision - 24 August 1964)

^{1/} The above represents aircraft that can be made readily available and does not include additional PACOM/STRICOM/SAC forces that could be made available.

- 8. Using the appended target list as a nucleus of targets, CINCPAC has been directed to develop and submit strike plans for four patterns of attack in ascending order of severity against the DRV as follows:
 - a. Demonstrative strikes against a few military targets to show US readiness and intent to pass to alternatives b, c, or d, below.
 - b. An attack on some significant part of the military target system in the DRV for the dual purpose of convincing the enemy that it is to his interest to desist from aiding the VC and PL and, if possible, of obtaining his cooperation in calling off the insurgents in the RVN and Lacs.
 - c. An air campaign against significant military targets in the DRV with the objective of destroying them and, with them, the DRV capabilities to continue military support to the VC and PL.
 - d. A full-scale air campaign against significant military and industrial targets in the DRV with the objective of destroying them and, with them, the DRV will and capabilities to continue assistance to the VC and the PL.
 - 9. CINCPAC, in developing strike plans for the four patterns of attack outlined above, will apply, as appropriate, three types of forces to each pattern: VNAF only; VNAF plus FARM GATE; and VNAF/FARM GATE plus USAF/USN/USMC alreraft as deployed in CINCPAC OPLAN 37-64, as updated. The time required for accomplishing these attacks will vary from one to two days in the case of 8 a, above, and to several weeks for alternative 8 d.
 - 10. In the event a decision is made to strike a major blow against the DRV, a substantial reduction of time can be achieved by deploying additional factical fighter squadrons (US Air Force and US Marine Corps) and an additional CVA group to Southeast Asia and utilizing those SAC forces listed in the Joint Strategic Capabilities Plan for contingency plans.
 - 11. Air operations can be conducted against any of the targets on the attached list. The intensity can range from selective strikes in ascending order of gradually increasing military pressure to a full-scale air campaign against significant military and industrial targets.



JCS 2343/- 3-2

A principality

(Revined by Decision - 24 August 1964)

- 12. From a military viewpoint, it is considered that the most effective application of military force will result from a sudden sharp blow in order to bring home the penalties for violating international agreements and the intent of the United States to bring a cessation of DRV support of the insurgency in Laos and the RVN.
- 13. Reconnaiseance coverage of the target system (to include low-level serial photography) should be accomplished as required to update information. Where feasible and without prejudicing the security of our own forces, leafest missions could be flown, warning the civilian population that certain targets or target categories are to be attacked and that the areas stipacent thereto should be evacuated to preclude civilian casualities. In addition, antiaircraft suppression sorties should be executed, as appropriate, immediately preceding air strikes to increase survivability of attacking aircraft.
- 14. The Joint Chiefe of Staff have approved this target list as a target data base for use in current military planning.

For the Joint Chiefe of Staff:

SIGNED

CURTIS E. LEMAY Acting Chairman Joint Chiefs of Staff

Attachments

UI LOW

TCS 234 . 93-2

. 23

nolosure A

(Revised by Decision - 24 August 1964)

, RV.2

OF RET

APPENDIX B TO ENCLOSURE A

AERIAL RECONNAISSANCE CONCEPT

(2 pages)

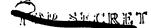
JCS 2345,4883-2

•

Appendix B to

TOTAL EN

1.





APPENDIX B

AERIAL RECONNAISSANCE CONCEPT

AMILIAN INCOMINATIONNON CONCERT	
1. This aerial reconnaissance concept of operations, as	1
enerally reflected in CINCPAC OPLAN 37-64, is considered	2
ppropriate for the targets contained in this study. Further	3
details will be introduced in operational strike plans at	4
appropriate level.	5
2. Concept	6
a. USAF RF-101 will direct their reconnaissance efforts	7
toward North Vietnam paying particular attention to inland	8
waterways, airfields, selected pinpoint and area targets,	9
and infiltration routes to northern Laos. Periodic examina	- 10
tion of northern parts of Laos and North Vietnam to obtain	11
early indication of a CHICOM build-up or development of a).2
CHICOM FARM GATE operation for the DRV will be emphasized.	13
b. The VNAF aerial reconnaissance capability and a porti	on14
of the USAF RF-101 force will continue to direct their main	15
efforts toward the previously instituted border control	16
reconnaissance operations. Similarly, in border control	17
operations, USAF RB-57s will augment the daylight reconnais	- 18
sance capability of the VNAF and USAF RF-101s, with a night	19
capability to provide for twenty-four hour coverage. This	20
will continue to ensure adequate high and low level visual	21
and photographic coverage of contiguous RVN border areas,	22
including the border to North Vietnam, to ascertain movemen	t,23
and confirm disposition of VC elements.	21
c. US Navy RF-8A and RA-3B of the CVA group, within	25
capabilities and without detriment to fleet missions, will	26
undertake day/night reconnaissance of North Vietnam coastal	. 27
areas and ports to obtain intelligence for aerial mining,	28
and other specified targets to obtain early knowledge of	, 29
any CHICOM augmentation of the DRV Forces.	30



A-B-1

Appendix B

MADE DE A

947 RV-2



TO SECRET

d. Forces available in CINCPAC OPIAN 37-64 for norial	1
reconnaissance are:	2
8 VNAF T-28C (less those on loan to RLAF).	3
10 VNAF RT-28D (less those on loan to RLAF).	4
3 VNAF RC-47	5
12 USAF RF-101	6
2 USAF RB-57	7
4 USN RF-8A	8
4 USN RA-3B	9
. Reconnaissance coverage of the target system (to	10
include low level aerial photography) should be accomplished	11
as required to update target information.	12

TOP S. WRET

A-B-2

Appendix B





<u> 101</u>	A transaction of the Art design and the Art of the Art	
	ENCLOSURE B	
	The state of the s	
	FACTS BEARING ON THE PROBLEM	
	1. Enemy Air Defense	1
And the second s	a. Although the North Vietnamese Air Force docs not have	2
Notary branchist	a combat air capability, an Air Force organization does	3
The second secon	exist which, with the introduction of military aircraft, water	_4_
	would have limited combat potential. It is believed that	5
	a number of North Vietnamese have received jet pilot training	6
majorgis	in other communist countries. The Air Force totals about	7
	500 personnel, 25 piston trainers, 40 light piston trans-	8
	ports and five helicopters. These trainers could also be	9
· · ·	used as observation/reconnaissance aircraft. The DRV is	10
	reasonably well covered with early warning radar, but	11
	the equipment is old, and the in commission rate is low.	12
	It is likely that the radar high altitude capability does	13
	not exceed 35,000 to 40,000 feet. Hanoi, Haiphong and	14
	Vinh are protected by 85 mm radar controlled AA guns and	15
	certain smaller cities by AA machine guns, 37 mm and probably	16
•	some 57 mm AA guns. The important ports and populated areas	17
	are AA defended as well as points along the coastal highway	18
	and interior routes.	19
•	b. The degree of assistance that would be offered the	20
	DRV by the Chinese communists (CHICOMS), and the operational	21
:	readiness of the CHICOM Air Forces is difficult to assess.	22
1.54 A	By redeployment and operating from airfields in South China,	23
The state of the s	Hainan Island and the DRV, the CHICOMS could have available for operations about 420 jet fighters and 160 jet light	24
	for operations about 420 jet fighters and 160 jet light	25
	bombers, and 40 prop light bombers.	26
	2. Friendly Forces	27
A Section of the sect	Air Defense. Present radar and communications systems	28
1	installed in RVN as the Tactical Air Control System and as	29
	installed in RVN as the Tactical Air Control System and as tied into the radar network in Thailand provide a limited	30
135-A/1207	THE STATE OF THE S	

Enclosure B

ground environment for conduct of air defense operations. However, it lacks sufficient early warning capability in the northern area of the RVN. Initial aerial defense will be provided by positioning 18 F-102s in SEA. In addition, offensive strikes will be conducted against those bases included in the target list for the DRV from which Chinese communist Air Force (CCAF) might be launched. Additional forces, including mobile radars and controllers will be alerted for immediate deployment as required. USN fleet defense will be provided by Tank Group and carrier based air defense aircraft.

b. Republic of Vietnam (RVN). For the purposes of this study Vietnamese Air Force (VNAF) forces considered available13 are limited to one AlH squadron containing 18 aircraft. The FARM GATE force considered available is one AlE squadron 15 containing 18 sircraft. This is based on the assumption that16 the other VNAF and FARM GATE strength will be supporting the 17 counterinsurgency effort in RVN. Precise VNAF and FARM GATE 18 forces which can be withdrawn from counterinsurgency opera- 19 tions and made available for strikes against DRV will detend 20 primarily upon the Pacification requirements at the time of 21 execution. The VNAF/PARM GATE force structure was determined in the context of Pacification requirements. VNAP aircraft in less than squadron strength might be committed on irregular basis to specific strikes for short periods. Oreater numbers could not be made available before October. For this study it was assumed that 18 VNAF aircraft could be 27 made available for short periods of time.

. c. US Forces. These forces are those US Air Force, US Navy and US Marine aircraft available as listed in Appendix III to Annex A of CINCPAC OPLAN 37-64 as updated.

Englosure B

4

9 10

11

22

23

28

30





d. The follow	ing is a	list of	the st	rike airo	raſt	1
and sustained so	managa sagajagan sa sa sa		• •			2
	TYPE L	OCATION	NUMBER	1/	DATLY SORTIES	
VNAP	Alh	SEA	1 Sq (18 A/C)	*13	3
FARM GATE	Ale	SEA	1 Sq (18 A/C) 2	·/ *13	4
TARU	B57	SEA	2 Sq (45 A/C)	*32	5
	F-105	SEA	1 Sq (18 A/C)	*13	6
	F-100	SEA	3 Sq (54 A/C)	*38	7
usn/usmc	A4C	CVA	2 Sq (24 A/C)	# # 24	8
	AlH	CVA	1 Sq (12 A/C)	** 8	9
	A3B	CVA	1 Sq/1	et (3-12	A/C) 3/ ##2-8	10
	A4C	SEA	1 Sq (20 A/C)	**20	11
•	F4B	SEA	l Sq ((15 A/C)	**10	12
* Sortie rate 21	per mont	h per ax	rcraft	(normal v	artime	13
 planning factor Total sorties a month divided b 	'). :enerated	during	20 oper	ating day		13 14 15 16
available, and SAC Forces that 2/ COMUSMACV state of ARVN will extend a decision is a strike program,	could be that reced VNA inder of the	e made e equireme F/FARM O the cale tilizo F	vailabl nts for ATE cap ndar ye ARM GAT	e. strike o ability i ar. If, E AlEs ir	upport for at however,	17 18 19 20 21 22 23 24
JUL AUG	SEP	oc	T	VOV	DEC	25
12 26	30	39		48	50	26
70 per cent of if required.	the abov	o aircra	ft can	be made a	vailable	.27
This represents aircraft.		nticipat	ed oper	ationally	ready	28 29
3/ Number of A3Bs		varies	with CV	A class.		30
3. By separate a	ctions3	CINCPAC	uas dir	rected to	develop	31
and submit strike ;	lans for	four pa	tterns	of attack	: i n	32
ascending order of	severity	against	the DR	W as foll	.ows:	33
a. Demonstrat	ive atri	ces agai	nst a f	ew milita	ry targets	34
to show US read:	ness and	intent	to pass	to alter	natives b,	35
c or d below.			in the second		u j u	36
O JCS mags to CINC DIG. 221603Z Jun		וע גיטכס	.057	142 Jun 0	4; JCS 6219, L 64	

RET 29

CRevised by Decision - 24 August 1964)

b. An attack on some significant part of the military	1
The second contract of the period of the second contract of the seco	2
enemy that it is to his interest to desist from aiding the	3
VC and PL and, if possible, of obtaining his cooperation	4
in calling off the insurgents in RVN and Laos.	5
C. An air campaign against significant military targets	6
and uith the objective of destroying them and with them	7
DRV capabilities to continue military support to the VC	8
and the PL.	9
d. A full scale air campaign against significant military	10
and industrial targets in DRV with the objective of destroy-	11
ing them and with them DRV will and capabilities to continue	12
assistance to the VC and the PL.	13
4. The targets listed in this study will provide the nucleus	14
of targets upon which the CINCPAC strike plans mentioned in	15
paragraph 3 above will be based.	16

30

EWCRE T

Enclosure B



ENCLOSURB C	
DISCUSSION	
1. Although the DRV has a very limited combat air capability	1
it can be augmented with CHICOM resources. Therefore, appro-	2
priate air defense units must be deployed to Southeast Asia in	3
the event the decision is made to carry out air strikes against	4
the DRV.	5
2. The most significant targets in the DRV were selected for	6
the purpose of:	7
a. Demonstrating clearly the risk involved in DRV's	8
continuing support of the insurgency in Laos and RVN.	9
b. Preventing any attempt by the DRV to escalate or	10
broaden the scope of the conflict in both Lass and RVN.	11
c. Destroy the industrial as well as the military base	12
of the DRV to the extent necessary to cause the DRV to cease:	13
support of activities in Laos and RVN.	14
4. Five basic categories or types of targets have been	15
developed:	16
Category A - Airfields	17
Category B - Lines of Communications (bridges, railroad	18
yards and shops)	19
Category C - Military Installations (military barracks/	20
headquarters, ammunition depots, POL storage, supply depots	21
communications facilities, port facilities)	22
Category D - Industrial Installations	23
Category E - Armed Reconnaissance Routes	24
5. The targets appended to Enclosure A have been approved by	25
CINCTAC and will be considered in formulating CINCPAC strike	26
plans. It is recognized that targets are constantly being added	/27
deleted based on intelligence and analysis. As a target is	28
added, target folders are automatically propared by CINCPAC	29
component commands. Air strikes in the DRV should be conducted	30
SECRET	
RECRET	

יו ענים אוונט אר



A A STANDARD AND A ST	
within the framework of fully staffed and JCS approved CINCPAC	1
OPLANS for operations in Southeast Asia.	2
6. It is difficult to estimate the time required to conduct	3
strikes on all targets in each category. Vagaries of weather,	4
terrain, difficulty of target identification, maintenance and	5
replacement of aircraft, and other operational variables will	6
afrect the time required to conduct operations of this nature.	7
7. CINCPAC in developing strike plans for four patterns of	8
attack against the DRV (i.e., _a_7 demonstrative strikes;	9
_b_7 an attack on some significant part of the military tar-	10
get system; _co_7 an air campaign against significant military	11
targets; and [d] a full scale air campaign against signi-	12
ficant military and industrial targets) will use the attached	13
target list as a nucleus for planning. Three types of forces	14
will be applied as appropriate to each pattern: VNAF alone;	15
VNAF stiffened with FARM GATE; and VNAF with FARM GATE plus	16
USAF/USN/USMC alroraft available (as listed in CINCPAC OPLAN	17
37-64 as updated). The time required for accomplishing these	18
attacks will vary from one to two days in the case of 7/8/	19
to several weeks for alternative 7/d_7.	20
8. The VNAF capability, based on probable available air-	21
craft and sortie generation capability, is not deemed adequate	2 2
for conducting a massive or significant strike. The capability	23
and availability is adequate for demonstrative strikes only.	24
9. In the event a decision is made to strike a decisive	25
blow against the DRV, a substantial reduction of time can be	26
obtained by deploying additional tactical fighter squadrons	27
(USAF and USMC) and an additional CVA group to Southeast Asia,	28
and utilizing those SAC forces listed in the JSCP for con-	29
tingency plans.	30
10. To sustain the level of damage achieved in the initial	31
strikes, restrikes would have to be continued for an indeter-	32
minate period.	33
SECRET	
strikes, restrikes would have to be continued for an indeterminate period. SECRET JCS 23-183-2 32 Enclosure C	
The state of the s	
אף או	



- William Control of the Control of	
11. Air operations can be conducted against any of the	1
targets on the attached list. The intensity of execution or	ın 2
range from selective strikes in an ascending order of gradue	
increasing military pressure to a full scale air campaign	4
against significant military and industrial targets. From	5
military viewpoint, it is considered that the most effective	• 6
application of military force will result from a sudden sha	rp 7
blow in order to bring home the penalties for violation of	8
international agreements and the intent of the United State	s 9
to bring a cessation of DRV support of the insurgency in	10
Laos and RVN.	11

12 12. Recommaissance coverage of the target systems (to include low level aerial photography) should be accomplished 13 as required to update target information. Where feasible and 14 without prejudicing the security of our own forces, leaflet 15 missions could be flown warning the civilian population that 16 certain targets or target categories are to be attacked and 17 that the areas adjacent thereto should be evacuated to pre-18 clude civilian casualties. In addition, anti-aircraft sup-19 20 pression sorties should be executed, as appropriate, immediately preceding air strikes to increase survivability of 21 22 attacking aircraft.

Enclosure C

J. O. W. W. W. B. IL.

сору но.____

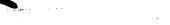
REVISION OF APPENDIX A TO ENCLOSURE A.

TO

JCS 2343/383-2

VOLUME I

TO THE PER TE



APPENDIX A	1
TARGET STRIKE DATA	2
1. XI The Ettached list contains targets within four basic	3
ategories (Category E has been deleted).	4
Category A - Airfields.	<u>5</u>
Category B - Lines of Communication (bridges, railroad	<u>6</u>
yards and shops, and ferries).	7
Category C - Military Installations (military barracks/	8
headquarters, ammunition depots, POL storage, supply depots,	9
communications facilities, and naval bases/port facilities/	10
mineable areas).	11
<u>Category D</u> - Industrial Installations.	12
2. 📶 Rationale for target selection, including desired	13
amage level and probability of achieving this damage level,	14
collows:	15
a. Category A - Airfields	16
All airfields with hard surfaced runways and fixed	17
support facilities. Fifty percent protacility of	18
achieving 30 percent damage to above-ground facilities.	19
b. Category B - Lines of Communication	<u>20</u>
(1) Bridges	21
Bridges in North Vietnam (NVN) which are the key	22
interdiction points along all the main rail and mign-	23
way routes and along most of the secondary postes.	24
Eighty-five percent probability of collapsing one span.	25
(2) Railroad Yards and Shops	26
All significant railroad yard and shops in NVN.	<u>-7</u>
Damage to these installations would seriously hamper	28
rail operations. Fifty percent probability of achieving	29
12 percent damage (yards); 50 percent probability or	30



A-1 (Revised by 17th Note to Holders)

L. .

achieving 30 percent damage (shops.)

Appendix A

<u>31</u>



c. Category C - Military Installations

(1) Military Barracks/Headquarters

All major military barracks and headquarters in NVN. Due to the difficulty of accurately locating military headquarters as separate targets, they are included as collocated targets within the barracks areas whenever appropriate. Fifty percent protability of achieving 30 percent damage to all above ground facilities.

(2) Military Supply and Ammunition Depots

All major military supply and ammunition depots in NVN or those which, because of their location near the Lastian or RVN border, are capable of providing direct support to the Pathet Lao and Viet Cong. Fifty percent probability of achieving 30 percent damage to storage and major support facilities.

(3) POL Storage

All major bulk storage facilities in NVN and dispersed storage facilities with a capacity of 1,000 metric tons or more. Fifty percent probability of achieving 70 percent damage (bulk); 50 percent probability of achieving 30 percent damage (dispersed).

(4) Naval Bases, Port Facilities, and Mineable Areas

Port facilities in NVN which handle most of the maritime traffic and naval bases at which units of the NVN Navy are based. In addition to these ports and naval bases, six approaches have been targeted as mineable areas. Fifty percent probability of achieving 30 percent damage to operational and support facilities (ports/bases); 30 percent probability of achieving moderate damage to a single ship (mineable area).



A-2 (Revised by 17th Note to Holders)

Appendix A

2<u>6</u> 2<u>7</u>

<u>30</u>



(5) Communications Facilities

All key communications facilities in NVN. The loss of these facilities would rightficantly impair government controls, both political and military, and would have an adverse psychological effect on the populace. Fifty percent probability of achieving 70 percent damage to control buildings and generator facilities.

(6) Surface-to-Air Missile (SAM) Support Facilities
All major, fixed, SAM support facilities. Fifty
percent probability of achieving 30 percent samage.

d. Category D - Industrial Installations

All significant electric power facilities in NVN and the principal steel, chemical, machine tool, and fertilizer plants. Fifty percent probability of achieving 30 percent damage to production facilities or transformers (factories/transformer stations); 50 percent probability of achieving 75 percent damage to bottlers and transformers (power plants).

5. Definitions

a. BASIC ENCYCLOPEDIA (B.E.) is a compilation of installations and physical areas of potential significance as objectives for attack within certain specified categories. The B.E. is published annually.

b. BASIC ENCYCLOPEDIA NUMBER (B.E. Number) identifies a target installation. The first part of the number indicates the number of the World Area Code (WAC) which identifies the area within which the installation is located. The second part is an identification number for the installation itself. The B.E. Number is the most widely accepted and most stable target identifier. Requests for the assignment of B.E. Numbers are generated by the unified and



 Λ -3 (Revised by 17th Note to Holders)

Appendix A

<u>13</u>

<u>15</u>



operation commands and by the Derense Intelligence Agency	ì
(DIA) analysts. DIA assigns numbers to approved requests	2
and places them in the intelligence system.	3
c. DESIRED MEAN POINT OF IMFACT (DMPI) is that point on	4
the target about which it is desired to center the bomtfall.	<u>5</u>
d. CIRCULAR ERROR PROBABLE (CEP) is the radius of a	6
circular area around the DMPI within which, on an average,	7
50 percent of the bombs would fall. Any single bomb would	8
be as likely to fall within the CEP as beyond it.	9
e. DEFLECTION ERROR PROBABLE (DEP) is the distance from the	10
DMPI to either of two lines parallel to the axis of attack be-	11
tween which, on the average, 50 percent of the bombs would fall	- <u>12</u>
f. RANGE ERROR PROBABLE (REP) is the distance from the	13
DMPI to either of two lines perpendicular to the axis of	14
attack between which, on the average, 50 percent of the bombs	<u>15</u>
would fall.	16
g. DAMAGE OBJECTIVE is the purpose to be satisfied or	17
the goal to be achieved in attacking a target. For	18
example, the damage objective in attacking an airfield	19
may be interdiction of flying operations for a specified	20
period.	<u>21</u>
h. DAMAGE CRITERION is a damage standard established as	22
the basis for judging the fulfillment of a specified damage	23
objective. For example, the damage objective may be inter-	24
ruption of operations of an integrated steel plant for 6	<u>25</u>
months. The damage criterion chosen on this basis may be	26
collapse and rupture of coke-chemical gas mains. The	<u>27</u>
probability of accomplishing the objective is therefore	28
considered to be the probability of at least collapsing	<u>29</u>



∧ −4

Appendix A

•
ADT THE TOTAL PROPERTY OF THE PARTY OF THE P
and rupturing the coke-chemical gas mains. Associated
with this may be other damage which will contribute to the
objective, such as overturning of blast furnace superstruc-
ture, destruction of power plant boilers, structural damage
to mill buildings, etc.
1. EXPECTED DAMAGE is the amount of damage to be
expected on the average. Sometimes more damage will be
accomplished, sometimes less. Thus, expected damage is the
average value expected in the long run from a number of
trials; it is not the damage to be expected in any one
trial.
j. DAMAGE LEVEL is an expression of the extent of damage
to a target or a target system. The damage may be measured
in terms of structural damage to buildings, production loss
casualties, inventory, or other appropriate terms. The
damage level is usually expressed in terms of percent of
the original target. For example, the damage level at an
airfield may be expressed as 50 percent of the aircraft
severely damaged; at a port, 30 percent of the warehouses
structurally damaged, etc. k. COLLATERAL DAMAGE is damage to facilities or resource
k. COLLATERAL DAMAGE IS Gamage

sources lian/ outside the planned target area. In th military casualties are also listed under the general heading COLLATERAL DAMAGE.

- 1. PROBABILITY OF ACHIEVING DAMAGE LEVEL is expressed in percent and indicates the proportion (or percent) of successes expected in a large number of trials. 4. CEPs
- a. Unguided ordnance requirements for each target for dive/glide tumbing are computed on a combat CEP of 200 feet.
- b. Ordnance requirements for the GAM 83A (AGM-12B/ BULLPUP) are computed on a 60-foot CEP.



۸-5

Appendix A

1 2

3

4

<u>5</u> <u>6</u> <u>7</u> 8

13

14

<u>15</u> 16

17

18

19 20 21

22

23 24

<u>25</u>

<u> 26</u> 27

28

29

<u>30</u> <u> 31</u>

32

loss,

- are computed on a 30-foot DEP and a 100-foot REP.
- d. Ordnance requirements for rockets are computed on a 26-mil CEP and for strafing runs on a 16 mil CEP. The open-fire point for rocket salvos is calculated as 3,000 feet and for strafing as 2,000 feet.
- e. Ordnance requirements for laser-guided, electrooptical guided, and other internally guided weapons are computed on a 15-foot CEP.

5. Operational Factors

a. The sorties required for each target are based on aggregated operational factors, nominal bomb load, and a nominal radius of operations. Detailed planning, using positioned forces, refined operational factors, and actual bomb load, will result in more specific requirements. Sortie requirements reflected were developed using Joint Strategic Terget Planning Staff (JSTPS) planning factors for aircraft reliability and weapon reliability. The following formula (with factors) was used: weapon system reliability (.90) x weather-darkness factor (.94)* x penetration probability (.98) x prelaunch survival probability (1.0) = weapon delivery probability of .82. This factor is considered moderately conservative for US Forces and, by the same token, slightly optimistic for Vietnamese Air Force (VNAF) forces However, in consideration of the many variables involved, it is considered to be an applicable figure for planning computations.

A-6 (Revised by 17th Note to Holders)

Appendix A

2

3

<u>4</u> 5

<u>6</u> <u>7</u>

8

9

10 11

12

13 14

15

16 17

18

19

20

21

22

<u>23</u>

24

25

26

It was assumed that sorties would be launched only when forecast weather would permit execution of the planned delivery tactic. The .06 reflects an estimate of percentage of times that actual weather will be less than forecast.



The state of the s	
b. The aircraft weapon load used to compute required	1
sorties over target in this study is based on an average of	2
the carrying capabilities of the type forces available	3
using a 400-450 nautical mile average radius of operation.	4
Weapons loading would be significantly altered using posi-	<u>5</u>
tioned forces and specific types of aircraft. In addition,	<u>6</u>
mixed weapon loads were not considered because of the many	7
combinations and permutations possible. Detailed planning	8
by operational commanders would include optimum load re-	2
quirements and type ordnance, as appropriate. The sortie	10
requirements reflected in the target data studies are	11
based on one of the nominal weapon loads listed below.	12
(1) Twelve 250 lb bombs or MK-81 SNAKEYE.	13
(2) Nine 500 lb bombs.	14
(3) Six 750 lb bombs.	15
(4) Three 1,000 lb bombs.	16
(5) One 2,000 lb bomb.	17
(6) Six 5" ZUNI LAU-10A Pcds (four rounds per pod).	18
(7) 500 rounds 20mm.	<u>19</u>
(8) Two GAM-83A (AGM-12B/BULLPUP).	20
c. VNAF sortie generation capability was computed at	21
1.0 sortic per day per operational ready aircraft (70	22
percent). US Forces sortie generation rates were determined	23
using standard planning factors.	24
6. Formula for determining overall population totals:	25
a. Each individual house: six persons.	26
b. Shop/houses (combination store/shop and house): eight	27

per ons.

(Revised by 17th Note to Holders)

Appendix A

Industrial housing (barracks or dormitory-type	1
nousing associated with industry): 100 persons.	2
Middle Small industry (similar to size of one warnouse):	3
40 persons.	4
e Medium industry: 200 to 400 persons.	<u>5</u>
f. Large industry: 1000 to 2000 persons.	<u>6</u>
7. Formula for estimated civilian casualties:	7
a. Within the target area: 60 percent of civilian	8
population (nonalert)6 percent (alert).	9
b. Outside the target area but within the 600-ft zone	10
(three CEPs) immediately adjacent to the target area:	11
10 percent of civilian population (nonalert) - 1 percent	12
(alert).	<u>13</u>

A-8
Revised by 17th Note to Holders)

Appendix A

The attached Annexes and Tabs provide pertinent information on each of the selected targets listed below. The target name is the name generally used in Joint Staff papers; it is a shortened, standardized version of the name reflected in the Basic Encyclopedia.

TGT #	BE /	NAME	ANNEX	TAB	<u>6</u>
*1 -255 -47	616-8420	Na San AP	A	A	7
*2	616-8418	Dien Bien Phu AF	A	В	8
3	616-8408	Hanoi/Gia Lam AF	A	c c	9
# 4	617-8400	Dong Hoi AF	A	D	10
*5	617-8412	Vinh AF	A	Ë	· <u>11</u>
*6	616-8520	Phuc Yen AF	A	F	12
*7	616-8407	Hano1/Bac Mai AF	A	G	13
*8	616-8405	Haiphong/Cat Bi AF	Α	H	14
*9	616-8433	Haiphong/Kien An AP	A	I	15
*9.1	616-8438	Kep AF	A	J	16
*9.11	616-8485	Кер На АГ	A	κ	17
*10	616-0477	Ninh Binh RR/Hwy Br	В	A	18
*11	6160020	Hai Duong RR/Hwy Br W	В	В	19
*12	616-0012	Hanol RR/Hwy Br Red R	В	C	20
*13	616-0011	Hanoi RR/Hwy Br Canal	В	ם	21
*14	617-0002	Thanh Hoa RR/Hwy Br	В	E	22
*15	616-0017	Viet Tri RR/Hwy Br	В	F	23
*16	616-0023	Dap Cau RR/Hwy Br	В	G.	24
*17.	616-0332	Haiphong Hwy Br	В	н	25
*18	616-0025	Lang Son RR/Hwy Br	В	I	<u>26</u>
*18.1	617-0018	Dong Hoi Hwy Br	В	J	27

Struck

A -

Appendix A

<u>3</u>

<u>5</u>

Secretary and the second		Label a service			!
TGT W	BE #	NAME	ANNEX	TAR	<u>1</u>
*18.11	.,617-0631	My Duc Hwy Br	B	ĸ	2
*18.12	.617-0259	Xom Phuong Hwy Brs	В.	L	3
*18.13	617-0515	Kim Cuong Hwy Br SW	В	м	4
*18.14	617-0732	Khe Kien Hwy Br W	В	N	5
*18.15	617 -0622	Bai Duc Thon Hwy Br NW	В	0	<u>6</u>
*18.19	617-0514	Kim Cuong Hwy Br W	В	s	7
*18.2	617-0171	Thanh Yen Hwy Br	В	T	8
*18.21	616-0478	Phu Ly RR Br	R	U	9
*18.22	616-0664	Co Trai RR/Hwy Brs	В	v	10
*18.23	616-0479	Bac Giang RR/Hwy Br	В	W	11
*18.24	616-0707	Cao Nung RR Br	В	x	12
*18.25	616-0065	Hai Duong RR/Hwy Br E	В	Y	13
*18.26	616-0784	Lang Con RR Br NW	В	Z	14
*18.27	616-0783	Lang Bun RR Br	В	AA	<u>15</u>
*18.31	616-0480	Kep Hwy Br	. В	AE	16
*18.32	616-0225	Tri Dong Hwy Br	В	AF	17
*18.33	616-0075	Thai Nguyen Hwy Br	В	AG	18
*18.35	616-0073	Cho Moi Hwy Br	В	ΛŢ	<u>19</u>
*18.36	616-0074	Ha Gia Hwy Br	В	AJ	20
*18.38	616-0714	Dan Phuong Hwy Causeway	В	AL	21
*18.41	616-0726	Ban Pom Lot Hwy Br S	В	AO	22
*18.42	616-0244	Xuan Mai Hwy Br	В	AP	23
*18.44	617 -0979	Phuc Thiem Hwy Br	В	AR	24
*18.46	617-0975	Xom Thai Xa Hwy Br	В	AT	<u>25</u>
*18.47	617-0258	Ly Nhan Hwy Br	В	ΑÜ	26
*18.49	617-0978	San Dinh Hwy Br	В	AW	27

A-10 '

Appendix A

STAN					
TOT	BE #	NAME	ANNEX	TAB	1
18.5	617-0022	Dien Chau RR Br	В	AX	2
18.52	617-0174	Xom Gia Hwy Br	В	AZ	3
*18.53	617-0971	The Son Hwy Br	В	BA	4
*18.54	617-0278	Ha Tinh Hwy Br	В	38	<u>5</u>
18.58	616-0665	Lang Dang RR Br	В	af	<u>6</u>
*18.59	616-0619	Long Khap Hwy Br	В	BG	7
*18.6	617-0023	Tam Da RR Br	В	вн	<u>8</u>
*18.61	616-0218	Bac Can Hwy Er	В	BI	9
*18.62	616-0823	Lang Luong Hwy Br	ъ	ಕ್ರ	10
*16.63	616-0750	Vinh Tuy Hwy Br	5	ЕK	11
*18.64	616-0?27	Ban Pa Huone Hwy Br	В	āL	12
#18.65	616-0076	On Hwy Br	В	Mā	13
*18.66	616-0816	Me Xa Hwy Br	В	BN	14
*18.67	615-0286	Chieng Chang Hwy Br	I:	30	15
*18.69	617-06?3	La Khe Thon RR Br	تَ	воъ	16
*18.7	617-0024	Qui Vinh RR Br	В	BP	17
*18.71	616-0412	Loc Binh Hwy Br	В	ВРа	18
*18.72	616-0679	Xuan Mai Hwy Br SW	B	ВРъ	19
*18.74	616-1150	Vu Chua ER Br S	В	BPd	20
*18.75	616-1159	Lang Met Hwy Br	В	BPe	21
*18.76	615-0293	Ha Chanh Hwy Br	P	EPf	22
18.77	615-0350	Ha Chanh Hwy Br N	В	BPg	23
18.78	616-1253	Lam Hwy Br NE	В	eph	24
*18.8	617-0001	Dong Phong Thuong RR/Hwy	Br B	BQ	<u>25</u>
*18.9	617-0388	Xom Ca Trang Hwy Br	В	28	26
# 19	616-0221	Yen Vien BR Yd	В	BS	27

Struck

A-11

Appendix A

STRET	<u>.</u>				
7114		The state of the s			. • ?-
TGT #	BE / Name	MANUEL NAME	ANNEX	TAB	<u>1</u> ;
*20	616-0022	Hanoi RR Repair Shops	В	BT	2
.21	616-0031	Hanoi RR Yd/Shops	В	BU	3
21'.1	617-0027	Vinh RR Yd	В	ВV	4
*21.11	616-0409	Thai Nguyen RR Yd/Shops	В	BVa	<u>5</u>
* 22	616-0488	Xuan Mai Bks SSW	C	A	<u>E</u>
* 23	616-0277	Xuan Mai Bks NNW	C	В	<u>7</u> .
# 24	617-0090	Chanh Hoa Bks SE	c	С	8
*25	616-0371	Son La Bks/Supply Dpo/MR Hq	C	כ	<u>9</u>
*26	616-0171	Dien Bien Phu Bks	С	E	10
*28	616-0123	Ban Xom Lom Bks	С	G	11
*29	616-0273	Quang Suoi Bks NE	c	н	12
*31	616-0150	Ha Dong Bks/Supply Dpo	С	J	13
*32 .	617-3780	Vu Con Bks	C	к	14
*33	617-03.10	Dong Hoi Bks WNW	С	L	15
*34	616-0282	Vinh Yen Bks/Trng N	С	M	16
*35	616-0205	Son Tay Bks SW	С	N	17
*37.	616-0119	Moc Chau Bks	С	P	18
*39	617-0082	Chap Le Bks NW	С	R	19
*39.1	617-0223	Ben Quang Bks SW	č	s .	20
*39.11	617-0084	Hoan Lao Bks S	Ç	T	21
*39.12	617-0203	Dong Hoi Bks	C	U	22
*39.13	617-0623	Phu Le Bks/Supply Dpo	C	V	23
*39.14	617-0099	Ba Don Bks	С	W	24
*39.17	617-0799	Don Bai Dinh Mil	С	Z	25
*39.18	617-1057	Muong Sen Mil	С	2a	26
*39.19	617-1058	Muong Sen Radcom Sta	C	26	27

Appendix A

٠.٠

SF		ng profit medil di seguin di menerimana ng seguin di seg			
TOT / B	E. J. Cherry	FINE NAME	ANNEX	TAE	<u> </u>
¥. 39.2 . 6	17-0081	Vinh Linh Bks NE	C	ÂA	2
39.22 6	17-0556	Thanh Hoa Vehicle Repair	C	AAb	<u>3</u>
39.23 .6	317-0814	Thanh Hoa Bks SSE	C	AAc	4
*39.24 6	317 - 0815	Sam Son Bks W	С	DAA	<u>5</u>
*39.25 6	17-0124	Vinh Son Bks S	С	AAe	<u>6</u>
*39.266	517-0624	Dong Cao Thon Bks	С	AAf	7
*39.27	617-00?7	Vinh Bks NNE	С	ΛAg	<u>8</u>
*39.28	617-0324	Bai Thuong Bks NE	C	AAh	9
*39.29 · (616-0467	Kep Ha Bks NE	С	AA1	<u>10</u> .
*39.3	617-0657	Mu Gia Pass Supply	С	AB	11
*39.31	6170085	Xom Trung Hoa Bks/Ammo Dpo NN	IM C	ABa	12
*39.32	617-0723	Xom Bang Bks E	С	ABb	13
*39.33	616-0953	Trai Thon Bks	С	ABC	14
*39.34	617-0094	Ha Tinh Eks/Supply Dpo	С	ABd	15
*39.35	617-1229	Co Dinh Bks NW	С	A2e	16
*39.36	617-0236	Vinh Bks NW	С	ABC	17
39.37	616-0368	Vinh Yen Bks NNE	С	ABg	18
39.38	616-0372	Phu Tho Bks NW	С	ABh	19
*39.39	617-0123	Phu Van Bks SSE	С	AB1	20
39.41	616-0315	Ngoc Thi Bks/Supply Dpo	С	ABK	21
#39.42	616-0305	Son Dong Bks/School	C	AB1	22
*39.43	616-1376	Kep Vehicle Repair	C	, ABm	23
*39.44	616-0458	Chi Ne Bks	C	ABn	24
*39.46	616-0170	Bien Son Bks NNE	С	ABp	25
*39.47	617-1511	Giap Rong Bks	С	ABq	26
- -,	617-1324	Quang Khe Bks	C	ABs	27

A-13 (Revised by 17th Note to Holders) Appendix A

101	And the second				
TOT /	BE A MARKET	NAME	ANNEX.	TAB	<u>1</u>
39.5	617-0237	Xom Trung Hoa Bks/Supply Dpo NV	1 C	AD	2
39.51	617-1138	Nam Son Bks	С	ADa	3
39.6	617-0805	Vinh Linh Bks SW	C	AZ	4
*39.7	617-0226	Vinh Linh Bks E	C	AF	<u>5</u>
*39·8	617-0225	Vinh Linh Bks NW	С	AG	<u>6</u>
#40	617-0491	Phu Qui Ammo Dpo SW	C	AI	7
#41 .	617-0080	Phu Van Ammo Dpo E	C	AJ	<u>8</u>
#42	617-0953	Phu Van POL	С	AK	2
*43.	6160249	Qu1 Hau Ammo Dpo W	С	AL	10
#44 .	616-0146	Yen Bai Bks	С	AM	11
*45	616-0061	Haiphong Ammo Dpo SW	c	AN	12
*46	616-0475	Ban Phieng Hay Ammo Dpo	C	AO	13
* 47	616-0555	Yen Son Stor	С	AP	14
*47.1	616-0631	Yen Khoai Bks/Ammo Stor	c	AQ	15
*47.11	616-0431	Hoai An Ammo Dpo	c	AR	16
*47.12	616-0323	Lang Het Ammo Dpo	C	AS	<u>17</u>
*47.13	616-0316	Tai Xouan Ammo Dpo SE	С	AT	18
*47.14	616-0353	Vinh Yen Ammo Dpo	C	AU	<u>19</u>
*47.16	615-0279	Hon Gai Explosives Stor	C	AW	20
*47.17	616-0790	Cam Ly Ammo Dpo	C	λX	21
*47.18	617-0626	Xom Rung Ammo Dpo	C	AY	22
*47.19	616-0559	Ban Nuoc Chieu Ammo Dpo	С	AZ	23
*47.2	616-0366	Lang Chi Explosives Plant	С	BA	24
#47.21	616-0725	Bac Giang Ammo Dpo	c	BAa	25
*47.22	616-7905	Bac Can Ammo Dpo	С	BAb	<u> 26</u>
# 48	616-0005	Haiphong POL	С	88	27

Struck

A-14

Appendix A

SF	The second second second		1		
TOT	RR	NAME THE	ANNEX	TAB	<u>1</u> .
149	616-0116	Hanoi Pol	С	ВС	2
*50	617-0182	Vinh POL	C	BD	3
*51	616-0630	Nguyen Khe POL	С	BE	4 .
*51.1	616-0662	Ha Cia POL SSW	С	БF	<u>5</u>
*51.11	616-0234	Bac Giang POL	С	BFa	<u>6</u>
*51.12	616-07.17	Nam Dinh POL	С	BFb	<u> 2</u>
*51.13	616-0081	Do Son POL	С	BFc	<u>8</u>
*51.14	616-0319	Viet Tri POL	С	BFd	9
*51.16	617-1018	Phù Qui POL	С	BFC	10
*51.17	616-1176	Duong Nham POL	С	BFg	11
*51.18	616-1340	Can Thon POL	С	BFh	12
*52	6170044	Vinh Bks/Supply Dpo E/MR hq	c	BG	13
*53	617-0122	Phu Van Supply Dpc SE	C	вн	14
* 54	617-0204	Thien Linh Dong Supply Dpo S	C	BI	15
* 55	oi:- J087	Vinh Son Supply Dpo SW	С	ВЈ	16
*56	617-0151	Phu Qui Bks/Supply Dpo	С	BK	17
57	6160063	Hanoi MND/MZ Hq	C	BL	18
*60	616-0210	That Nguyen Supply Dpo N	C	80	19
*61	616-0137	Xom Chang Bks S	С	37	20
*62	616-0259	Van Dien Supply Dpo	С	BQ	21
* 63	616-0105	Thuan Chau Eks/Supply Dpo	С	BR	22
*63.1	617-1174	Vinh Loc Stor S	С	BRa	23
*63.11	616-0696	Van Dien Vehicle Dpo	С	вяь	24
*63.13	617-1289	Chue A Bks, supply	С	ಕಿನಿಡ	25
*63.14	616-0144	Son Tay Supply Dpo	c	BRe	26
*63.2	617-0091	Dong Thanh Warehouse S	С	BT	27

Struck

A-15

Appendix A

dernie.		er various garage (particular de la company) de la company de la company de la company de la company de la comp La company de la company de			į
TGT #	BE #	NAME	ANNEX	TAB	1
*63.21	617-0217	Dong Thanh Warehouse W	C ~~~	ВТа	. 2
*64	617-0222	Xom Bang Ammo Dpo	C	BU	3
*65.8	616-1476	Hanoi SAM Support	C	BVg	4
, 56 ···	616-0164	Hanoi Intl Radcom Xmtr	С	B₩	<u>5</u>
*66.1	616-0888	Hanoi Radcom Revr	С	BWa	<u>6</u>
67	616-0165	Hanoi Intl Radcom Revr	С	вх	7
*67.3	617-0647	Chanh Hao Radcom Sta	C	cs	8
*68	615-0009	Cam Pha Port	С	CZ	9
68.1	615-0291	Cam Pha Approaches (Mining)	, c	CZa	10
* 69	615-0008	Hon Gai Port	C	DA	11
69.1	615-0292	Hon Gai Approaches (Mining)	С	DAa	12
70	616-0001	Haiphong Port	С	BD	13
70.1	616-0003	Haiphong Approaches (Mining)	С	DC	14
*71	617-0038	Ben Thuy Transshipment	С	סס	15
71.09	617-1016	Phuc Loi Approaches (Mining)	C	DDa	16
*71.1	617-0697	Phuc Loi Naval Base	C	DE	17
*71.13	617-0774	Ham Rong Port E/W	C	DH	18
*72	615-0149	Fort Wallut Naval Base	C	DO	19
72.1	615-0293	Port Wallut Approaches (Mining)) C	DOa	20
*73	616-0014	Hanoi Port	C	DP	21
74	617-0932	Quang Khe Approaches (Mining)	C	DQ	22
*74:1	617-0585	Quang Khe Naval Base	C	DR	23
75	616-0198	Viet Tri Chemical Plant	D	A	24
*76	616-0214	Thai Nguyen Steel Flant	D	В	<u>25</u>
77	616-0261	Hanoi Machine Tool Plant	t	С	26
*77.1	6160706	Haiphong Cement Plant	D	Ca	27

* Struck

SF AUI

A-16

Appendix A

SEL ATOT	And de land being	Marie Trade - Comment of the Comment	***		
TOT /	bE /	NAME	ANNEX	TAB	<u>1</u>
78.1	616-0629	Phu Tho Fert Plant	(1) D □	.Da	<u>2</u>
79****	616-0142	Bac Giang Fert Plant	D	E	3
*80	616-0007	Haiphong TPP W	D	7	4
*81	616-0016	Hanoi TPP	. D	G	<u>5</u>
*82	616-0438	Uong Bi TPP	D	Н	<u>6</u> .
*82.1	617-0533	Thanh Hoa TPP	D	1	2
*82.11	617-0036	Ben Thuy TPP	D	J	8
*82.12	616-0051	Haiphong TPP E	D	ĸ	9
*32.13	615-0014	Hon Gai TPP	D	L	10
82.14	616-0153	Lao Cai TPP	. 0	M	11
*82.15	616-0232	Nam Dinh TPP	D	N	12
*82.16	616-0382	Thai Nguyen TPP	D	0	<u>13</u>
*82.17	616-0320	Viet Tri TPP	D	Þ	14
*82.18	617-0370	Co Dinh TPP	ס	Q	<u>15</u>
82.19	616-0771	Phu Ly TPP	D	R	<u>16</u>
*82.21	617-0869	Ban Thach HPP	D	T	<u>17</u>
82.22	616-0764	Ta Sa HPP	ם	U	18
82.23	616-0765	Ta Sa HPP Na Ngan	, D	v	19
#82.24	616-0545	Hanoi Transformer Sta	E	W	20
82.25	616-0703	Lang Chi HPP	r	X	21
*82.26	616 - 0699	Bac Giang TPP	I	Y C	22

Struck

A-17

Appendix A



SECURITY CLASSIFICATION FOR THE SEPARATE PARAGRAPHS OF EACH "TARGET INFORMATION AND STRIKE DATA" PAGE IS AS FOLLOWS:

1. (U)

2. (U)

شدن و ت

,4. (U)

5: 185

. .

7. 58)

8. 12/

9. 181

10. 18

11: (29)

12. (84

13. (0)

14. 188

· 15. (U)

Appendix A

A-18

ANNEX A TO APPENDIX A

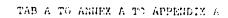
CATEGORY A

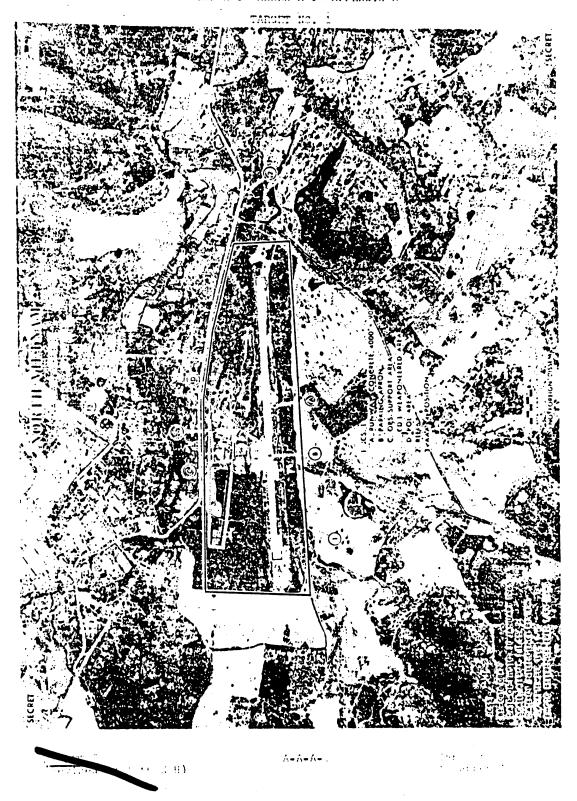
' AIRFIELDS

A-A-1

Annex A to Appendix A

TOP CHOKE!







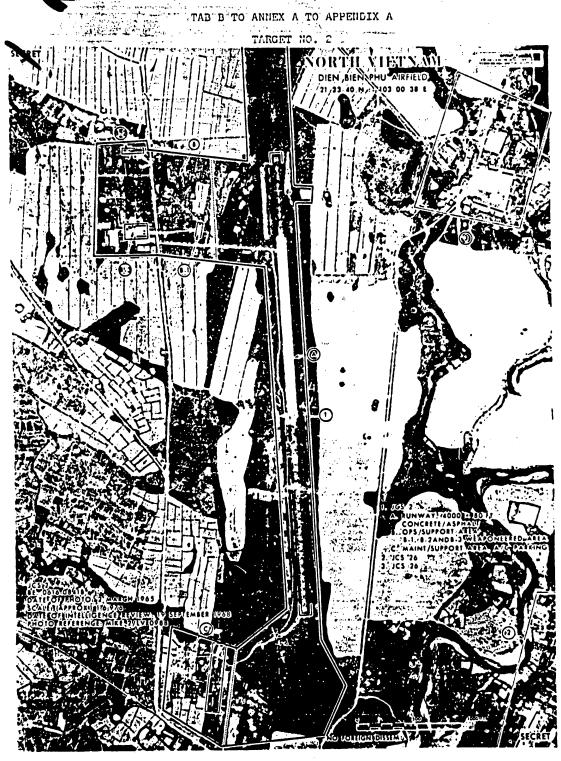
TARGET INFORMATION AND STRIKE DATA

د ت ب	1 ARCHI NUMBER: 11	1
	2. BE NUMBER: 616-8/120	2
· · .	3. IDENTIFICATION: Na San Airfield	3
	4. DATE OF INFORMATION: 13 September 1968	1;
	DATE OF TISD: 5 December 1968 DATE OF PHOTOGRAPHY: 30 January 1965	5 6,
•	DATE OF THTELHOUNCE REVIEW: 10 September 1968	7
,	5. LOCATION: 21-12-49N 104-02-17E. located 2 NM E of Na San, 105 NM W of Ha Not.	8
•	runway (A) oriented WHW/ESE. Single parking upon (B) approximately 195 x 390' located N side of runway. Storage and support area (C) (located N side of runway and S of Route 6) contains 11 buildings (estimated total 18,855 sq. ft.) and a POL storage area (D) estimated at 37,000 gals.	10 11 12 13 14 15 16
	7. SIGNIFICANCE: Facility utilized by transport aircraft (Crates) and serves as connecting facility between Ha Noi and Dien Bien Phu. No evidence is available of supporting activities to PL/VC operations in Laos.	17 18 19 20
	8. TARGET ENVIRONMENT: Na San Airfield is adjacent to Route 7. Support buildings cover 63 acres N of runway. N of airfield is a military complex of 375 - 400 acres and S is farmland that is probably part of the State Farm system. All are situated in a broad corridor between high hills. There are no populated areas immediately surrounding the airfield. Several scattered farm villages can be located within a 5-mile radius.	21 22 23 24 25 26 27 28
	9. DEFENSE ENVIRONMENT:	50
	a. The target is within the SAM envelope.	30
	E. AAA activity has been identified within 3 NM of the target.	31
	c. HMG and small arms fire is anticipated.	32
	10. DAMAGE OBJECTIVE: Destroy aboveground support facilities and parked alreraft. Damage criteria is structural damage to maintenance facilities. Damage level is 30%.	33 34 35
	11. EFFECT ON NVN: Reduced direct air logistic support capability to PL/VC and/or 316th Brigade at Dien Bien Phu.	36 37
	12. RECUPERABILITY: Destruction of support and storage facilities and interdection of runway would probably preclude usage of this installation for 5-7 days. Troops in area could probably effect emergency repairs in that time.	38 39 40 41 42
,	NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADIN	IG

A-A-A-2

TAB A to Annex A to Appendix A

13. COLLATERAL DAMAGE:	1
a. None Casualties*	, 2
Population Casualties	3
Target Area Adjacent Area Target Area Adjacent Are	a 4
MIL CIV MIL CLV MIL CIV MIL CI	.v 5
125	6
*Estimated under daylight alert conditions.	7
14. RECOMMENDED WEAPONS AND SORTIES:	8
This target complex is comprised of " areas.	.2
Weapons and sorties have been computed for one area (which includes portions of 2 target areas). To show	10 11
the effort required to achieve the damage level pre- scribed, total weapons/sorties required over target are	12 13 14
also shown:	
(1) In order to achieve a damage level of 30%, weapons/sorties required over target:	15 16
250# 500# 500# 750#	17
WEAPON SNAKEYE SNAKEYE BOMB BOMB	18
Area C-D (290 x 9/10) 61/5 31/3 51/6 30/5	19 20
「経験ないがらなる」。Weapons/sorties operationally required to	21 22
achieve "over target" requirements shown above: 74/6 38/4 62/7 36/6	23
	24
(3) In order to achieve a damage level of 70%, weapons/sorties required over target:	25
Area C-D 201/17 105/12 169/19 99/17	26
(4) Weaponn/sorties operationally required to achieve "over target" requirements shown above:	27 28
2/15/20 126/14 203/23 119/20	29
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL:	30
50%	31
5	
A-A-A-3 TAB A to	
Annex A Appendix	
(Revised by 15th Note to Holders)	



RET led by 15th N/H)

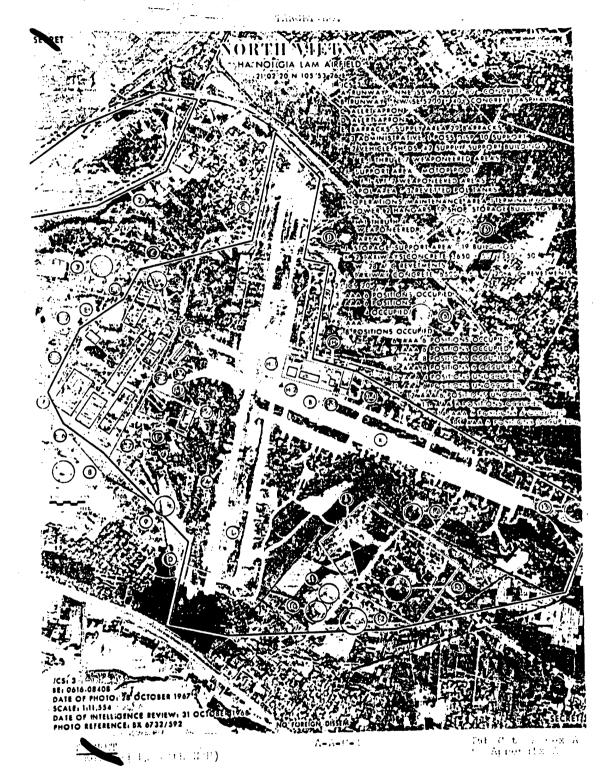
A-A-B-1

Tab B to Annex A to Appendix A

.	
S. ROT	
TARGET INFORMATION AND STRIKE DATA	•
1. TARGET NUMBER: 2	1
2. BE NUMBER: 616-8418	.2
3. IDENTIFICATION: Dien bien Phu Airfield	3
DATE OF TISD: 4 December 1968	14 F)
DATE OF PHOTOGRAPHY: 2 Morch 1965 DATE OF INTELLIGENCE REVIEW: 19 September 1968	ζ, 7
5. INCATION: 21-23-40N 103-00-38E, located 0.5 NM NW of Dien Blen Phu, 5 NM E of Lactian border, and 6.4 NM N of Ban Cang.	8 9 10
6. DESCRIPTION: Airfield has a concrete/asphalt 4000' by 80' runway (A) with a 920' sod overrun at the NNW end. Runway is oriented NNW/SSE. There is no secondary runway or taxiway. Storage/support (B) area about 300 yds W of the NNW end of runway, contains about 13,100 sq. ft. of storage space. Administrative/operations building located between storage/support area and runway. Barracks/support area (C) SW of CSE end of runway.	11 12 y13 14 15 16 17 18
7. STGNIFICANCE: This airfield was reconstructed in late 1958 and has been used by light transport aircraft. Facility is one of two (Na San (JCS #1) being the other) major air installations located in NW North Vietnam.	19 20 21 22
8. TARGET ENVIRONMENT: Airfield is located in the N central portion of the large valley containing Dien Blen Phu. It is an integral part of a large military complex, centered around and S of Dien Blen Phu, which contains elements of the 316th Infantry Brigade. Nearest significant civilian habitation is the town of Dien Blen Phu.	23 24 25 26 27 28
9. DEFENSE ENVIRONMENT:	29
a. The target is not within the SAM envelope.	30
b. AAA activity has been identified within3 NM of the target.	32 32
c. HMG and small arms fire is anticipated.	33
10. DAMAGE OBJECTIVE: Destroy support facilities, stored ammunition and POL storage. Damage criteria damage to support and storage buildings. Damage level is 30%.	34 35 36 37
11. EFFECT ON NVN: Reduces direct light transport support capability to P/', and would deny light transport to 316th Infantry Brigade at Dien Bien Phu.	38 39 40
operational in 10-15 days through the use of temporary	41 42
The man desired	
Shaker, an roughton promise two terms	NG
A-A-B-2 TAB A to Annex A to Appendix A	

_							,
<u>s</u>	RET	Transfel	The superior	n ngamerana Ngamerana			
	13.	COLLATE	RAT. DAMAGI	124		The same of the sa	1 .
2/10/20		n - Idel	ht damage	to currou	nding are	a	
		P. VE T.	Population	THE PARTY OF THE P	Coaval	ties.	3
							Area 4
han e		M11	CIV MII	CLV	M11	rea Adjacent	CLV 5
	Managery	100	-	20 M TO THE SECOND SECOND			•
	itions.	*Casual	ities est	lmated und	er daylig	nt alert con-	. 7 8
		18 18 2 18 18 18	જિલ્લા કરો કરો છે. જો		RTIES:		9
7.						' 3 areas. Po	•
	ub-area	s (with	in 2 targe	et areas) .	h ave beer	delineated fave been com-	or 11
pı	uted fo	r each	sub-area	to show th	e effort	required to pons/sorties	13 14
۳ در مهادسته در ۱۳۰۵ د	equired	l overst	he target	are also	shown:		15
				achieve a over targ		evel of 30%,	16 17
en de la companya de La companya de la companya de	EAPON	113	250#	500# SNAKEYE	500#	750# - BOMB	18 19
T	rea B-1	-	aban nun managalina managalina	DIVINED	Marian Colland	DOM	20
(125' x	451)	9/1	5/1	17/2	10/2	21
	rea B-2 185' x	451)	9/1	5/1	18/2	11/2	22 23
	rea B-3	135')	14/1	7/1	19/2	11/2	24 25
A (rea C-1 600' x	120')	22/2	12/1	30/3	18/3	26 27
T	otal	- Profesional	54/5	29/4	84/9	50/9	28
Δ.	chieve	(2) Wea	pons/sort arget" re	ies operat quirements	ionally shown a	required to	30 29
			65/5	35/4	101/11	60/10	31
را ورود در اورود در درودودودودودودودودودودودودودودودودودو		(3) In	order to	achieve a over targ	demage 1	evel of 70%,	32 33
***************************************	eapons	POLCIES	required	Over care			22
	71.34 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100 mm	a garan Mari ti Angang dilakan Sa			
6					,		
		or miles				· • •:	
		and the	1.00				
11 L		5 (3.2)	19-14-12		1	S-10.	
.,(∫ <u>s</u>	e her e	7		2		#2	· - .
	1	****		A-A-B-3		TAB Anne	x A to
History of	1.00	AV.		10		· · · · · · · · · · · · · · · · · · ·	miry V
	Roviso	d by 15	th Note to	Holders)		#2 TAB Anne Appe	n+
a series (f)	. In the Contract of the	and Carried Section					

	250// 8NAKEYE 25/2 29/2 15/4 73/6	500#	500#	750#			
IPON	SNAKEYE	SNAKEYE	BOMB	* DOMD			
a B-1	56.58/2	1/1/2	2:50/6	33/0	. ر		g.
ea B-?	50/5	15/2	59/7	35/6			
ea B-3	45/4	23/3	62/7	37/6	5		
ea C-1	73/6	38/4	101/11	60/10	•		I
tal·	175/14	90/11	278/31	165/28	7		
rget" requ	175/14 Weapons/dort	les requir	ed to ac	hieve "over	9 9		
	1909/160	2918/24/1	1501/16	7 923/15/1	10		Į.
-15 PRO	1909/160 BABILITY OF /	CHIEVING 1	DESTRED D	AMACE LEVE	L: 11 12		Į.
76	me many street lives that	ومأدر وليدر			12		
			÷.	. jau		2.00	
				en de la companya de			
an ganggan salah di •• an di dilah di sa	(Main-part and Dyke)	en de la companya de					
	The second secon						
Land Alexander		د میدوراز را برای و در در از در از استیما مرابع جومت یز و					
نه وه ده		· Company		17			1
	A Complete C	A Section of the Control of the Cont	7	297482899 12 E Francisco 1	***	•	1.
	السيوني ودر و الوائد ال		1 1	en rumana i democra			1
ر. پرنهاسته که ست	engalis Kalangan ingka						
		•			•		4
e en	Men.						
			•	·. ·			
A CONTRACTOR	MINE STATE STATE OF THE STATE OF	n Karamanan menjah	,				1
							ł
		•					
		·					<u>.</u>
4							
		-					-
Twall.	1		The same of the sa	to and a			j.
Trans.		gripher in the state of the sta	100 miles	grand Markeya Narasa			1
= 33/17	The spinger of the		.3.15 •••• • 3. 15	A Comment of the Comm	# 2		į,
SE GET	The state of the s	Λ_Λ	_13_4		TAB Is to Annox A		Į.
		* 3 - 4 TA - 1 TA	- are remain	<i>1</i> 9	Ληποκ Λ Χίδησης	λο Λ	1
						•	



TARGET INFORMATION AND STRIKE DATA 1. TARGET NUMBER: 3 2. <u>BE NUMBER</u>: 616-8408 3. <u>IDENTIFICATION</u>: Ha No1/Gia Lam Airfield DATE OF INTORMATION: 23 May 1968 DATE OF INFORMATION: 25 May 1969 DATE OF PHOTOGRAPHY: 28 October 1967 DATE OF INTELLIGENCE REVIEW: 31 October 1968 5. LOCATION: 21-02-20N 105-53-26E, located 1.5 NM ENE of Ha The wilder 6. DESCRIPTION: The airfield has a 6550' by 80', NNE-SSW concrete runway (A), and a 5200' by 40' NW/SE concrete runway (B). Alert aprons are located at each end of the NNE-SSW runway (C) 10 Alert aprons are located at each end of the NNE-SSW runway (C) and (D). A barracks/supply area is located to the NW of the airfield (E). Area (F) contains a motor pool with 4 buildings and a support area with 6 support buildings. A POL storage area (G) is located at the NW end of the secondary runway and contains 3 revetted POL tanks. An operations and maintenance area (H) is located at the NE junction of the main and secondary runways. A storage support area (J) is located south of the secondary runway. Two concrete taxiways (K) measuring 3650' x 50' and 2350' x 50', respectively provide access to 28 aircraft revetments. The concrete taxiway (L) parallel to the main runway measures 6500' x 60' and provides access to 20 aircraft revetments. 22 access to 20 aircraft revetments. 7. SIGNIFICANCE: One of the principal transport airfields in NVN, and one of two airfields serving Ha Noi. Airfield has capability 24 for sustained jet fighter operations. 8. TARGET ENVIRONMENT: The Ha Noi/Gia Iam Airfield is about 5 NM NE of the Ha Noi/Bac Mai Airfield and 3 NM NE of the Ha Noi RR Classification yard. The airfield is across the Red River from Ha Noi on a coastal lowland. Near the airfield are rice fields and dwellings. It is estimated that 5,000 civilians live within one NM radius of the airfield. 28 33 9. DEFENSE ENVIRONMENT: a. . The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. 36 c. HMO and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Destroy above ground support facilities, underground POL storage, and parked aircraft. Damage criteria is structural damage to hangars and maintenance facilities and rupture of POL storage tanks. Damage level is 30%.

The search of th

SA RET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-A-C-2
Tab C to
Annex A to
Appendix A

.

and the second s	
	٠,
The state of the s	
St. 1994 Harris and the state of the state o	
	1
.or one of the principal transport bases in NVN, and one of the two	2
in the Ha Noi area. It also would deprive NVN of one of the four jet-capable bases.	3
The state of the s	· •
12. RECUPERABILITY: Repair of facilities would be enhanced by	5
the availability of construction equipment and personnel, and by	5
the extensive ground transportation system available for the rapid	. 7 8
movement of necessary material. Operational status probably	
could be attained within 10-15 days.	9
13. COLLATERAL DAMAGE:	10
Manager and the second	
a. Light damage to surrounding area.	11
Population Casualties*	12
Target Area Adjacent Area Target Area Adjacent Area	13
Mil. Civ. Mil Civ Mil Civ Mil Civ	14
500 1500 500 30 0 15 5	15
The property of the second	-,
"Casualtics estimated under daylight alert conditions.	16
1 I I TO DECOMPTED THE PONCY AND COMPTED	10
14. RECOMMENDED WEAPONS AND SORTIES:	17
This target complex is comprised of 11 areas. Four areas	18
including fourteen sub areas have been delineated for weapons	19
application. Weapons and sorties have been computed for each area.	20
To show the effort required to achieve the damage level prescribed,	21
total weapons/sorties required over the target are also shown:	22
The same of the sa	
(1) In order to achieve a damage level of 30%, weapons/ sorties required over target:	23 24
and the control of the second of the control of the	
The state of the s	
그 그는 사람들은 살아가면 하는데 그는 그는 그는 그는 그는 그를 보는 것이 없다.	
A CONTRACT OF THE CONTRACT OF	
- 1917年 - 1918年 - 191	

A-A-C-3
(Pevised by 17th Note to Holders)

Tab C to Annex A to Appendix A

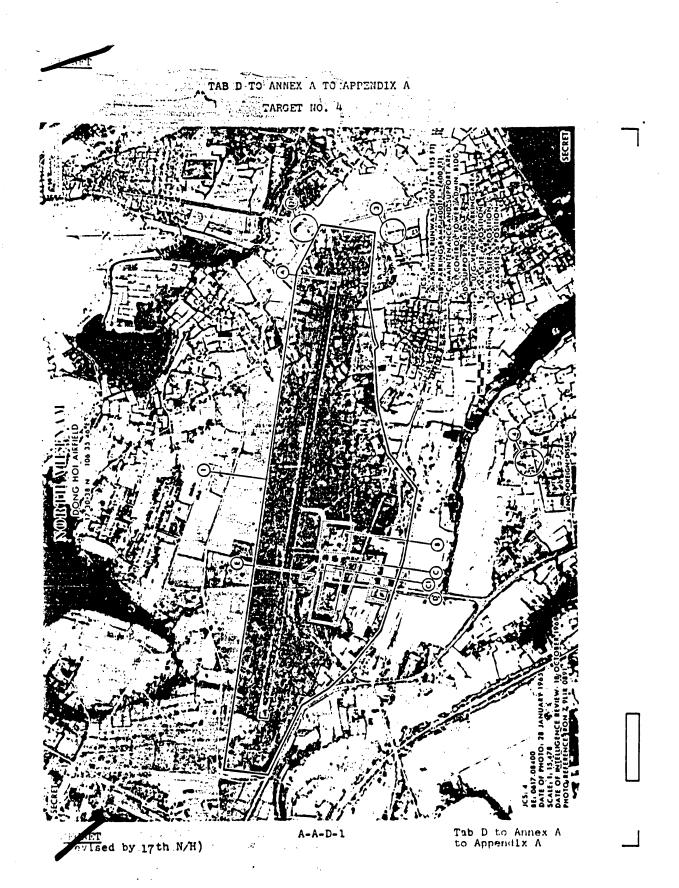
D TEL		Part Section 2		uniciales.	
VEAPON	250# SNAKEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	1
rea E-1 (575'x175')	12.0	11/1	24/3	13/2	3
rea E-2 (185'x115')	±.9/1	5/1	14/2	8/1	L
rea E-3 (900'x165')	27/2	15/2	33/4	18/3	9
rea E-4 (390'x145')	····14/1 ····	8/1	18/2	10/2	6
rea E-5 (575'x320')	3273	18/2.	28/3	15/3	7
rea-E-6 (455'x245')_		12/1	22/2	12/2	8
rea E-7. (690'x180')	23/2	13/1	27/3	15/3	9
rea F-1 (275'x90')	9/1	5/1	15/2	8/1	10
rea F-2 (310'x150')	12/1	7/1	17/2	9/2	11
rea G (230'x16')	29/2	20/2	82/9	60/10	12
rea H-1 (125'x125')	21/2	10/1	28/3	12/2	13
rea H-2 (275'x85')	12/1	6/1	20/2	10/2	14
rea II-3 (90'x65')	- 11/1	- 5/1	20/2	9/2	15
rea H-4 (255'x125')	10/1	6/1	15/2	8/1	16
COTALS	251/22	141/17	363/41	207/36	17
(2) Weapons/s over target" require	orties opera ments shown	tionally requabove:	uired to a	chieve	18
	301/26	169/20	436/49	248/43	20

A-A-C-4
Tab C to
Annex A to
(Revised by 17th Note to Holders)
Appendix A

				Andrews Andrews	
SECRET					
WEAPON .	S 250#	500# SNAKEYE or	500# BOMB or	750# BOMB	1 2
Area E-1	¥ 66/6 💥 💸	37/4	79/9	42/7	- 3.
Area E-2	29/2	16/2	47/5	25/4	4
Area E-3	91/8	50/6	111/12	59/10	5
Area E-4	45/4	25/3	61/7	33/6	6
Area E-5	109/9	60/7	93/10	50/8	7
Area E-6	74/6	40/4	73/8	79/7	8
Area E-7	78/7	43/5	91/10	48/8	9
Area F-1	29/2	16/2	51/6	27/5	10
Area F-2	41/3	23/3	56/6	30/5	11
Area G	98/8	67/7	277/31	200/33	12
Area H-1	-69/6	32/4	92/10	40/7	13
Area H-2	41/3	21/2	68/8	31/5	14
Area H-3	37/3	18/2	65/7	28/5	15
Area H-4	34/3	19/2	51/6	27/5	16
TOTALS	841/70	467/53	1215/135	679/115	
target" requi	weapons/sorti	es operationall n above:	y required t	o achieve "over	17 18
	1009/84	560/64	1458/16	815/138	19
15. PROB	ABILITY OF AC	HIEVING DESIRED	DAMAGE LEVE	<u>L:</u> 50%	20

A-A-C-5
(Added by 17th Note to Holders)

Tub C to Annex A to Appendix A



	į	
SPAET		
TARGET INFORMATION AND STRIKE DATA		
TARGET INFORMATION AND STRIKE DATA 1. TARGET NUMBER: 4 2. BE NUMBER: 617-8400 3. IDENTIFICATION: Dong Hoi Airfield	2	
3. IDENTIFICATION: Dong Hoi Airfield	٦ 	74
DATE OF TISD: 23 February 1971 DATE OF PHOTOGRAPHY: 28 January 1965 DATE OF INTELLIGENCE REVIEW: 15 December 1968	- 4 56 7	
5. LOCATION: 17-30-38N 106-35-46E, located 2.9 NM NNW of Dong Not.	8 9	
6. DESCRIPTION: The airfield has a 5,700' x 115' asphalt WNW-FSE runway (A) and a 400' x 400' parking area (B). A maintenance and support area (C), located S of the center of the runway include a multistories administration building with control tower (C-1) a weather station and 3 barracks. A support area (D) is also located S of the runway. Area (E) contains under ground wehicle parking.	10 11 12 13 14 15	
7. SIGNIFICANCE: Closest major North Vietnamese airfield to the South Vietnam border. Capable of supporting IL-14 (CRATF) aircraft and has limited capacity to support jet fighters (MIG-17 and 19). No evidence of current support of PL/VC operations.	17 18 19 20 21	
3. TARGET ENVIRONMENT: Airfield is located on open settled terrain approximately 2.9 NM NNW of Dong Hoi and 1-2 NM SW of the Gulf of Tonkin. Small civilian settlements are located on both sides of the E end of the airfield.	22 23 24 25	
9. DEFENSE ENVIRONMENT:	26	
The target is within the SAM envelope.	27	
b. AAA activity has been identified within 3 NM of the target.	28 29	
HMO and small arms fire is anticipated.	30	
ammunition, and parked aircraft. Damage criteria is structural damage to support buildings, parked aircraft, and damage to ammunition storage structures with destruction of contents. Damage level is 30%.	31 32 33 34 35	
capatility to the PL/VC and would deny limited support capability for jet light homber and fighter operations or recovery	36 37 38	
Tab D To Annex A To Appendix A Control of the Cont		
SP NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING		

SPIET				The second secon		
include con usage of th Tentage cou employed an gap service transportat recuperabil	trol tower and is installatic pled with mobile erected with bestruction ion systems, seity-time.	Destruction 1: POL area wo on for a peri 1: le air-groun 1: n 3 days to n or air stri ervicing this	od of 10-15 de communicat provide eme kes against field would	ions could be reency ston-	12345678	
	LLATEPAL DAMAC	E	Marie Control	Service Control of the Control of th	9	
	None		***		10	
	The state of the s	opulation	# = = + f :	sualties*	11	
Me	Rec Area	Adjacent Are	a Target Are	a Adjacent Ar	e a 12	
**************************************	Civ				iv 13	
	المعاقبة والمرابع المرابع والمواجع والمواجع المرابع	Carrier and Control	9 45		0 14	
1/i Dec	sualties esti	mated under o	laylight aler	t conditions.	15	
	OMENDED WEAP				16	
achieve the required "ov	damage level per target" are	rescribed, to also shown:	otal weapons	/sorties	18 19 20	
(1) corties requ	In order to a ired over targ	chieve a dam get:	nage level of	30%, weapons/	21 22	3.4 2.2
FAPON	250# SNAXEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	23 24	
Area C (915)					25	2921 113
) · 70/6	36/4	53/6	31/5	26 27	
215 <i>'</i>	الله المالة المستقولة والموار الأفرادية المستقولة والموار	11/1			28 29	
TOTAL,	91/8		22/2	13/2	36	195
 	Ween and January	200 C	75/8	44/7	31	1122 122 133
aidi.	Weapons/sorti requirements	- Prioutt EDOAE	ally required:	to achieve	32 33	avari.
	110/9	57/6		53/10	34	
corties requi	In order/to.a	chieve a dame	age level of	70%, weapons/		
	2504	TONE FOOT			36	
WEAPON	SNAKEYE OF	SNAKEYE O1	500# BOMB	750# or BOMB	37 38	
Area Charles	#235/207	121/13	179/20	105/18	39	
Area D	71/6	37/4	74/8	44/7	40	3.5
TOTAL TART	306/26:07	158/17	253/28	149/25	41	
		militaria sasa		The parties of the second	ij	en e
	(Rovised.	y 17th Note	to Holders)	750# BOMB 105/18 44/7 149/25 Tab D To A	Annex Lx A	
TENT			n nin ni garakenga kebalaja ini jeli kali i	* • • • • ·		٠.

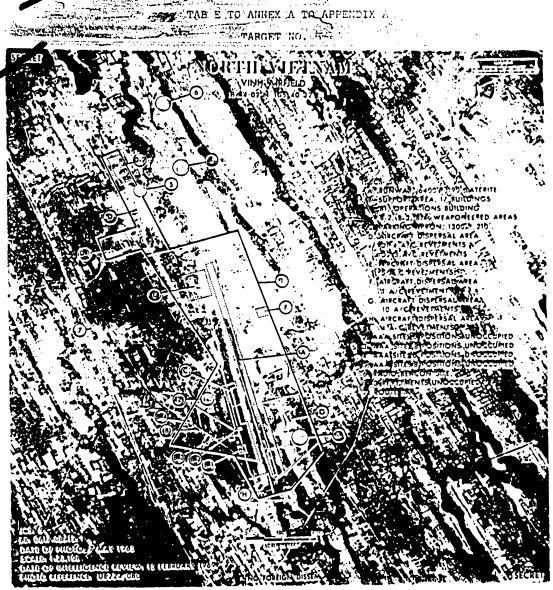
er-target requirements shown above:

179/30

15: PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50% 3 A-A-D-4

Tab D To Annex
A To Appendix A

ET



A-A-E-1

Tab E to Annex A

TARGET INFORMATION AND STRIKE DATA SHEET	
1. TARGET NUMBER: 5	1
2.3 B.E. NUMBER: 617-8412	2
3 IDENTIFICATION: Vinh Airfield	3
4. DATE OF INFORMATION: 13 September 1068	4
DATE OF TISD: 4 June 1969 DATE OF PHOTOGRAPHY: 7 May 1965	5
DATE OF INTELLIGENCE REVIEW: 15 February 1969	7
5. LOCATION: 18-44-02N 105-40-32E, located 3.5 NN NNW of Vinh.	8
6. DESCRIPTION: The airfield has a 6400' x 190', NNW-SSE laterite runway (A) capable of supporting limited jet fighter operations. A support area (B) contains 18 support buildings including an operations building (B-1). A parking apron 1300' x 210' (C) is located W of the runway and an aircraft dispersal area (D) NW of the runway contains 7 aircraft revetments. Aircraft dispersal areas (E), (F), (G) and (H) contain 20 aircraft revetments.	9 10 11 12 13 14 15 16
7. SIGNIFICANCE: The airfield is capable of supporting transport aircraft in squadron strength on a sustained basis, and has a limited jet fighter capability.	17 18 19
8. TARGET ENVIRONMENT: Target is located in the coastal plain area 3.5 NM NNW of the city of Vinh, and is adjacent to and E of the N-S railroad and Highway 1A. Headquarters Military Region IV (JCS Tgt #52) is located in the city of Vinh.	20 21 22 23
9. DEFENSE ENVIRONMENT:	24
a. The target is within the SAM envelope.	25
b. AAA activity has been identified within 3 NM of the target.	26
c. HMG and small arms fire is anticipated.	27
10. DAMAGE OBJECTIVE: Destroy parked aircraft. Damage level of at least 30% to be inflicted on support facilities.	28 29
11. EFFECT ON NVN: Deny the use of an air logistic support airfield and reduce the number of transport aircraft in an already limited aircraft inventory.	30 31 32
12. RECUPERABILITY: Storage and support area damage could be supplemented by tentage and temporary repairs. Adjacent road and rail system, if not interdicted, could provide shipment of required construction material. Drum POL could be used to provide necessary refueling. It is estimated that the airfield could become experienced in 5-10 days	334 335 336 338
Company of the second of the s	
A-A-E-2 Tab E to Annex A to Appendix A	

in the second section with the second	در میاد همه میستند. مدهموه مدید برا در از از دار از درای از درای از درای از درای در درای درای درای درای درای درای د	in Tarimat Bergia	Section 1915		į
	Day's Allerd Is	AND MARKET PARKET	200		
		AND MAN CONTRACTOR	THE RESERVE OF THE PARTY OF THE		
SPRET	The second secon	THE RESERVE OF THE PARTY OF THE	E. LAC STREET, STORES		
it a 13 COLLATI	ERAL DAMAGE:	and the same of th		<i>:</i> •	ı
The American Association of the	1900 13059	A P. C.	New York		2
6.74	Populati	on	Casualti	les* ···	3
Target	Area Adjacen	t Area Tar	get Area Adja	cent Area	4
Target	Civ Mil	CIV MIL	Civ Mil	Civ	5
150	0 > 75	250 ~ 9	0 (3	6
. *Estim	ated under dav	light alert c	onditions.		7
14. RECOMM	ENDED VEAPONS	AND SORTIES:			8
This t areas has been sorties have b required to ac sorties requir shown.	een computed in hieve the dame ed to achieve	or weapons app for this area. ge level pres over target	lication. We	apons and effort	9 10 11 12 13 14
sorties requir	ed over target	eve a damage		weapons/	15 16
WEAPON	250# SNAKEYE or	500# SNAKEYE	500# or BOMB or	750# BOMB	17 18
(140' x 30')	6/1	4/1	13/1	7/1	19 20
Area B-2 (125' x 40')	6/1	4/1	13/1	7/1	21 22
	10/1	6/1	12/2	9/2	23 24
Area B-4 (250' x 150')	11/1	6/1	16/2	8/1	25 26
TOTALS		20/4	58/6	31/5	27
(2) W	A -977	operationall shown above:	y required to	achieve	28 29
- Alexander	40/5	24/2	70/7	37/6	30
(3) I	n order to ach	ieve a damage	level of 70%	, weapons/	31 32
	wad avan targe	NT. 1	* i. . :		عر
	A STATE OF THE STA				
	No.		elli ligger Staggagele Martin		
The second secon	A Section of the sect		a state of the sta		
		A CANADA A A CANADA CANADA A C	grande de sale de la companya de la La companya de la companya de		
SP AET	de la constant	The same of the sa		•	
	(Revised	A-A-E-3 by 17th Note	to Holders)	Tab E to Annex A to Appendix A	
	(Revised	by 17th Note	to Holders)	Appendix A	·

SECOND	Andrew State Control of the Control	.
WEAPON A SNAKEYE FOR WEAPON A SNAKEYE OF A BOMB O	750# F = BOMB	1 2
SMALE	24/4	3
Area B-2 A 20/2 11/1	23/4	4
Area B-3 32/3 25 18/2 53/6	28/5	5
Area B-4 38/3 4 21/2 52/6	28/5	6
TOTAL 110/10 61/6 193/22	103/18	7
Area B-1 20/2 11/1 44/5 Area B-2 20/2 11/1 544/5 Area B-3 32/3 18/2 53/6 Area B-4 38/3 21/2 52/6 TOTAL 110/10 61/6 193/22 (4) Weapons/sorties operationally required to "over target" requirements shown above:	o achieve	8 9
132/12 73/7 232/26	101/22	10
132/12 73/7 232/26 15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVE	124/22	
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVE	<u>L:</u> 50%.	11
A second section of the second section of the second section of the second section sec		
And the second s		
and the same and the state of t		
A MARIE CONTRACTOR OF THE PARTY		
	•	
The second secon		
A Company of the control of the cont	The second secon	

A-A-E-4

Revised by 17th Note to Holders)

Tab E to Annex A to Appendix A

TAB E TO ANNEX A TO APPENDIX A

TARGET NO. 5

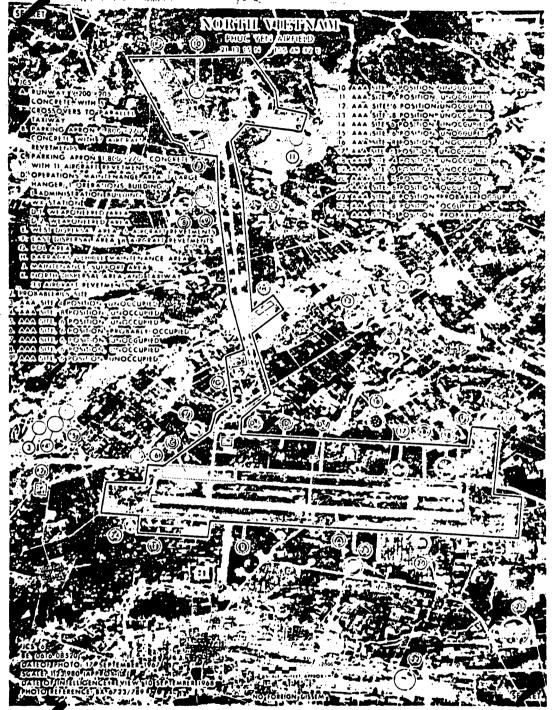
A-A-E-1a

Tab E to Annex A to Appendix A



TAB F TO ANNEX A TO APPENDIX A

TARGET NO. 6



SECRET Clevised by 17th N/H) A-A-F-1

Tab F to Annex A to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 6

2. BE NUMBER: 616-8520

3. IDENTIFICATION: Phus Yen Airfield

4. DATE OF INFORMATION: 25 December 1968

DATE OF TISD: 12 March 1969

DATE OF PHOTOGRAPHY: 17 September 1967

DATE OF INTELLIGENCE REVIEW: 25 December 1968 3 5. <u>LOCATION:</u> 21-13-15N 105-48-32E, located 12 NM N 6. DESCRIPTION: The airfield has a 9200' x 205' WNW/ESE concrete runway (A) and a parallel concrete taxiway on the N side of the runway. Five crossovers connect the taxiway and the runway. Two crossovers (one each approximately 1600' from the E and W ends of the runway) are configured for strip alert. A parking apron (B) on the ESE end of the parallel taxiway is 1800' x 270' concrete with 7 aircraft revetments. On the WNW end the 270', concrete, with 7 aircraft revetments. On the WNW end the parking apron (C) is 1800' x 270', concrete, with 11 aircraft revetments. An operational/maintenance area (D) N of the runway 17 18 revetments. An operational/maintenance area (D) N of the runway 17 contains 1 large hangar, 1 operations building, 1 administration 18 building and a weather station. The W dispersal area (E) has 6 19 aircraft revetments. The E dispersal area (F) contains 8 air- 20 craft revetments. A fenced POL storage area (G) consists of three 21 large vertical storage tanks (40' in diameter), two support buildings, 22 and a circular drive-thru road. NNE of the runway, paralleling 23 the long taxiway, are a Barracks/Vehicle area (H) and a maintenance/24 support area (J). The N dispersal area (K) contains 33 aircraft revetments. revetments. 7. SIGNIFICANCE: This target is the primary tactical airfield in NVN, and currently has MIG-15/17/21 jet fighters and IL-28 light jet bombers assigned. 8. TARGET ENVIRONMENT: Airfield is located in the comparatively flat, open, heavily cultivated area north of Ha Noi.
Numerous civilian populated areas are located within one NM of 30 33 the airfield. 34 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the 37 target. c. KMG and small arms fire is anticipated. 38 e nmo and small dim Maria relación Sentantes en esta la comunidad de Maria de sentencia de sentencia de la comunidad Maria de la comunidad de la c Tab F To Annex A to Appendix A

SPRET		ĺ
TIO. DAMAGE BJECTIVE: Destroy above ground support facilities, underground POL storage, and parked aircraft. Damage criteria is structural damage to hangars and maintenance facilities and rupture of POL storage tanks. Damage level is 30%.	1234	The Sales
tactical airfield, and would seriously reduce the air defense capability of NVN.	5 7	1
12. RECUPERABILITY: Repair of support facilities would be facilitated by the presence of construction equipment and personnel in the Ha Noi area, the rapid movement of which would be possible over the existing good ground transportation system. This airfield probably could be returned to operational status in 10-15 days.	8 9 10 11 12 13	والمرزوا والمستشف المساد
13. COLLATERAL DAMAGE:	14	
a. Mone	15	
b. Population Casualties*	16	l
Target Area Adjacent Area Target Area Adjacent Area	17	
Mil Civ Mil Civ Mil Civ Mil Civ	18	ļ
450 0 50 0 27 0 1 0	19	ł
*Casualties estimated under daylight alert conditions.	20	ļ
14. RECOMMENDED WEAPONS AND SORTIES:	21	ŀ
This is a large target complex comprised of 10 areas. Four areas (with two sub-areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:	22 23 24 25 26 27	
(1) In order to achieve a damage level of 30%, weapons/ sorties required over target:	28 29	
250# 500# 500# 750# WEAPON SNAKEYE SNAKEYE BOMB BOMB	30 31	The second second
Area D-1 (295'x230') 30/3 12/1 23/3 11/2	32 33	
Area D-2 (200'x80') 17/1 10/1 34/4 23/4	34 35	
Area G (420'x310') 29/2 24/3 38/4 34/6	36 37	
Area H 24/2 12/1 30/3 17/3	3 8 3 9	
Area J. (130'x2/10') 29/2 15/2 27/3 16/3	40 41	
Total 7 129/10 7 73/8 152/17 101/18	42	

Tab F To
Annex A To Appendix A
(Revised by 17th Note to Holders)

59

		The state of the s	PROPERTY (CONTRACTOR)		
"Over target"	requirements	shown abo	onally required ve: 183/20		2
sorties requi	In order to a	chieve a d	amage level of	70%, weapons/	4 5
WEAPON	250# SNAKEYE	500# SNAKEYE	500# BOMB	750# B0MB	ა გ 7
Area D-1	100/8	40/4	78/9	37/6	8
Area D-2	.56/5	33/4	113/13	78/13	?
Area G	97/8	80/9	129/1.4	114/19	10
Area: H	79/7	41/5	98/11	58/10	11
Area J	96/8	50/6	- 91/10	5 ⁴ /9	12
Total	428/36	244/28	509/57	341/57	13
(4) "over target"	Wearons/sorti	les operati s shown abo	onally required	i to achieve	14 15
	514/43	293/33	611/68	410/68	16
15. PROB	ABILITY OF A	CHIEVING DE	SIRED DAMAGE L	EVEL: 50%	17

A-A-F-4 Tab F To Annex A To Appendix A

(Revised by 17th Note to Holders)

er de ba er de l'alle er de l'alle er de l'alle er de l'alle er de l'alle





SPECIFIC TO THE MAN (MAN)

A-A-4-1

The Arthur Andrew A



The state of the s TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 7

.....

BE NUMBER: 616-8407

Al attended . William on the co

IDENTIFICATION: Ha Noi/Bac Mai Airfield

4. DATE OF INFORMATION: 2 October 1968

DATE OF TISD: 13 March 1969

DATE OF PHOTOGRAPHY: 4 October 1967

DATE OF INTELLIGENCE REVIEW: 27 December 1968

5. LOCATION: 20-59-29N 105-50-12E, located 1.2 NM SSW of Ha Noi, 1000' W of railroad to Ha Noi and 2.8 NM ENE of Ha Dong.

6. DESCRIPTION: Airfield has a single asphalt/concrete runway (A), 4100' by 120', oriented NNW/SSE. Two 660' by 170' concrete parking aprons (B) are located E of the NE end of the runway and adjacent to and S of the hangar/maintenance area (E). N of the runway is a housing/support area (C) containing 105 N of the runway is a housing/support area (C) containing 105 buildings. A headquarters area (D) consists of one headquarters building, 1 U/G command/communications bunker and 4 administration/support buildings. The primary maintenance/support area (E) lies NE of the runway and contains 4 hangars and 20 maintenance/support buildings. A revetted POL and support area (F) is located in the angle formed by the taxiway and the NE parking apron. A barracks area (C) contains 11 barracks, 3 messhalls and 6 support buildings, and is adjacent to a radio communications station (H). buildings, and is adjacent to a radio communications station (H). Located SW of the runway is a radar/support area (J) containing Located SW of the runway is a radar/support area (J) containing 6 radar revetments, I radar mound, and 9 support buildings.

Area (K) a barracks/support area includes 10 barracks, I messhall, I auditorium, 2 vehicle sheds and 15 support buildings. An explosives storage area (L) consists of 4 buildings and a security fence. Area (M) is a small arms training area. Barracks/support area (II) comprises 10 barracks, I messhall, I probable communications/control building and 23 support buildings. Communications Facility (P), includes abandoned explosive storage area and 3 revetted buildings and a vehicle maintenance/support area (Q). North northwest of the N end of the runway are 7 vehicle sheds, one barracks building and 7 support buildings. An explosives storage area (R) W of the N end of the runway is surrounded by a recurity fence and consists of 5 buildings.

7. SIGNIFICANCE: This target is one of two airfields serving Ha Noi and one of the major airfields in NVN. This airfield is not capable of supporting jet operations, but is suitable for use in the rapid movement of troops stationed in the Ha Noi area.

8. TARGET ENVIRONMENT: Airfield is located in a flat, open, heavily cultivated area S of Ha Noi. Numerous civilian populated areas are located around the airfield within a one NM radius. There are numerous storage, barracks, and supply areas near the airfield.

Tab G To Annex A To Appendix A

2

5

8

10

11

> > 37

44 45

(Revised by 17th Note to Holders) KOVADOU OU

62

DEFENSE ENVIRONMENT:

a. The target is within the SAM envelope.

b. AAA activity has been identified within 3 NM of the target was a small arms fire is anticipated.

to the property of the state of

10. DAMAGE OBJECTIVE: Destruction of hangars, maintenance

and support facilities. Damage level is 30%.

11. EFFECT ON NVN: Reduction in the ability to provide logistical support to military and civil air units, and in the capability to provide air movement to ground forces in the Ha Noi

12. RECUPERABILITY: Availability of construction personnel and equipment on site would be a major factor in recuperability of installation not only in runway renair but affording temporary rehabilitation of support facilities. Close proximity of civilian resources to include manpower would contribute to early recuperability. Transportation system servicing facility would facilitate movement of required resources. Operational recuperability could probably be accomplished within 10 days.

COLLATERAL DAMAGE:

- , `	ر از دون	one						
	b •		Populat	ion		Casua	lties*	
•	Targe	t Area	Adjacent	Area	Target	Area	Adjacent	Area
	Mil	Civ	Mil	Civ	M11	Civ	Mil	CIV
٠	150	0 -	.300 ···	0	15	0	3	O

"Casualties estimated under daylight alert conditions...

114. HACOMARINED AND AND STREET

This target is comprised of 16 areas. Eleven areas have been delineated for weapons application. Weapons and sorties have teen computed for each area. To show the effort required to schieve the damage level prescribed, total weapons/sorties required over the target area also shown:

(1) In order to achieve a damage level of 30%, weapons/ sorties required over target:

Tab G To Annex A To Appendix Λ

6

7

11

12 13 14

20

30

3.2

A-A-G-3

(Revined by 17th Note to Holders)

KET				e de la companya de l	
MEVIOU	CNAKEYE	or SNAKEYE o		750# Bomb	1 2
Aren (1-)) (1351 y 3401)	120/9	54/6	77/9	45/8	Ĭ,
Areu D-1: (1020'x505')	172/14	75/9	97/11	49/8	5
Ares 0 (660'x150')	27/2	14/2	37.4	20/3	7
Area 10.7 (43'x37')	3/1	4/1	16/2	10/2	î
Area 7 (335'x245')	26/2	13/1	24/3	15/3	1
Area K (830'x18!)	37/3	19/2	41/5	24/4	1
Area L (345'x120')		38/4	105/12	105/18	
Area !! (1320'x250')		37/4	64/7	33/6	
Area P (2:0'x46')	2/1	5/ 1 .	18/2	11/2	;
Area 0 (600.'x340')	40/4	25/3	38/4	23/4	
Area R (235'x1'0')		31/3	68/8	68/11	
Total	575/48	315/34	581/67	408/69	
(2)	Weapons/so	rties operatio nts shown abov	nally required	to achieve	
01.1 1.18.1	•		698/78	490/82	
sorties requ	In order t	o achieve a da	mage level of 7	70%, weapons/	

A-A-G-4 A To
(Revised by 17th Note to Holders) Tab G To Annex A To Appendix A

では、「一般のでは、「一般のでは、「一般のできる」という。 では、「一般のできる」とは、「一般のできる」という。 できる。「一般のできる」という。「一般のできる」という。「一般のできる」という。 「一般のできる」という。「一般のできる」」という。「一般のできる」という。「一般のできる」」という。「一般のできる」という。「一般のできる」という。「一般のできる」」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる」という。「一般のできる。」という。「一般のできる。」という。「一般のできる。」という。「一般のできる。」という。「一般のできる。」
「「「」」」という。「「」」という。「一般のできる。」という。「一般のできる。」

「我のできる。「一般のできる。」
「「「我のできる」」という。「一般のできる。」
「「我のできる」」という。「一般のできる。」
「「我のできる」」という。「「我のできる」」という。「「我のできる」」という。「「我のできる」」」という。「「我のできる」」」
「「我のできる」」」
「「我のできる」」」
「「我のできる」」
「「我のできる」」」
「「我のできる」」」
「「我のできる」」」
「「我のできる」」
「「我のできる」」」
「我のできる。」
「我ので、「我のできる。」
「我のできる。」
「我のできる。」
「我のできる。」
「我のできる。」
「我のできる。」
「我のできる。」
「我

The second of the second

RIT		110	1		
Area C-D	376/30	183/20	259/29	152/25	1
res D-E	581/48	252/88	326/36	163/27	2
Area Outside Santa	91/8	47/5	111/12	65/11	3
Area H	26/2	13/1	54/6	32/5	4
Area J	85/7	44/5	81/9	48/8	5
Area K	125/10	64/7	136/15	80/13	6
Area L	127/11	127/14	353/39	353/59	7
Area N	243/20	125/14	216/24	127/21	8
Area P	30/3	15/2	. 60/7	35/6	9
Area Q	163/14	84/9	127/14	75/13	10
Area R	105/9	105/12	229/25	229/38	11
!'otal	1932/162	1059/117	1952/216	1359/226	12
(4) Wes	pons/sorties oper ents shown above	rationally requ	uired to ach	ieve "over	13 14
	2319/193	1271/141	2343/260	1631/272	15
15. PROBAB	LITY OF ACHIEVIN	G DESIRED DAMA	GE LEVEL: 5	0%.	16

A-A-G-5

(Added by 17th Note to Holders)

Tab G To Annex A To Appendix A

TARGET NO. 8



SP_RET Revised by 16th N/H) A-A-II-1

Tur H to Annex : to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 8	1
And the state of t	2
2. BE NUMBER: 616-8405	-
3. IDENTIFICATION: Hai Phong/Cat B. Airfield	3
An	
4. DATE OF INFORMATION: 15 October 1968	4
DATE OF TISD: 5 August 1966	5
DATE OF PHOTOGRAPHY: 4 October 1967	6
DATE OF INTELLIGENCE REVIEW: 18 November 1968	7
a company to to observe 42 445 leasted 3 5 MM SE of center	8
5. LOCATION: 20-49-01N 106-43-46E, located 3.5 NM SE of center of Hai Phong, 0.5 NM WNW of Cat Bi, and 1.6 NM W of Culf of Tonkin.	9
of Hat Phong, 0.5 MM will of Car bi, and 1.0 MM Will of Car bi	•
6. DESCRIPTION: This airfield has a 7,900' by 170' concrete/asphalt	10
runway (A) oriented NE/SW; a former 1,700' by 150' NW/SE concrete	11
runway which has been converted into a 1,300' by 300' parking apron (C);	12
and a 2,200' by 300' parking apron (D) N of, and connected by a taxiway (B)	13
and 4 access links to the main runway. There are 3 hangars, 2 of which	14
(175' by 140') are adjacent to the N parking apron (E), and the third (F)	15
(80' by 65'), the roof of which probably is dismantled, is located adjacent	16
to the parking apron formed from the old runway. An administrative/	17
maintenance area (G) containing 30 buildings (average size 40' by 78')	18
is located just N of the mid-area of the runway, and just to the E of this	19
area is a FOL storage area (H) of unknown capacity. A second POL storage	20
area (L), also of unknown capacity, is located N of the administrative/	21
maintenance area, and to the SE is a probable motor pool area (K).	22
Additional facilities include a shop area (E) with 3 90' by 30' buildings	23
adjacent to the N parking area; an aircrast maintenance area (P) E of the	24
S parking area; and a control tower (N) located between the administrative/	25
maintenance area and the runway. The aircraft revetments (J and Q)	26
previously noted N of the W end of the runway, and probable revetted	27 28
ammunition storage (M) N of the center of the runway, apparently have been	_
abandoned.	29
7. SIGNIFICANCE: Hai Phong/Cat Bi Airfield is one of the two jet	30
fighter bases serving Hai Phong. The airfield has the capability of supporting	31
jet fighters on a limited basis.	32
8. TARGET ENVIRONMENT: Airfield is located in the flat, open,	33
Tonkin delta area, along the Lach Tray River. Civilian populated areas	34
are adjacent to the N and E edges of the airfield. Hai Phong/Cat Bi	35
Airfield is an element of an extensive military complex in the Hai Phong	36
Alliana ta an esement de an estadores y an estadore	37

A-A-H-2

(Revised by 16th Note to Holders)

Tab H to Annex A to Appendix A

	April 1985	readings of the control of the contr	والمراجعين والما				
9. DEFENSE EN			ر از				
DEFENSE EI				Section (Section)		and the second s	. 1
H he targe	et in withi	n the SAM	nvelope.	Tana di Santa	ernaue Africa Laterrania	.	2
b. AAA acti	vitu han h	The Artist		Market .	4 .		
The state of the s		een teentiit Varioo Valda	nu within	19 MMC	tne targe		3
c. IIMG and	small ar	ms fire is a	nticipate	d.			4
10. DAMAGE OF	3.JECTIVE	Sta Destruct	ion of ab	ovegroun	d support	t facilities	5
and parked aircraft. and maintenance faci	- Dainage litica.∵ D	Criterion is	structu:	ral dama	ge to han	gars	6 7
	1.11	RADILLE	:				•
11. EFFECT ON VC and capability to	NVN: R	educed air	transpor	t logistic	support	to PL/	8 9
				_			7
12. RECUPERAL	BILITY:	Recuperabi	lity from	a 30% da	amage lev	vel to	10
facilities could probab support facilities cou	ild probab	ained in iU Ny be-repai	cays. T	emporar mited usa	y storage	e and	11 12
same frame. Damag	e to POL	storage an	d servici	ng facili	ties would	d limit	13
aircrast operations.	Military	manpower	is availa	ble from	the infan	try	14
units within the area	for recup	erability ef	forts. F	Repair eq	uipment i	from	15
military and civilian and shovel forces.	sources	within imme	ediate vi	cinity cou	ild augme	ent pick	16 17
			·				
13. COLLATER	AL DAMA	GE:					18
a. Insignific	ant		•	• •			19
b. Po	pulation			Ca	suaities	•	20
b. Po		ent Area	Targo	Ca et Area		nt Area	20 21
		ent Area	Targo Mil				
Target Area	Adjace			et Area	Adjace	nt Area	21
Target Area	Adjace Mil 250	Civ 1500	Mi1 150	Civ	Adjace Mil 3	nt Area Civ	21 22
Target Area Mil Civ 2500 0	Adjace Mil 250 mated unc	Civ 1500 der daylight	Mil 150	Civ 0 onditions.	Adjace Mil 3	nt Area Civ	21 22 23
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN	Mil 250 mated unc	Civ 1500 der daylight APONS ANI	Mil 150 alert co	ct Area Civ 0 inditions.	Adjace: Mil 3	nt Area Civ 15	21 22 23 24 25
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN This targe	Mil 250 mated unconded we will be compared to compare the compared to compared the compared to compare the compared to compare the compared to compared the compared the compared to compared the compared to compared the compared the compared to compared the compared the compared to compared the compared to compared the compared to compared the compared the compared to compared the compared the compared to compared the compared the compared to compared the com	Civ 1500 der daylight APONS ANI prised of 15	Mil 150 alert co	Civ 0 onditions. ES: Six area	Adjaces Mil 3	nt Area Civ 15	21 22 23 24 25
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN	Mil 250 mated uncondenses with the companion of the compa	Civ 1500 der daylight APONS ANI prised of 15	Mil 150 alert co D SORTH areas, ortics ha	Civ 0 inditions. ES: Six area ve been o	Adjace: Mil 3 s have be	civ 15 cen delineate	21 22 23 24 25
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN This target	Mil 250 mated uncondenses with the complete of	Civ 1500 der daylight APONS ANI prised of 15 upons and so	Mil 150 alert co D SORTII areas. ortics hadeve the	Civ 0 onditions. ES: Six area ve been oprescrib	Adjace Mil 3 s have be computed ed damag	civ 15 cen delineate	21 22 23 24 25 d 26 27
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN This targe for weapons applicat area. To show the e total weapons/sortie	Mil 250 mated uncontrol NDED WE et is compion. Wea	Civ 1500 der daylight APONS ANI prised of 15 pons and serviced to ach d over the 1	Mil 150 alert co D SORTII areas, orties hadieve the	Civ 0 onditions. ES: Six area ve been of prescribe also sh	Adjaces Mil 3 s have be computed ed damag own:	Civ 15 cen delineate for each ge level,	21 22 23 24 25 d 26 27 28 29
Target Area Mil Civ 2500 0 *Casualties esti 14. RECOMMEN This targe for weapons applicat area. To show the e total weapons/sortie	Mil 250 mated und NDED WE et is complion. Wealtfort require s require	Civ 1500 der daylight APONS ANI prised of 15 upons and so	Mil 150 alert co D SORTII areas, orties hadieve the	Civ 0 onditions. ES: Six area ve been of prescribe also sh	Adjaces Mil 3 s have be computed ed damag own:	Civ 15 cen delineate for each ge level,	21 22 23 24 25 d 26 27 28



A-A-H-3
(Raylaci by loth Note to Holders)

Tab H to Annex A to Appendix A

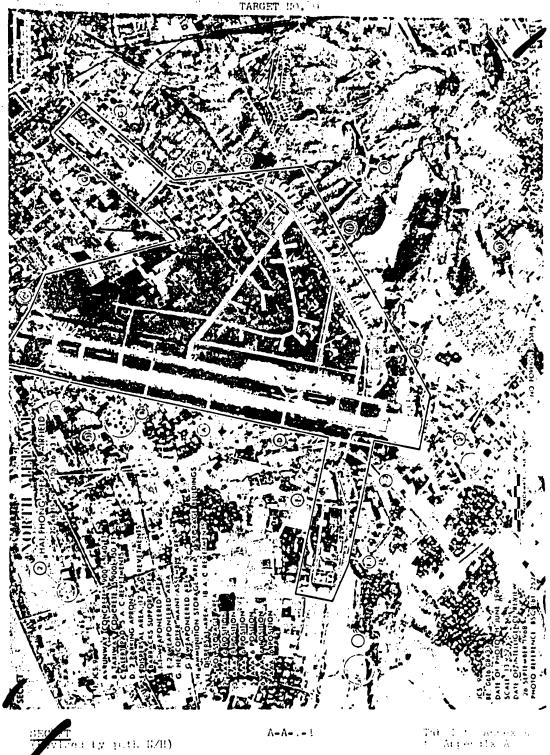
SPOKET			NAME OF THE PARTY	tv.	
	January .	1	British Street	President and the second	
Weapon:	SNAKEYE O	SNAKEYE	3 500# 3 HOMB A=	750#	1 2
	A Company	6	TEOME OF	The state of the s	2
Area E 1951	7/1	5/1	9/1	6/1	3
				A de la companya de l	7
(435' x 280')	25 25 33/3	17/2	29/3	17/3	5
		The state of the s		* **	ŭ
Mren G	77/6	40/4	66/7	39/7	7 8
The state of the s	Allen - Control				
Area H-1 (360' x 130')	20/2	16/2	42/5	36/6	9 10
	Aller Control		Marian Marian		
Area L-1 (490' x 330')		39/4	61/7	53/9	11 12
The second of	n getran etters å lig. Særeget en			,	
Area P-1 (480' x 155')	22/2	12/1	. 27/3	16/3	13
Total:	209/18	129/14	234/26	167/29	15
(2) Weapons/so	rties operati	onally require	ed to achieve "over"	16
target" requi	rements shown	above:			17
	251/21	155/17	281/31	201/34	18
(3) In order to a	chieve a dan	nage level of	70%, weapons/	19
	red over targe			•	20
	250#	500#	500#	750#	21
Weapon:	SNAKEYE or	SNAKEYE C	r BOMB or	ВОМВ	22
Area E	23/2	14/2	29/3	19/3	23
A 17	110/9	£9/4	06/11	67/10	3.4
Area F	110/9	21/0	96/11	57/10	24
Area G	259/22	133/15	221/25	130/22	25
Area H-1	67/6	53/6	140/16	121/20	26
.			1	17/120	
Area L-1	166/14	131/15		176/29	27
Arca P-1	112	38/4	90/10	53/9	28
Total:	699/59	426/48	780/88	556/93	29
(4) Weapons/so	rties operati	onally require	ed to achieve "over	30
target! requi	rements shown	above:		and the state of t	31
70.2	839/70	512/57	936/104	668/111	32
15. PRO	BABILITY OF	ACHIEVING	DESIRED DA	MAGE LEVEL: 50%.	33

A-A-K-4 (Revised by 16th Note to Holders)

Tab H to Annex A to Appendix A



TABLE TO ANNEX A TO APPENDIX A





A ...

TARGET INFORMATION AND STRIKE DATA

AND DEATH DATE	
1. TARGET NUMBER: 9	1
2. BE NUMBER: 616-8/133	2
3. IDENTIFICATION: Hat Phong/Kien An Airfield	3
N. DATE OF INFORMATION: 13 September 1968	1,
DATE OF TIED: 5 December 1968	5 6
DATE OF INTELLIGENCE REVIEW: 26 September 1968	7
E TORANGON, ON HU TON LOC OF HAR THROUGH O OF HIM	o

- LOCATION: 20-48-19N 106-36-43E, located 3.9 NM SW of Hal Phone, 1.8 NM W of Klen An and Junt S of Lach Tray (river).
- 6. DESCRIPTION: Airfield has a single 5900' x 1/10' NE/SW concrete runway (A) with a parallel 5900' x 50' concrete tunway (A) with a parallel 5900' x 50' concrete taxiway (B) on the SE side of the runway. There are six crossovers from the runway to the taxiway, and two concrete parking ramps (C) are located adjacent to the SW portion of the taxiway. A 50' concrete link taxiway with 18 aircraft revetments along the S side (D), extends E from the SW end of the parking apron, connecting to the S end of a N/S taxiway serving an aircraft parking area which has 12 aircraft revetments (E). parking area which has 12 aircraft revetments (E). A possible ammunition storage area (F) is located just N of the E end of the link taxiway, and a support area (C), containing approximately 24 support buildings, is located W of the SW end of the runway. Underground POL storage (H) is believed to be located just E of the SW end of the runway. ...
- SIGNIFICANCE: This airfield is utilized primarily by light transport aircraft, and is one of two such airfields in the Hai Phong area. The length and construction of the runway would indicate suitability for jet fighter operations, but the absence of maintenance and support facilities, and a history of an unstable runway base (the runway apparently is built on fill, requiring frequent runway repairs), make it unsuitable for sustained jet fighter activity.
- 8. TARGET ENVIRONMENT: Airfield is located in the flat, open, Tonkin delta area, along the Lach Tray (river). Civilian populated areas occur on the NW side and at both ends of the runway. Hal Phong/Klen An Airfield is one part of an extensive military complex in the Hai Phong area. Within this area are reported the headquarters and some operational elements of the 350th Inf Bde, and possibly two Infantry Regts.

SF ACT -NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-A-I-2

TAB I to Annex A to Appendix A 12

13 15 16

17

21

24

28

30

ઉંટ

30

40

42

(Revised by 15th Note to Holders) The same of the sa

SE RET AND	
DEFENSE ENVIRONMENT	
9. DEFENSE ENVIRONMENT	1
a. The target is within the SAM envelope.	2
b. AAA activity has been identified within 3	i i
NM of the target.	
C. IMM and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Destroy aboveground support	5
lacilities and parkod aircraft Damage criteria is	6 7
structural damage to maintenance facilities. Damage level is 30%.	8 9
11. EFFECT ON NVN: Reduction of air transport and	10
logistic support capabilities and denial of limited support capability for jet fighter operations.	11 12
12. RECUPERABILITY: Repair of support facilities by	13 14
presence of construction equipment and personnel in the area. Ground transportation in area is sufficient for	15
required movement of material. Operational recuperability could probably be effected within 10 days.	15 ··· 17
13. COLLATERAL DAMAGE:	18
a. Insignificant	19
b. Population Casualties	80
Target Area Adjacent Area Target Area Adjacent Are	ea 21
Mil Civ Mil Civ Mil Civ Mil Ci	lv 22
	2 23
*Casualties estimated under daylight alert con- itions.	24 25
14. RECOMMENDED WEAPONS AND SORTIES:	26
This target is comprised of 10 areas. Three areas (with 2 sub-areas) have been delineated for weapons application. Weapons and sortles have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sortles required over the target are also shown:	27 28 29 30 31 32
(1) In order to achieve a damage level of 30%, weapons/norties required over target:	33 34
WEAPON SNAKEYE SNAKEYE BOMB BOMB	35 36
Area F-1 (13501x/1301) (118/10) (11/7 82/0 48/8	37 38
Area F-2 ** (615'x211') 33/3 17/2 33/4 20/3	39 40
Area O	41 42
Area H 220 20 20 20 20 20 13/5 13/7	43 44
Area H (332'x225') 27/2 29/2 13/5 13/7 Total 196/17 110/12 18/1/21 12/1/20	45
	-
A-A-I-3	AB I to nnex A to ppendlx A

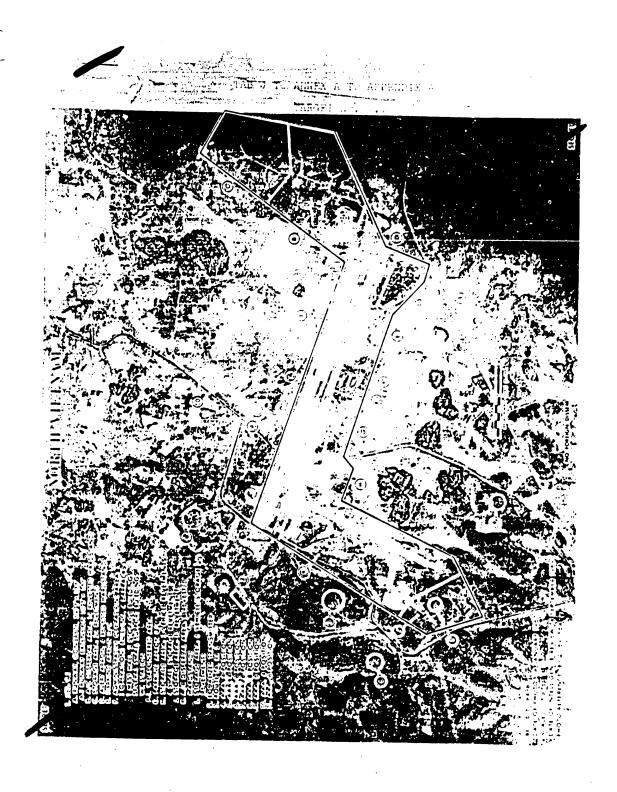
AZZ.

			And the state of t	
acute ABW OABL	target req	ulrements	7.8" - 1	1 2
	236/20	132/15	221/25 149/25	3
weapon/sortie	D'OYGAP to a	chieve a		Д
Area F-1-	298/33	20/1/53	277/31 162/27	6
Area F-2	111/9	57/6	111/12 65/11	7
	77/6	31/3	87/10 /1/7	8
Area H	711/6	74/8	144/16 144/24	9
Totals	660/54	336/40	619/69 412/69	10
achieve "over	eapons/sorti target" req	es operati ulrements	onally required to shown above:	11 12
15. PROBA	BILITY OF AC	HIEVING DE	SIPED DAMAGE LEVEL:	13 14

Annex A to Appendix A

Λ-Λ-I-4

(Revised by 15th Note to Holders)



.....

The Arthur Arthur A Charpenists A

TARGET INFORMATION AND STRIKE DATA

and the contract of the SHOP of the third High the CNA contract of the contrac	
1. TARGET NUMBER: 9.1	
2. <u>BE NUMBER</u> : 616-8438	
3. IDENTIFICATION: Kep Airfield	·
4. DATE OF INFORMATION: 12 Seconds 100	
27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DATE OF PHOTOGRAPHY: 18 January 1967 DATE OF INTELLIGENCE REVIEW: 4 September 1968	į
5. IOCATION: 21-22 27 10C 1C 27	
the ha hor a lang son Railroad.	į
o. DESCRIPTION: An extensive runway improvement program completed	10
WAY (A). Improvement in the state of the man concrete mine	11
craft. An advance is presently being utilized by MTG atva	12
reverments. South of the contains 24	14
(D) containing 4 revetted hardstands. A parking apron (E). S of the	16 16
Contains 1 one metales but it is a seminated action/operations area (F)	18
Parking area (G) is under constitutings and a weather station.	19 20
small storage reverments and 4	52
sircraft dispersel area (v) contains 13 revetments. An	23
area (L) S of the eastern end of the runway has 6 vehicle/storage	25
7. SIGNIFICANCE: This airfield presently is utilized by MIG jet fighters. This sirfield represents the Court of the Court	26
jet fighters. This cirfield represents the first known deployment	27 28
of fighter aircraft to other than Phuc Yen. The facility is one of the major airfields in North Vietnam.	29
8. TARGET ENVIRONMENT. The advice as	30
intensively cultivated terrain. Small civilian settlements are	31 32
scattered throughout the area and a canal abuts the SW end of the	33 34
9. DEFENSE ENVIRONMENT:	
a. The target is within the SAM envelope.	35
b. AAA activity has been identified within 3 NM of the target.	36
c. HMG and small arms is anticipated.	37
and to anticipated.	38

NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-A-J-2

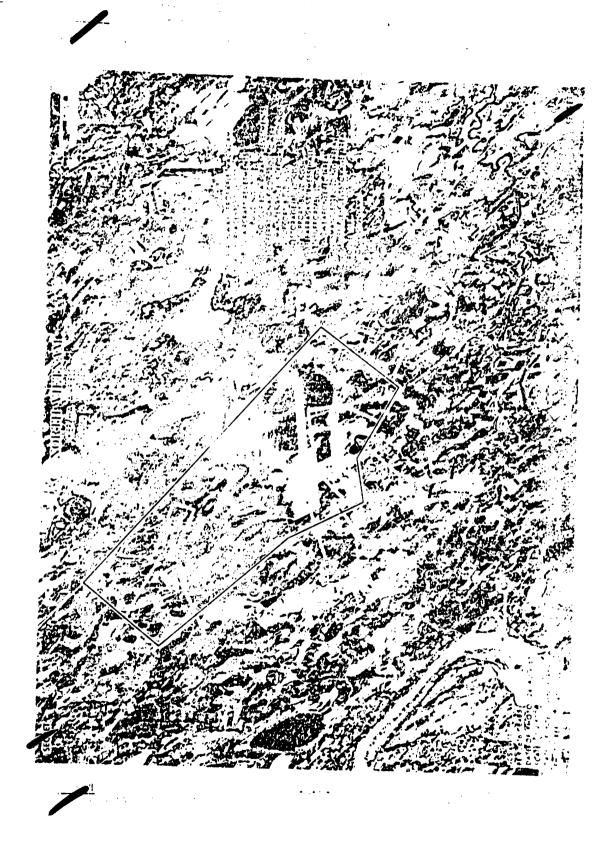
Tab

Tab J to Annex A to Appendix A

(Revised by 17th Note to Holders)



				J-1 - 1		•				
personn	el casu	OBJECTIV ngs, barr alties.	Damage le	vel is	30 per	cent,	with acc	ompany	ing	1 2 3
air def and pos	EFFECT ense car sibly in	ON MVN: pability a ncreasing	Damage t and would the capa	bliity	of this	s airi	felative field.	to 1mp	roving	4 5 6
install	ation f	RABILITY: on of runv rom 5 to 7 cy repairs	7 daya	Tracas	oly pred	crude	storage use of t could pr	facili his obably	ties	7 8 9 10
13.	COLLATI	ERAL DAMAG	E:		·					11
	a Nor	ne								12
• • •	b.		Population	on		Ças	ualties*			13
٠.	Target	Area -							a	14
	Mil .				M11		M11	Ci		15
•	500	0	50	0	30.	0	1		0	16
	*Casual	ties esti	mated und	ier da	ylight s	lert	conditio	ns.		17
14.	RECOMME	NDED WEAP	ONS AND S	ORTIE	<u>s</u> :					18
required	ies hav i to ach require	rget is class been do been continued the character of the contracter of the contract	emputed for damage le	r this evel pare a	weapons s area. rescribe lso show	appli To sed, to	cation. now the tal weap	Weapo effort ons/		19 20 21 22 23
sorties	(1) In require	order to d over ta	achieve t rget:	he dar	mage lev	rel of	30%, we	apons/		24 25
WEAPON		250# SNAKEYE	or	500# SNAK	EYE o	r	500# BOMB	or :	750# Bome	26 27
Area F-1 (220' x	400')	• • •					26/3		15/3	28 29
target"	(2) Wearequire	pons/sort ments sho	ies opera wn above:	tional	lly requ	ired	to achie	ve "ov	er	30 31
		32/3		16/2			32/4		18/3	32
	. cdarre	order to d over ta	rRec:		nage lev	el of	70%, we	apons/		33 34
		0077		44/5		į	86/10		51/9	35
target"	(4) Wearequire	pons/sort ments sho	ies opera wn above:		Section 1	ired	to achiev	ve "ov	er	36 37
	46 . 1844 . Sec. 4.9	104/9	• :	53/6			104/12		52/10	38
15.	PROBABI	LITY OF A	CHIEVING		D DAMAG	E LEV	<u>EL</u> : 50%.	•		39
SECTI		The state of the s	-		4					
Cartiner p. 17 per		There is the property of the p	A	-A-J-3) <u></u> ;			ab J to		
٠.	in the second	(Revi	sed by 17	th Not	e to Ho	lders		nnex A ppendi:		





TARGET INFORMATION AND STRIKE DATA TARGET NUMBER: 9.11 BE NUMBER: 616-8485 IDENTIFICATION: Kep Ha Airfield . 3 DATE OF INFORMATION: 12 August 1966 DATE OF TISD: 6 August 1969 DATE OF PHOTOGRAPHY: 24 August 1965 5 6 DATE OF INTELLICENCE REVIEW: 31 July 1969 LOCATION: 21-22-52N 106-39-47E, 2.5 NM E of Kep Ha, and 8 22, 5 NM E of Kep Airfield, on S side of Route 13B. 9 6. DESCRIPTION: Airfield runway (A) is approximately 3250' x 100' oriented 10 NE/SW. Runway surface is probably macadam. Facility improvements since 11 July 1965 include 12 U-shaped revetments completed on S side of runway (B), and 12 3 completed on N side (D). Four revetments on S side and four revetments on N side of runway are under construction. Revetment taxiways are also under con-13 14 struction. Extensive grading and construction scars are located on both sides of 15 SW end of runway. Support facilities located on the NNW side of the runway consist 16 of a control tower, radio facility, two maintenance/support buildings and 2 other 17 support buildings (E). To the W of the runway are 2 storage and 2 support buildings 18 (F), 3 barracks, a mess hall, and a support building (G), a possible fuel storage 19 area (J), and an area with dismantled buildings (H). Southeast of the SW end of the 20 runway is an unidentified building (C). This airfield is used by single-engine trans-21 7. SIGNIFICANCE: Present construction activities seem to be inconsistent with 23 the runway length. At least 10 of the new aircrast revetments are configured for jet 24 aircraft.yet the runway is not capable of supporting jet aircraft. Probably the cur-25 rent improvement program is limited to providing additional dispersal facilities 26 for the transport aircraft. Probably the transport and helicopter activities of Kep 27 Airfield will be transferred to Kep Ha. 28 8. TARGET ENVIRONMENT:: This airfield lies in an intensively cultivated valley E of the Red River Valley. Numerous small civilian settlements and villages 29 are scattered throughout the surrounding territory. 9. DEFENSE ENVIRONEMENT: 32 a. The target is within the SAM envelope. 33 b. AAA activity has not been identified within 3NM of the target. c. HMG and small arms fire is anticipated. 35



A-A-K-2

10. DAMAGE OBJECTIVES: Damage criteria is structural damage to support

buildings and storage structures in the area. Damage level is 30%.

(Revised by 17th Note to Holders)

Tab K to Annex A to Appendix A 36

SPERET

11. EFFECT ON NVN: Destruction of these facilities would probably have little effect on the NVN air capability since this has little or no tactical or strategic air significance.

12. RECUPERABILITY: This field could be returned to operational use within 1 - 2 days after bomb craters are filled. With 30% damage to facilities, no greater delay could be expected than 1 - 2 days since there is adequate space near the field to house personnel under canvas and continue operations. It is probable that most of the workers are housed at nearby Kep Ha barracks.

13. COLLATERAL DAMAGE:

• None -								10
5.	Popula	tion				Casualtie	g \$	11
Target	Arca		Area	Target	Area	Adjacent	Area	12
MI1 25	Civ:	Mil = 50	Clv	Mil 2	Civ 0	Mil 1	Civ 0	13 14
#Casua	liies es	timated un	der day	light alert cor	ditions	٠.		15

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 9 areas. Three areas have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

• •					
WEAPON	250# SNAKEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	23 24
Area E (400'x550')	58/3	21/2	30/3	16/3	25
Area F (350'x700')	41/3	22/2	33/4 .	18/3	26
Area G-1 (250'x750'	32/3	18/2	31/3	17/3	27
Totals	111/9	61/6	94/10	51/9	28

SP AET

A-A-K-3

(Revised by 17th Note to Holders)

Tab K to Annex A to Appendix A 8

9

16

17

18

19

20

SECKET					
(2) We requirements sh	apons/sorties operations above:	itionally require	d to achieve "ove	er target"	1 2
	33/n	73/7	113/12	61/11	3
ggover targeti	order to achieve a d	amage level of 7	'0%, weapons/so	rties required	i 4 5
WEAPON	250# SNAKEYE or	500# SNAKEYE	500# orBOMB or	750# BOMB	6 7
Area E	128/11	70/8	100/11	53/9	8
Area F	157/11	75/8	112/12	59/10	9
Area G-1	108/9	59/7	104/12	55/9	10
Totals	573/31	204/23	316/35	167/68	11
redortements sh	apons/sorties opera own above:	tionally required	d to achieve "ove	er target"	12 13
	448/37	245/28	379/42	200/34	14
15. PROBABI	ILITY OF ACHIEVI	NG DESIRED DA	MAGE LEVEL:	50%	15

A-A-K-4 (Revised by 17th Note to Holders)

ya

Tab K to Annex A to Appendix A

ANNEX B TO APPENDIX A

LINES OF COMMUNICATIONS

Annex B to Appendix A

TARGET NO. 10





TARGET INFORMATION AND STRIKE DATA

2. BE NUMBER: - 616-0477 3. IDENTIFICATION: Ninh Binh Railroad and Highway Bridge over Song Day. 4. DATE OF INFORMATION: 4 April 1965 DATE OF TIS: 25 April 1965 5. LOCATION: 20-15-40N 105-59-20E, UTM XH 032404, Coated on local Route 126 and the Hanoi-Vinh rail line about 0.8 NM east of Ninh Binh. 6. DESCRIPTION: Oriented northeast/southwest. 680 feet 10 long by 23 feet wide. Three spans: two 235 feet long steel 11 arch through truss end spans and one 210 foot open slanted 12 atch through truss end spans and one 210 foot open slanted 12 atch through truss swing span. Three masonry piers and masonry 13 attack track rail line. Combined rail/highway horizontal 15 clearance is 23 feet; vertical clearance is 12.5 feet. 7. SIGNIFICANCE: This bridge is on local Route 126 and 17 on the only rail line between Hanoi and Vinh. 8. TARGET ENVIRONMENT: Target is a few feet above sea 19 level and is located at the NE edge of Ninh Binh about 900 feet SE of the confluence of the Song Van and Song Day. 21 It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous 23 small villages. A small, isolated hill rises about 300 feet above the plain 0.5 NM S of the target. A bank of NM/ 25 Et rending steep side hills that rise to 650 and SM from Small villages. A small, isolated hill rises about 300 feet above the plain 0.5 NM S of the target, within 100 yds 32 or more positions may be located approximately 170 yds 34 or more positions may be located approximately 170 yds 35 or more positions may be located approximately 170 yds 36 of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds 36 of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds 36 of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds 37 or more positions may be located approximately 170 yds 38 or more positions may be located approximately 170 yd		1. TARGET NUMBER: 10	
3. IDENTIFICATION: Ninh Binh Railroad and Highway Bridge over Song Day. 4. DATE OF INFORMATION: 4 April 1965 DATE OF TIS: 25 April 1965 5. LOCATION: 20-15-40N 105-59-20E, UTM XH 032404. Cocated on local Route 126 and the Hanoi-Vinh rail line about 0.8 MM east of Ninh Binh. 6. DESCRIPTION: Oriented northeast/southwest. 680 feet 10 long by 23 feet wide. Three spans: two 235 feet long steel 11 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through truss end spans and one 210 foot open slanted 12 arch through 12 arch truss end 12 arch truss end 12 arch truss end 12 arch through 12 arch truss end 12		the content of the co	1
4. DATE OF INFORMATION: 4 April 1965 DATE OF TIS: 25 April 1965 6 5. LOCATION: 20-15-40N 105-59-20E, UTM XH 032404, 10-20 10-	: .		2
5. LOCATION: 20-15-40N 105-59-20E, UTM XH 032404, Located on local Route 126 and the Hanoi-Vinh rail line about 0.8 NM east of Ninh Binh. 6. DESCRIPTION: Oriented northeast/southwest. 680 feet 100 gby 23 feet wide. Three spans: wo 235 feet long steel 11 arch through truss end spans and one 210 foot open slanted 12 steel truss swing span. Three masonry piers and masonry 13 abutments. Probable two highway lanes superimposed over a single track rail line. Combined rail/highway horizontal 15 clearance is 23 feet; vertical clearance is 12.5 feet. 7. SIGNIFICANCE: This bridge is on local Route 126 and 16 on the only rail line between Hanoi and Vinh. 8. TARGET ENVIRONMENT: Target is a few feet above sea 19 level and is located at the NE edge of Ninh Binh about 900 20 feet Se of the confluence of the Song Van and Song Day. 21 It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous 22 amail villages. A small, isolated hill ritses about 300 24 feet above the plain 0.5 NM s of the target. A bank of NM/ 25 Et rending steep side hills that rise to 650 feet is centered 5 NM to the WSW. The rail line extends NE and SW from 27 the target and is paralleled by a major road. Another road 28 extends NW from Ninh Binh. 9. DEFENSE ENVIRONMENT: a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 33 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like 35 land protuberance. Cloud cover negates accurate identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. 38 (DDI: 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 66th Infantry Regiments, the 68th Artillery Regiment 41 and Headquarters battalions (including an AA Bn) are reported located in Ninh Binh Province. c. Target is located well within the GCI capability of Haipong/Ha		and the first of the contract	3
0.8 NM east of Ninh Binh. 6. DESCRIPTION: Oriented northeast/southwest. 680 feet long by 23 feet wide. Three spans: two 235 feet long steel arch through truss end apans and one 210 foot open slanted steel truss swing span. Three masonry plers and masonry labutments. Probable two highway lanes superimposed over a single track rail line. Combined rail/nighway horizontal clearance is 23 feet; vertical clearance is 12.5 feet. 7. SIGNIFICANCE: This bridge is on local Route 126 and on the only rail line between Hanoi and Vinh. 8. TARGET ENVIRONMENT: Target is a few feet above sea level and is located at the NE edge of Ninh Binh about 900 feet SE of the confluence of the Song Van and Song Day. 11 is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous small villages. A small, isolated hill rises about 300 feet above the plain 0.5 NM S of the target. A bank of NW/SE trending steep side hills that rise to 650 feet is centered by the bridge steep side hills that rise to 650 feet is centered by the target and is paralleled by a major road. Another road extends NW from Ninh Binh. 9. DEFENSE ENVIRONMENT: a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 3 3 4 west of the target, on top of an apparent hill-like 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		April 1965	5
arch through truss end spans and one 210 foot open slanted steel truss swing span. Three masonry piers and masonry abutments. Probable two highway lanes superimposed over a single track rail line. Combined rail/highway horizontal clearance is 23 feet; vertical clearance is 12.5 feet. 7. SIGNIFICANCE: This bridge is on local Route 126 and on the only rail line between Hanoi and Vinh. 8. TARGET ENVIRONMENT: Target is a few feet above sea level and is located at the NE edge of Ninh Binh about 900 feet SE of the confluence of the Song Van and Song Day. It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous small villages. A small, isolated hill rises about 300 SE trending steep side hills that rise to 650 feet is center- ed 5 NM to the WSW. The rail line extends NE and SW from 28 extends NW from Ninh Binh. 9. DEFFENSE ENVIRONMENT: a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like 1 is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like 1 is located immediately SE of the target, within 23 and protuberance. Cloud cover negates accurate identification. AW positions are located in the surround- ing general area, and foxholes and trenching are likely. (DII 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 66th Infantry Regiments, the 66th Artillery Regiment and Headquarters battallons (including an AA Bn) are reported located in Ninh Binh Frovince. c. Target is located well within the GCI capability of Hanoi EW/HF radars. 10. DAMAGE OBJECTIVE: Interdiction of traffic between the Haiphong/Hanoi complex and Dong Phong Thuong. Damage criterion is coll		0.8 NM east of Ninh Binh.	
8. TARGET ENVIRONMENT: Target is a few feet above sea level and is located at the NE edge of Ninh Binh about 900 20 feet SE of the confluence of the Song Van and Song Day. It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous 23 small villages. A small, isolated hill rises about 300 24 feet above the plain 0.5 NM S of the target. A bank of NW/ 25 SE trending steep side hills that rise to 650 feet is centered 5 NM to the WSW. The rail line extends NE and SW from 27 the target and is paralleled by a major road. Another road 28 extends NW from Ninh Binh. 9. DEFENSE ENVIRONMENT: a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 33 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like 35 land protuberance. Cloud cover negates accurate 36 identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. 37 ing general area, and foxholes and trenching are likely. 38 (DDI: 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 66th Infantry Regiments, the 68th Artillery Regiment 41 and Headquarters battalions (including an AA Bn) are 42 reported located in Ninh Binh Province. c. Target is located well within the GCI capability of 44 Hanoi EW/HF radars. 10. DAMAGE OBJECTIVE: Interdiction of traffic between the 46 Haiphong/Hanoi complex and Dong Phong Thuong. Damage 47 criterion is collapse of at least one span.		arch through truss end spans and one 210 foot open slanted steel truss swing span. Three masonry piers and masonry abutments. Probable two highway lanes superimposed over a single track rail line. Combined rail/highway horizontal clearance is 23 feet; vertical clearance is 12.5 feet.	11 12 13 14
It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous small villages. A small, isolated hill rises about 300 24 feet above the plain 0.5 NM S of the target. A bank of NW/ 25 E trending steep side hills that rise to 650 feet is centered 5 NM to the WSW. The rail line extends NE and SW from 27 the target and is paralleled by a major road. Another road 28 extends NW from Ninh Binh. 9. DEFENSE ENVIRONMENT: a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds 32 west of the target, on top of an apparent hill-like 35 land protuberance. Cloud cover negates accurate 36 identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. 38 (DDI: 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 66th Infantry Regiments, the 68th Artillery Regiment 40 and 66th Infantry Regiments, the 68th Artillery Regiment 41 and Headquarters battalions (including an AA Bn) are 42 reported located in Ninh Binh Province. c. Target is located well within the GCI capability of 43 Hanoi EW/HF radars. 10. DAMAGE OBJECTIVE: Interdiction of traffic between the 45 Haiphong/Hanoi complex and Dong Phong Thuong. Damage 48 criterion is collapse of at least one span.		The between handl and vinn.	
a. An active 4-position light (probably 37mm) AAA site is located immediately SE of the target, within 100 yds of the south end of the bridge. An additional site of 3 33 or more positions may be located approximately 170 yds 34 west of the target, on top of an apparent hill-like 35 land protuberance. Cloud cover negates accurate identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. 38 (DOI: 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 66th Infantry Regiments, the 68th Artillery Regiment and Headquarters battalions (including an AA Bn) are reported located in Ninh Binh Province. c. Target is located well within the GCI capability of Hanoi EW/HF radars. 10. DAMAGE OBJECTIVE: Interdiction of traffic between the Haiphong/Hanoi complex and Dong Phong Thuong. Damage criterion is collapse of at least one span.		It is across the 600 foot wide Song Day. Target is situated on a flat, wetland, rice-cultivated plain with numerous small villages. A small, isolated hill rises about 300 feet above the plain 0.5 NM S of the target. A bank of NW/SE trending steep side hills that rise to 650 feet is centered 5 NM to the WSW. The rail line extends NE and SW from the target and is paralleled by a major road. Another road extends NW from Ninh Binh.	20 21 22 23 24 25 27 28
of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like 35 land protuberance. Cloud cover negates accurate identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. 38 (DOI: 27 January 1965) b. Elements of the 304th Infantry Division, the 9th and 65th Infantry Regiments, the 68th Artillery Regiment and Headquarters battalions (including an AA Bn) are 42 reported located in Ninh Binh Province. 43 c. Target is located well within the GCI capability of 44 Hanoi EW/HF radars. 45 10. DAMAGE OBJECTIVE: Interdiction of traffic between the 46 Haiphong/Hanoi complex and Dong Phong Thuong. Damage 47 criterion is collapse of at least one span.		A Company of the Comp	30
and Headquarters battalions (including an AA Bn) are reported located in Ninh Binh Province. 10. DAMAGE OBJECTIVE: Interdiction of traffic between the Haiphong/Hanoi complex and Dong Phong Thuong. Damage 47 criterion is collapse of at least one span.		of the south end of the bridge. An additional site of 3 or more positions may be located approximately 170 yds west of the target, on top of an apparent hill-like land protuberance. Cloud cover negates accurate identification. AW positions are located in the surrounding general area, and foxholes and trenching are likely. (DOI: 27 January 1965)	32 33 35 35 37 38
10. DAMAGE OBJECTIVE: Interdiction of traffic between the Haiphong/Hanoi complex and Dong Phong Thuong. Damage 47 criterion is collapse of at least one span.		and Headquarters battalions (including an AA Pal and	41 42
criterion is collapse of at least one span.	. •	maint bayor radars.	
	1	criterion is collapse of at least one span.	47

TOP LECRET

A-B-A-2

Tab A to Annex B to Appendix A

TOP SECRET

TOP CRET

A-B-A-3

Tab A to Annex B to Appendix A

TOP CRET

A-B-A-4

Tab A to

Annex B to

Appendix A

75

TAB B TO ANNEX B TO APPENDIX A 0

SFERET Thevised by 16th N/H)

A-B-B-1

Tab B to Annex B to Appendix A

TARGET INFORMATION AND STRIKE DATA

The state of the s	
1. TARGET NUMBER: 11	1
2. B. F. NILVETT. 414.0020	2 .
3. IDENTIFICATION: Hai Duong Railroad and Highway Bridge West	3
Control of the contro	4
4. DATE OF INFORMATION: 5 October 1968	5
DATE OF TISD: 24 tomor 1040	6
DATE OF PHOTOGRAPHY. A	7
DATE OF INTELLIGENCE DESCRIPTION A DOCTOR	8
er en	•
and the control of th	9
6. DESCRIPTION: Bridge, oriented E/W, is 1290' long by 20' wide.	10
it has a steel through truss spans and masonry piers and abutments. The	11
single railroad track and single highway lane are superimposed.	12
7. SIGNIFICANCE: This is the longest bridge on the rail line and	12
orimary highway connecting the port of Hai Phong and Ha Noi. Highway	13
CIOUPE are possible via routes mussiss C . (that m	14
8. TARGET ENVIRONMENT: Target, about 5' above sea level is	
I. I NM ENE of Uni Duone. Plat states and the states at th	15
'(IDIAIDIDE POSDIE APOSII mogondomino como como e e i	16
FORM INPROD TO MORNE THOSE & NATION AND ADDRESS OF THE COLUMN ASSESSMENT OF THE COLUMN ASSESSMEN	17 18
·mbankments constitute the principal relief features on the plains	19
rarget crosses generally SE flowing Song Thai Binh (river). At the	20
arget, river is about 1,000' wide, and flows southward for about 3.0	21
VM before bending to the E. About 1, 0 NM N of target, the river makes	22
l Pichtalaula hand (mama an acataulu an an	23
a refere suman and	• •
The state of the s	24
a. The target is within the SAM envelope.	25
and the first of the contract	
b. AAA activity has been identified within 3 NM of the target.	26
and the second areas that the second	27
and the first of the contract	۷ ۲
10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong	28
and Ha Noi. Damage criterion is collapse of at least one of the 3	29
Optob coans	30
	•
There are 4 railway bypass (bridges 616-2195-3599 and -4429 and	31
erry 616-4430) and 4 highway bypasses (combination ferry-pontoon bridges	32
	33
A STATE OF THE STA	

Tab B to
Annex B to
Appendix A

Tab B to Annex B to Appendix A

A-B-B-3

(Revised by 16th Note to Holders)

Tab B to Annex B to Appendix A

A-B-C-1 Vised by 15th N/H) Tab C t Annex b

TARGET INFORMATION AND STRIKE DATA

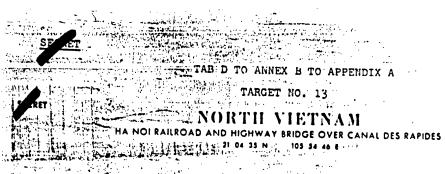
The state of the s	
TARGET NUMBER: 12	
2 B. E. NUMBER: 616-0012	
The state of the s	2
DENTIFICATION: Ha Not Railroad and thehuman Butt	_
	3
TO THE CAR AND THE CAR AND THE STANDARD TO THE STANDARD T	
DATE OF TISD: 6 November 1968	4
DATE OF PHOTOGRAPHY	5
DATE OF PHOTOGRAPHY: 16 July 1967	6
DATE OF INTELLIGENCE REVIEW: 16 September 1968	7
5. LOCATIONS 21-02 222 100 Ct.	•
TO THE STATE OF TH	8
	9
The transfer of the control of the c	,
" DESCRIPTION: Bridge, oriented ENE/Wew to a sport and the state of th	
	0.1
TO THE PROPERTY OF THE PROPERT	11
TO THE WEST TOTAL CONTROL OF THE BOAR AN ARAB ALA MILL CONTROL OF	12
' "/ """ \Y'Y"J! 471 GNG FAIL DONIDON NEIDEA humaea /616 /3001	13
	14
(616-1078, -2221, -3894, -3895, -4191, -4193, 4544, and 4545),	15
Francisco de Companya de Compa	16
7. Significance: Trains from the port of Hai Phong, from China via either	
	17
	18
and all the Red River in the Ha Noi vicinity.	19
	20
8. TARGET ENVIRONMENT: Target, just above sea level, is located at the	٠.
" " " " " " " " " " " " " " " " " " "	21
The low list plain of the Ked Kiver Della which has many assessed in	22
The the tateprion of the built-up area of Ha Not to the W and C and the	2 5
	24
"" " " " " " " " " " " " " " " " " " "	25
roughout the rice-cultivated area.	26
The state of the common production from the state of the	27
9. DEFENSE ENVIRONMENT:	
	28
a. Target is within the SAM envelope.	
	29
b. AAA activity has been identified within 3NM of the target.	
and the target of the target.	30
HMG and small arms fire is anticipated	
The same of the sa	31
10. DAMAGE ON TECTIVE . Introduction of	
10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Ha Noi and	32
lai Phong, Dong Dang, and Lao Cai, and disruption of highway traffic from the	33
ame areas. Damage criterion is collapse of at least one span.	34
IL EFFICT ON NAME DOWN	
11. EFFECT ON NVN: Destruction of this bridge would require rail traffic for	35
is Not and points S to be transferred to other modes of transport at least to cross	36
he Red Rivers of ruck traffic from the N would have to be routed from Route 1A	37
over Routen Land 3, NW of Ha Noi; traffic from Hai Phong would have to be re-routed	38
what what he restricted to a ferry crossing.	39

TABLE (Revised by 15th Note to Holdern)

TAB C to Annex K to Appendix A

	ب	ļ.		•	
SECTION STREET	The state of the s	in the second		-	
12. R	ECUPERABILITY			*	· · · · · · · · · · · · · · · · · · ·
	*Rail:			king ting ting to the same of	
	(1) Line capacit	v: 18 Trains/8	COST CALL		2
Dr. Strange at a	2 4 4 4 4	The state of the s			3
	tous highway rout	ing, would prov	ency ferry and/o		
	a contained file of	LA BESTAULT INDE	TO HOOMING OF	-1-1	• • • • • • • • • • • • • • • • • • • •
THE REAL PROPERTY.	Dominal Scar Charge	vicing an emerge	ency facility duri	ing the wet seaso	on. 7
wind requ	ire 2-6 months.	lepending on evi	rgency restorat	on to pre-attack	capacity 8
to pre-atta	A PIETUS MOUID D	LODUDIA LEGITLE	at least one year	. Complete res	storation 9
ъ.	Highway:		and the state of t		
A A A	(1) Emergency	Tallian Tarks			
		e to na not woul	d be limited to t	Ha Noi could be he 3000 ST/Day	of 13
tua.urguway	y shuttle for rail (raffic.		·	14
salema . to be strong	(2) Bridge recor	struction: Vehi	cular traffic cou	ld be restored w	rithin a 15
The state of the s	lays following res	يبولان والمحمول والمراوة	traffic by deckir	ng along the trac	ks. 16
13. CC	DLLATERAL DAN	MAGE: None			17
14. RE	COMMENDED W	EAPONS AND SO	ORTIES:		18
	In order to achie	ve the desired d	amage criterion	. Weapons/sortis	
required ov	er target:	A STATE OF THE STA			20 20
The Market Mark	250# SNAKEYE	500#	500#	750∦	21
WEAPON.	SNAKEYE	or * SNAKEY	or BOMB	or BOME	
(5, 520' x 4	8') 1145/95	231/26	839/93	127/21	23
b.	Weapons/Sorties	operationally re	equired to achiev	e "over target"	24
requiremen	t shown above:	Simple Control of the		atterner.	25
	1374/115	278/31	1007/112	153/26	26
15. PR	OBABILITY OF	CHIEVING DES	IRED DAMAGE	CRITERION 859	% 27
				DATERION. 03	,• 21
المالية (المالية)	L. W. F. J.	and a second and a second and a second as		a - ***	
The state of the s		and the second	A Section of the sect		
		Serce Land		· • · · · · · · · · · · · · · · · · · ·	
			- Fallen		
			The state of the s		
		V. 7-3 PM-1			•
	77.0				•
10000					
SECRET				#12	
F 12 12			Pay Calley Asset		
Aller or And					mars o
	(1	kavinan by 15t	th Note to Hol	uern)	TAB C to Annex B to

TAB C to Annex B to Appendix A





RET Revised by 15 th N/H)

Tab D to Annex B to Appendix A

The state of the s	
	•
ANAMOREM STATE STA	•
TARGET NUMBER: 13	
THE DATA	
TARGET NUMBER 13 450	
B. E. NUMBER: 616-0011	
ACCUPATION OF THE PROPERTY OF	
3. Nominer: 010-0011	
The state of the s	
3. IDENTIFICATION: Ha Not Railroad and Highway Bridge over Canal	
des Rapides.	
A STATE OF THE PARTY OF THE PAR	
4. DATE OF INFORMATION: 17 October 1868	
DATE OF TISD: 23 January 1969 DATE OF PHOTOGRAPHY: 18 January 1967 DATE OF INTELLIGENC: REVIEW: 28 October 1968	:
DATE OF PHOTOGRAPHY: 18 January 1967	(
DATE OF INTELLIGENC' REVIEW. 28 October 1959	7
NEVIEW: 20 October 1968	
Ja Not - Dong Dang rail line and Bouts 14	
Ha Not - Dong Dang rail line and Route 1A.	5
The state of the s	10
B DECEMBER	• • •
6. DESCRIPTION: Bridge, oriented NE/SW, is 738' long and 20' wide.	
It has 4 steel through truss fixed spans (147' each), a 150' steel through truss	11
tener swing span, and 5 masonry piers. A single highway lane is superimposed	12
center swing span, and 5 masonry piers. A single highway lane is superimposed over the single railroud track. There are 3 rail bypasses (2 bridges - 616-2196 and -4101 and a ferry 616-3755) and 5 highway hyperses (6)	1.3
and -4101 and a ferry 616-3755) and 5 highway bypasses (2 bridges - 616-2196	14
	15
	16
7. SIGNIFICANCE: All trains from Communications	
	17
must cross this bridge to reach the New York The Branching N from Yen Vien,	19
must cross this bridge to reach Ha Noi, Hai Phong, or points S toward Vinh.	19
The Not from the N and NE must also cross this bridge	23
	•
flat plain cultivated in wetland rice and containing above sea level, is on broad,	21
flat plain cultivated in wetland rice and containing many compact villages.	21
	22
	23
	24
	25
built-up areas at SW end of target. The wide, braided Red River is 3 NM SW of target and flows to SE. A large nightly (16, 22)	26
	27
of target.	28
9. DEFENSE ENVIRONMENT:	
The State of the Control of the Cont	29
And the second of the second s	
a. The target is within the SAM envelope.	
	30
	30
h. AAA activity has been identified within 3 NW of the	
h. AAA activity has been identified within 3 NM of the target.	30 31
h. AAA activity has been identified within 3 NM of the target.	
h. AAA activity has been identified within 3 NM of the target.	
h. AAA activity has been identified within 3 NM of the target.	31 32
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Not on Hot Phone	31 32 33
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage	31 32
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage inviterion is the collapse of at least one span.	31 32 33
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage in the collapse of at least one span.	31 32 33 34 35
b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage inviterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail	31 32 33 34 35
b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage inviterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail	31 32 33 34 35
b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage wire terion is the collapse of at least one span. 11. EIFECT ON NVN Destruction of this bridge would require that all rail wire from Communist China or other points north of Yen Vien be transshipped to the computer of transport in order to reach Ha Noi. Highway targetters.	31 32 33 34 35
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage striterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail string from Communist China or other points north of Yen Vien be transshipped to obtain modes of transport in order to reach Ha Noi. Highway traffic would have to be repossed over Routes 2 and 3, NW of Ha Noi.	31 32 33 34 35 36 37
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage striterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail string from Communist China or other points north of Yen Vien be transshipped to obtain modes of transport in order to reach Ha Noi. Highway traffic would have to be repossed over Routes 2 and 3, NW of Ha Noi.	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage striterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail string from Communist China or other points north of Yen Vien be transshipped to obtain modes of transport in order to reach Ha Noi. Highway traffic would have to be repossed over Routes 2 and 3, NW of Ha Noi.	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage itriterion is the collapse of at least one span. 11. EIFECT ON NVN Destruction of this bridge would require that all rail infinite from Communist China or other points north of Yen Vien be transshipped to the modes of transport in order to reach Ha Noi. Highway traffic would have to be graphed over Routes 2 and 3, NW of Ha Noi. SECRET NO FOREIGN DISSEM EXCLUDED ENGLA AUTOMATICAL TRANSPORTATION OF THE PROPERTY OF THE	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage itriterion is the collapse of at least one span. 11. EIFECT ON NVN Destruction of this bridge would require that all rail infinite from Communist China or other points north of Yen Vien be transshipped to the modes of transport in order to reach Ha Noi. Highway traffic would have to be graphed over Routes 2 and 3, NW of Ha Noi. SECRET NO FOREIGN DISSEM EXCLUDED ENGLA AUTOMATICAL TRANSPORTATION OF THE PROPERTY OF THE	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage irriterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail irrite from Communist China or other points north of Yen Vien be transshipped to follow modes of transport in order to reach Ha Noi. Highway traffic would have to be recorded by the control of the control	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage irriterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail irrite from Communist China or other points north of Yen Vien be transshipped to follow modes of transport in order to reach Ha Noi. Highway traffic would have to be recorded by the control of the control	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage irriterion is the collapse of at least one span. 11. EFFECT ON NVN Destruction of this bridge would require that all rail irrite from Communist China or other points north of Yen Vien be transshipped to follow modes of transport in order to reach Ha Noi. Highway traffic would have to be recorded by the control of the control	31 32 33 34 35 36 37 39
h. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Yen Vien (and points north, including Communist China) and Ha Noi or Hai Phong. Damage irriterion is the collapse of at least one span. 11. EIFFECT ON NVN Destruction of this bridge would require that all rail eightful from Communist China or other points north of Yen Vien be transshipped to other modes of transport in order to reach Ha Noi. Highway traffic would have to be required over Routes 2 and 3, NW of Ha Noi. SEC ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	31 32 33 34 35 36 37 39

(2) Emergency facility: Emergency ferry and/or pontoon bridging would provide a maximum of 3000 ST/Day capacity after 10 days. Transshipment to waterways from the Yen Vien rail yard would be pratical for distant

destinations.
(3) Bridge reconstruction: Emergency bridge restoration to full capacity would require 3 to 4 weeks. Complete restoration to pre-attack status, except for non-operation of the swing span, would require 3 to 6 months.

b. Highway:

(1) Emergency facility: Traffic destined byyond Ha Noi could he extensively rerouted; traffic to Ha Noi would be limited to the 3000 ST/Day of the highway shuttle for rail traffic.

(2) Bridge reconstruction: Vehicular traffic could be restored within a matter of days following restoration for rail traffic.

a matter of days following restoration for rail traffic.

13. COLLATERAL DAMAGE:

a. Insignificant:

b. Population Casualties*

Target Area Adjacent Area Target Area Adjacent Area Mil Civ Mil Civ Mil

0 0 0 350 0 22 23

*Casualties estimated under daylight alert conditions.

14. RECOMMENDED WEAPONS AND SORTIES: The first of the contraction of

a. In order to achieve the desired damage criterion weapons/sorties

required over target;

250# 500# 500# 750#

WEAPON SNAKEYE SNAKEYE BOMB BOMB

(738' x 20') 122 114/10 49/5 189/21 92/15

Weapons/sorties operationally required to achieve "over target"

requirement shown above: 137/11 69/7 227/25

A-B-D-3

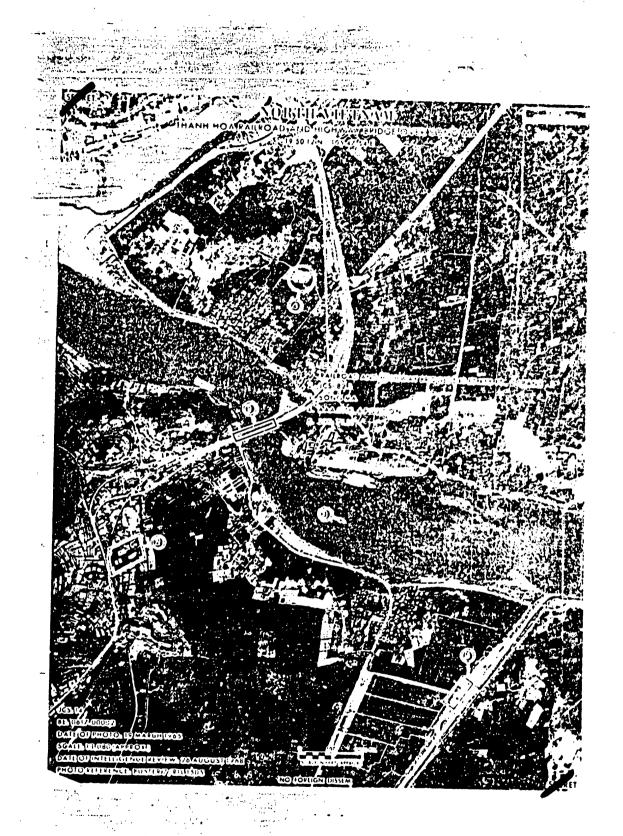
(Revised by 16th Note to Holders)

Annex E Appendi

Tab D to Annex B to Appendix A 10

13

17



Incation: 19-50-12N 105-17-5/IE, located 3 NM NE of Thanh Hoa the Ha Noi-Vinn rail line and Route IA. 10 i. FSCHIPTION: Bridge, oriented E/W; 5/10' long, 56' wide and the water level; continuous steet through-truss with two equal th spans reconcrete center pler and concrete abutments. A single. spans; concrete center pier and concrete abutments. A single pluge railroad track runs through the truss. Concrete decknowlide and pedestrian lanen are cantilevered on each side eliuse. There are two rail ferry bypasses (617-0703 and 6000) and three highway bypasses (617-3611, 617-3712, and 617-7. SIGNIFICANCE: This bridge, the longest rail and highway tare z of the 20th parallel, is a vital link for traffic between and Vinn. Under construction for many years, the bridge was maked in May 1960 to replace a structure destroyed in 1948. 20 21 bridge is a source of national pride and is significant as a bridge is a source of national pride and is significant as a motogical as well as an interdiction target.

3. TARGET ENVIRONMENT: The bridge is located between two motories forming a constriction in the Song Ma, 30' above sea in 8 MM W of the N-S trending coastline. Terrain from coast right and in target area consists of flat wetland rice-covered constaining scattered villages and innumerable trails.

Ingen closely spaced within 2, NM of coast, widely scattered complex system of levess, 1 NM wide runs N-S along a small complex system of levess, 1 NM wide runs N-S along a small rearning 100 ft. above sea level 3/h NM W of target; treeless rearning 100 ft. above sea level 3/h NM W of target. 25 28 ine target in within the SAM envelope. . D. AAA activity has been identified within 3 NM of the target. 37

c. IMC and small arms fire is anticipated.

38

10. DAMAGE OBJECTIVE Interdiction of traffic between Ha Noi 39

10. Tann Hos. Damage criterion is collapse of at least one 40

11. EFFECT ON NVN: Destruction of this bridge will prevent through 42

11. Affic and place a heavy burden on highway traffic via other 43

National prestige will also be affected due to the great 44

12. Ekencinttie construction of this bridge. Ιo · · · National prentige will also be affected due to the grand of the printing construction of this bridge.

No PORTION DESEM EXCLUSED FROM AUTOMATIC DOWNGRADING 45 A-B-E-2 (Revised by 15th Note to Holders) TAB E to Annex B to Appendix A

WEAPON SANKEYE FOR SNAKEYE OF BOMB OF BOMB

(5/10 x 56) 1221/102 2/16/27 925/103 139/23

".ver target" requirement shown above:

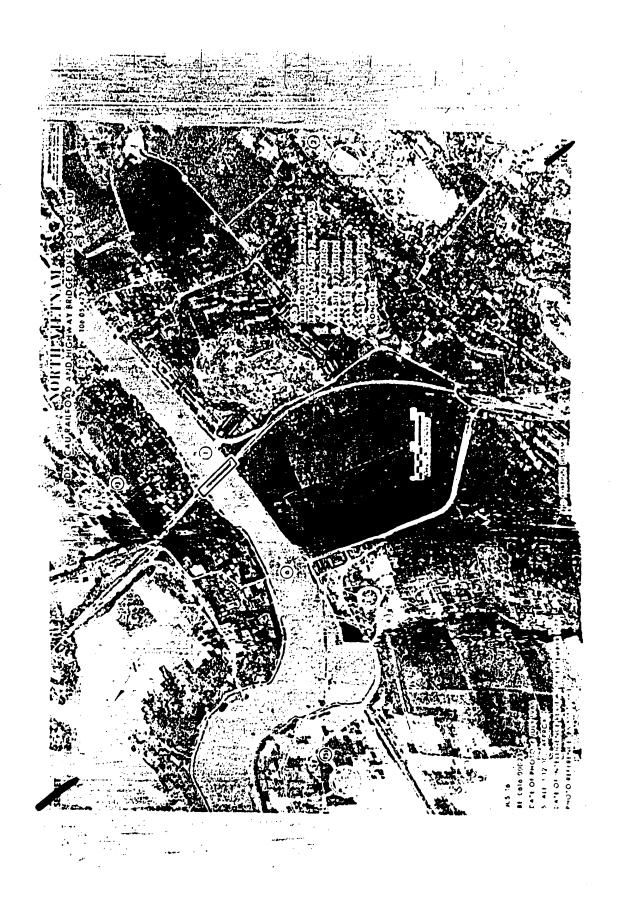
1/166/122 2/16/33 1110/123 167/28

15/10 PROBABILITY OF ACHIEVING DECIREU DAMAGE CRITERION: 85% Revined by 15th Note to Holders) ·TAB E to Annex II to Appendix A



RET	
TARGET INFORMATION AND STIRKE DATA	
TARGET NUMBER: 115	2
Z.D.B. E. NUMBER: 616-0017	ranning the second
	m Samaran a Commercial
PARTICIPATION: Viet Tri Railway and Highway Bulder Ours Bulley	Claire 3
THE PROPERTY OF THE PROPERTY O	3 . ,,,
「	4
DATE OF TISD: 5 November 1968	5 .
DATE OF PHOTOGRAPHY: 23 December 1965	6
DATE OF INTELLIGENCE REVIEW: 26 August 1968	· · · · 7 ·
5. LOCATION: 21-17-55N 105-26-58E, located on the Ha Noi-Lao Cai ra	
line and on National Route 2, about 0.8 NM E of Viet Tri.	111 8 9
the state of the s	
6. DESCRIPTION: Bridge, oriented N/S. is 970' long and 17' wide. It has	as four 10
steel aren inrough-truss spans, three masonry piers, and masonry abutments	The 11
single railway track is flush with the two highway lanes, inside the trusses. T	here 12
is a rail bypass ferry (616-4130) and two highway bypasses: a ferry (616-4038 a pontoon bridge (616-4039).	
	14
7. SIGNIFICANCE: This bridge accommodates the only rail line and the	15
principal highway between Ha Noi or Hai Phong and Yunnan Province. China.	This 16
is the less important of the two line-of-communication routes connecting North	17
Vicinam and China. This line also connects the North Victnamese apatite mine	es 18
near Lao Gai with factories near Ha Noi and with the port of Hai Phong (for ex	port). 19
8. TARGET ENVIRONMENT! Target, about 35 feet above sea level, cros	sses 20
Riviere Claire 0.8 NM ENE of Vict Tri; city located at confluence of N-S orien	ited. 21
meandering Riviere Claire and NW-SE oriented Red River; continues S as Red	River. 22
Target area on flat to rolling plain cultivated in wetland rice, with scattered pa	atches 23
of swampland; area dotted with villages connected by local road network. A pr	incipal 24
road and RR approach target from NW, along N bank of Red River; continue be target ENE to Vinh Yen, about 8.5 NM away. North of target, bordering Rivie	yond 25
Chaire, is rolling plain; E and S of target is intensively cultivated flat plain wit	ere 26 th 27
concentrations of villages along river bank; W of target Red River channel inte	rrupted 28
by small, low sand flats, separate rolling plains in NW and flat plains SW of ta	rget: 29
roiling plains dotted with small lakes. Bordering hills and mountains, 12 to 14	4 30
NM N and NE at 1000 to 5200 feet above sea level; and 15 to 17 NM SW, 1200 to	4200. 31
feet above sea level.	32
9. DEFENSE ENVIRONMENT:	
76 DEFENSE ENVIRONMENT:	33
a. The target is within the SAM envelope.	34
The state of the s	,,
TOTAL AAA activity has been identified within 3NM of the target.	35
HMG and small arms fire is anticipated.	36
10. DAMAGE OBJECTIVE: Interdiction of traffic between Ha Noi and Lao	Cai, 37
located on the Chinese border. Damage criterion is collapse of at least one sp	an. 38
The state of the s	•
II. EFFECT ON NVN: Destruction of this bridge will prevent through tra	ffic 39
between Communist China and Ha Noi, via Lao Cat, except for a reduced volum	ne 40
of highway traffic via an alternate highway W of Viet Trie. There is no alternate	
	42
	• •
SPRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNED AD	ING
	
_ 1-11-P-2	
	TAB F to
	Annex B to Appendix A

Appendix /



Annex B to Appendix A

(2) Emergency facility: Emergency ferry and/or pontoon bridge yould permit 1000 to 2000 ST/Day highway shuttle after 7 days. would require about 5 weeks. Complete restoration to pre-attack status could require as much as one year (reconstruction of the swing-span would impede completion; without this feature, restoration should require only 4-6 months).

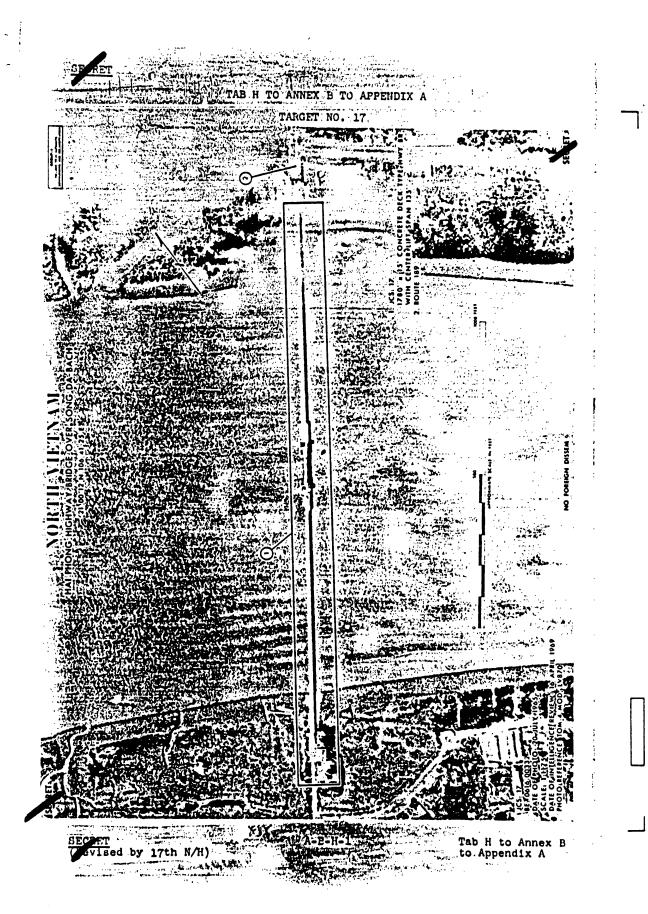
The Highway: Vehicular traffic could be restored within a matter of days following restoration for rail traffic by decking along the rails. In Highway: Vehicular traffic could be restored within a matter of days following restoration for rail traffic by decking along the rails.

13. COLLATERAL DAMAGE: Nones

14. RECOMMENDED WEAPONS AND SORTIES:

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 85% 13 15 16 (Revised by 15th Note to Holders) TAB G to Λ-H-G-3 Annex B to

Appendix A



- 1	the second of th	
ı	The state of the s	
•		
1	SPA	
- 1		
. 1		
: }	TARGET INFORMATION SUFET AND STREET	
. 1	TARGET INFORMATION SHEET AND STRIKE DATA	
1		
11	I TARGET NUMBER: 17	•
11		1
11	The state of the s	
Ш	2 DE NUMBER 616-0332	2
- 11		_
- 11	A STATE OF THE STA	
- 11	DENTIFICATION: Hai Phong Hwy Br ov Song Da Bach	5
- 11		
- 1]	The state of the s	
1	DATE OF INFORMATION: September 1965	4
i	West a control of 113Diver June 1969 A control of the control of t	5
- 1	DATE OF PHOTOGRAPHY: 20 July 1965	9
i	20 July 1965	6
1	DATE OF INTELLIGENCE REVIEW: - 16 April 1969	7
	The state of the s	•
	5. LOCATION: 21-00-12N 106-41-25E, located on North Vietnam Route	8
	Actually, 10 NM N of Hair Phone.	
		9
	海域のおかり、DESCRIPTION: Oriented NNE/SSW: overall dimensions 1,7801 v 151.	10
	16 concrete deck-type spans on concrete pile piers, one steel lift span	
	in content 1251 ton - mt. co.	11
	in center 135' long. The Song Da Bach is deep at this point and used for	12
	havigation. This bridge is one of a series of 5 long bridges of similar	13
	construction over 500' long within a 5-NM length of the highway. The roadway	-
	The roadway	14
	is embanked throughout.	15
	7. SIGNIFICANCE. Target is on a relatively new bypass road, skirting a	
	and the state of a relatively new bypass road, skirting a	16
	previous bottleneck at the Quan Yen Ferry site (Route 10). It is on the	17
	principal route from Hai Phong to NE North Vietnam and South China through	18
	Mong Cal via the function with Pouts 19 or Contag Miles	
	Mong Cal via the junction with Route 18. Center lift span is required for important	19
	waterborne traffic.	20
	The state of the s	
	R. TARCET ENVIRONMENT, Bood second design of the second	
	8. TARGET ENVIRONMENT: Road passes through a low-lying tidal	21
	flatland, with rice cultivation predominating S of the target. Some limestone	
		22
	hills to the NE are also cultivated and contain small hardets. Some linestone	22
	fulls to the NE are also cultivated and contain small hamlets, but the	23
	fulls to the NE are also cultivated and contain small hamlets, but the predominant land feature to the N is wet, unclutivated flatland. The area is	
	fulls to the NE are also cultivated and contain small hamlets, but the predominant land feature to the N is wet, unclutivated flatland. The area is	23 24
	miles to the NE are also cultivated and contain small hamlets, but the way predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen	23 24 25
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25 26
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25 26
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25 26 27
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25 26
	inits to the NE are also cultivated and contain small hamlets, but the predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope.	23 24 25 26 27
	inits to the NE are also cultivated and contain small hamlets, but the predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope.	23 24 25 26 27
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE.	23 24 25 26 27 28
	inits to the NE are also cultivated and contain small hamlets, but the predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target.	23 24 25 26 27 28 29
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target.	23 24 25 26 27 28
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target.	23 24 25 26 27 28 29
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target.	23 24 25 26 27 28 29
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated.	23 24 25 26 27 28 29 30
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: ac-The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong	23 24 25 26 27 28 29
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: ac-The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong	23 24 25 26 27 28 29 30
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China, Damage criterion is destruction of center lift-span.	23 24 25 26 27 28 29 30 31 32
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. C. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span.	23 24 25 26 27 28 29 30 31 32 33
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hal Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE.	23 24 25 26 27 28 29 30 31 32
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span.	23 24 25 26 27 28 29 30 31 32 33
•	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span.	23 24 25 26 27 28 29 30 31 32 33 34
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a.—The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE.	23 24 25 26 27 28 29 30 31 32 33 34 35
•	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a.—The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE.	23 24 25 26 27 28 29 30 31 32 33 34 35 36
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a.—The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE.	23 24 25 26 27 28 29 30 31 32 33 34 35
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Furry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084; Temporary replacement of a destroyed deck type span with	23 24 25 26 27 28 29 30 31 32 33 34 35 36
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Forry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hal Phong trand South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished to the Route 1084; Temporary replacement of a destroyed deck type span with the limited capacity timber treestle supported deck span could be accomplished in 7 to 11 to 12 to 12 to 13 to 15	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
•	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Forry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hal Phong trand South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished to the Route 1084; Temporary replacement of a destroyed deck type span with the limited capacity timber treestle supported deck span could be accomplished in 7 to 11 to 12 to 12 to 13 to 15	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
,	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000' crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 10 and the Hai Phong Hwy Ferry North (BE 616-3898) located 4 NM to the W in Route 1084: Temporary replacement of a destroyed deck type span with Immited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
	predominant land feature to the N is wet, unclutivated flatland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084; Temporary replacement of a destroyed deck type span with Immediate apacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
	predominant land scature to the N is wet, unclutivated statum. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000' crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 10 and the Hai Phong Hwy Ferry North (BE 616-3898) located 4 NM to the W in Route 1084 Temporary replacement of a destroyed deck type span with limited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous passability would take up to one to two months. However, this assumes	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land scature to the N is wet, unclutivated statum. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000' crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: aThe target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 10 and the Hai Phong Hwy Ferry North (BE 616-3898) located 4 NM to the W in Route 1084 Temporary replacement of a destroyed deck type span with limited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous passability would take up to one to two months. However, this assumes	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
	predominant land scature to the N is wet, unclusted station. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. II. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Rioite 10 and the Hai Phong Hwy Ferry North (BE 616-3898) located 4 NM to the W tin Route 1084-filtemporary replacement of a destroyed deck type span with limited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous linestallation of a fixed center span which would become an obstacle to navigation.	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land scature to the N is wet, unclustivated filatiand. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a.—The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084; itemporary replacement of a destroyed deck type span with limited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous between the property of the short concrete spans and the main span to previous linealiation of a fixed center span which would become an obstacle to navigation. 25 ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land scature to the N is wet, unclustivated filatiand. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a.—The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMC and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084; itemporary replacement of a destroyed deck type span with limited capacity timber trestle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous between the property of the short concrete spans and the main span to previous linealiation of a fixed center span which would become an obstacle to navigation. 25 ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land feature to the N is wet, unclutivated falland. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Forry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, lorcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084. Temporary replacement of a destroyed deck type span with Immediate papears of the stroyed deck type span with Immediate papears of the span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous installation of a fixed center span which would become an obstacle to navigation. SE AET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land feature to the N is wet, unclutivated flatiand. The area is interapersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 22. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 1084-right moporary replacement of a destroyed deck type span with Ifmted capacity timber treatle supported deck span could be accomplished in 7 to 10 days: Reconstruction of the short concrete spans and the main span to previous capability would take up to one to two months: However, this assumes installation of a fixed center span which would become an obstacle to navigation. SEE LET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-H-2 Tab H to Annex B to	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
	predominant land feature to the N is wet, unclutivated flatand. The area is interspersed with many wide tidal streams. A bypass exists via the Quan Yen Ferry, a slow and limited capacity 5,000° crossing, located approximately 7 NM SE. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMG and small arms fire is anticpated. 10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong and South China. Damage criterion is destruction of center lift-span. 11. EFFECT ON NVN: Interdiction of this target would slow traffic on this route, forcing the use of the slower ferry bypass to the SE. 12. RECUPERABILITY: Immediate bypass of the bridge could be accomplished by way of the Quang Yen Hwy Ferry (BE 616-1035) located 6 NM to the SE on Route 10 and the Hai Phong Hwy Ferry North (BE 616-3898) located 4 NM to the W in Route 1084 if Temporary replacement of a destroyed deck type span with If Imited capacity (timber treatle supported deck span could be accomplished in 7 to 10 days. Reconstruction of the short concrete spans and the main span to previous accompability would take up to one to two months: However, this assumes Installation of a fixed center span which would become an obstacle to navigation. SEP LET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-H-2 Tab H to	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

COLLATERAL DAMAGE: None
RECOMMENDED WEAPONS AND SORTIES: WEAPON 1245 SNAKEYE or SNAKEYE or BOMB or BOMB

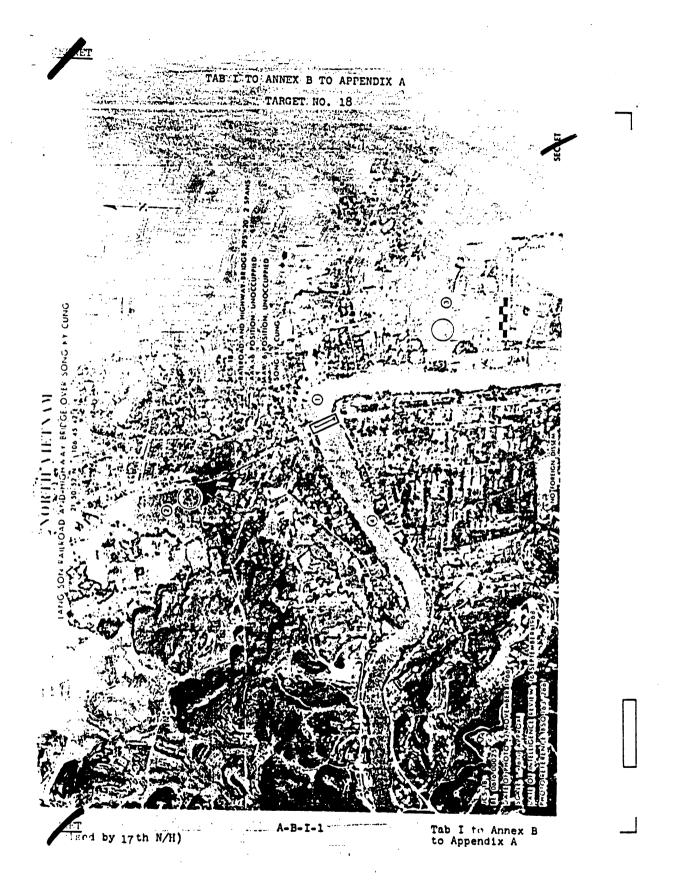
Center Lift 22

Span (135' x 15') 323/27

b. Weapons/sorties operationally required to achieve "over target"

Trequirement shown above: 186/32 2 170/19 738/82

15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 85% 10 379/61 11 -B-H-3 Tab H to Anne: B to th Note to Holders) Appendix A



TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER: 18 2. B.E. NUMBER: 616-0025	1
	2
IDENTIFICATION: Lang Son Railroad and Highway Builden over Con-	3
	Ĩ4
DATE OF INFORMATION: 8 September 1968 DATE OF TIS: 4 November 1968	. 5
DATE OF PHOTOGRAPHY: 2 November 1966 DATE OF INTELLIGENCE REVIEW: 16 September 1968	5678
5. LOCATION: 21-50-52N 106 he hop	8
5. LOCATION: 21-50-52N 106-45-42E, located on the Ha Noi-Dong Dang line, 12 NM s of the Communist China border, and on Route 1A, just f its junction with Route 4.	9 10 11
6. DESCRIPTION: Bridge, oriented NW/SE, is 295' long and 20' wide.	12
superimposed highway deck. There are 2 rail bypass bridges (616-2190 of 5-3224) and 5 highway bypasses: 3 bridges (616-3701, 616-3702, 516-3850), a causeway (616-4548), and a ferry (616-1517)	13 14
516-3850), a causeway (616-4548), and a ferry (616-4547).	15 16
7. SIGNIFICANCE: The nowthousest and towns	
Dang rail line. The only alternation (dual gauge) of the Ha Noi-	17 18
munist China is from Kun-ming, in China, through Lao Cai. Alternate may routes are located near the coast.	19 20
, and the coast,	21
3. TARGET ENVIRONMENT: Target, about 860 ft. above sea level, is edge of Lang Son. Song Ky Cung (river) flows generally to the NW. et in a small oval banin which extends 2.5 NM NW, one NM NE, 2 NM SE, 0.7 NM SW of target. Basin floor flat; cultivated in rice.	22
10.7 NM SW of target. Basin floor flat; cultivated in rice. Basin en-	24
t 1300 ft. above sea level, peak 3 NM 111tops within 5 NM of target	25 26
1. Within 10 NM of target, many peaks exceed 2000 ft. elevation. ft. peak 13 NM E of target.	27 28
	29
DEFENSE ENVIRONMENT:	30
a. Target is not within the SAM envelope.	31
b. AAA activity has been identified within 3 NM of the target.	32
c. HMG and small arms fire is not anticipated.	33
O. DAMAGE OBJECTIVE: Interdiction of traffic between Communist	34
and North Vietnam. Damage criterion is the collapse of at least	35 36
11. EFFECT ON NVN: Destruction of this bridge would halt rail	
and hamper highway traffic between North Vietnam and Communist	37 38
	39
The state of the s	

T NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-B-I-2
Tab I to
Annex B to
Appendix A

	The second of			
RET	Service Control	le des 120 0 anno 1200		
12" RECUPERABILITY		1	7N 14 (# 1 #
WECOPERABILITY:			م موجعه و جون بالمجاهد المراجع	1
Raill				2
per day.		The state of the s	Manager and American	3
bridge would permit 1000-20 (3) Bridge re- to full capacity would reco	OOO ST/Day high	rgency ferry an way shuttle aft	d/or pontoon er 7 days.	56
Pre-attack status would red	anima 2-5 weeks.	complete rest	oration to	7 8 9
b. Highway: Vehi matter of days following re superimposed highway deck.			ed within a alling a	10 11 12
13. COLLATERAL DAMAGE	* A service of the se			13
a. Light damage	to surrounding	area.		14
D. Populat	tion	Cas	ualties*	15
Target Area Ac	ijacent Area	Target Area	Adjacent Are	ea 16
Mil Civ M	il Civ	Mil Civ	M11 C1	lv 17
0	0 650	• 0 0	o ·	7 18
*Casualties estima	sted under dayl	ight alert cond	itions.	19
14. RECOMMENDED WEAPON	NS AND SORTIES:			20
sorties required over targe	et:	. Y 94.	erion, weapons	3/ 21 22
WEAPON 250# SNAKEYE	500# SNAK	500 EYE BOM	# 750# B BOMB	23 24
1587/132	323/		1/150 223/3	37 25
b. Weapons/sortic		y required to a	chieve "over	26
1005/150	388/	43 162	2/180 268/	27
1905/159	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		200/4	
15. PROBABILITY OF ACH		* *** . *		27
		DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	* *** . *		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28
15. PROBABILITY OF ACH	HIEVING DESIRED	DAMAGE CRITERI		27 15 28

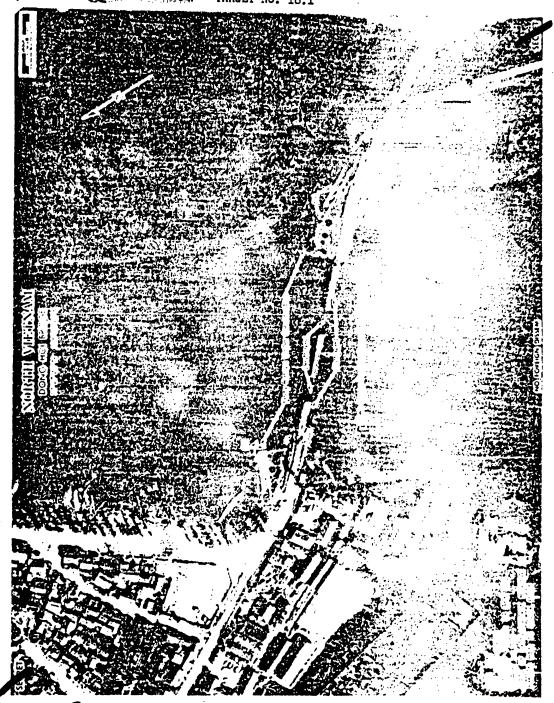
A-B-I-3

(Revised by 17th Note to Holders)

Tab I to Annex B to Appendix A



TAB J TO ANNEX B TO APPENDIX A



A-B-J-1

Tab J to Annex B to Appendix A

TARGET INFORMATION AND STRIKE DATA

Se of the bull of the control of the second of the second

2. BE NUMBER: 617-0018 3. IDENTIFICATION: Dong Hoi Hwy Br ov 'GO Le K: 3 4. DATE C: INFORMATION: 14 April 196; DATE OF TIS: 20 June 1966 cn VII Reside I just 3 of flore Hol. 7 6. In appearance Optioned NW/SE; NOO' & 13'; 13 half through 8 steel Units pair apparent on a rubble fill: north ramp is 105' x 18'; south ramp is 200' x 18'. The embanked ramps extend into a shallow portion of the river. No barges yet 13	1. TARGET HUMDER: 18.1	1
4. DATE CT INFORMATION: 14 April 196; DATE OF TIS: 4 20 June 1966 5 cn VII Reside 1 Just 3 of thors sol. 6. In application of the standard on south and by gaussemer and standard span sciences dack bridge. Ferry ramps are being constructed on a rubble fill; north ramp is 11 105' x 18'; south ramp is 200' x 18'. The embanked ramps extend into a shallow portion of the river. No barges yet 13	2. BR NUMIER: 617-0018	2
con VII Reside 1: 17.27.27N 104-3750E, UTM XE 732307. Located 6.70 Ni Reside 1. Just 3 of Borg Hol. 7 C. Reside Partial: Oriented NW/SE; NOO' & 13'; 13 half through 8 steel Units partial press, extending on south end by 9 causewer and simple span soncrete dock bridge. Ferry ramps 10 are being constructed on a rubble fill; north ramp is 11 105' x 18'; south ramp is 200' x 18'. The embanked ramps extend into a shallow portion of the river. No barges yet 13	S. TOWNITE CATION!" Dong Hot Hwy Br ov You Lu Ku	3
6. In science of the control of the river. No barges vet apparent in area.	20 June 1966	4 5
and the span montree piers, extended on south end by are being constructed on a rubble fill; north ramp is 10 105' x 18'; south ramp is 200' x 18'. The embanked ramps extend into a shallow portion of the river. No barges yet 13		7
	are being constructed on a rubble fill; north ramp is 105' x 18'; south ramp is 200' x 18'. The embanked ramps extend into a shallow portion of the river.	9 10

7. SIGNIFICANOR: The target lies on the primary coastal Route i Latween Dong Hot and Routes 102 and 103 which serve the infiltration correlar into Laon and couthern Victram.

8. TARGET CONTROLLED TO This target is located over the tidal of estuary of the Rao Ley Ky less than 2 MI west of the Tonkin Gulf 19 count. The community area is deltaite flat with the conthern edge of the count its untuin development beneficing the routnern embanic approach to the bridge site and no countainding obstructions roted. Off-road movement in immediate are of the river crossing uppears difficult.

9. DEFENCE ENVIRONMENT: There are 2 active light (19.5mm/37mm). AAA sites in the area containing 6 occupied positions. Within 4 nm (25.15 inactive sites containing 70 unoccupied positions (Dil: 14 Feb - 28 Apr 65). 4 EW raders are reported in the vicinity. Overall military strangth in the Dong Rot area may be at high as 3,000 and small arms and AW fire may be anticipated.

10. DAMAGE OBJUCTIVE: Interdiction of Emilia between bong Hoi and Routes 102 and 103. Damage criterion is destruction at least one apart.

trailite be reported via a combination of Poutes 105 and 101.

12. RECUPERABILITY: Probable recuperability would be the reconstruction of the forcy rumps which could be accomplished in 2 weeks with a concentrated effort. Replacement of destroyed spans could be accomplished in six to eight weeks, but would probably not be attempted, based on the current activity at the site.

13. COLLATERAL DAMAGE: Insignificant.

TOP LECTION

A-B .J .2

Tab J to Annex B to Appendix A 16.73

1

;.•

10,

43

... (Revised by 8th Note to Holders)



TWP SECRET

14. RECOMMENDED WEAPONS AND SORTIES:	1
a. In order to achieve the damage level of 85%, weapons/ sorties required over target: 250# 750# 750# Weapon: SNAKEYE or BOMB or BOMB	2 3
215/18 135/15 115/19	4
Over target" requirements shown above:	5
67/6 262/22 164/18 140/23	7
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 850	8

TOP ECRET

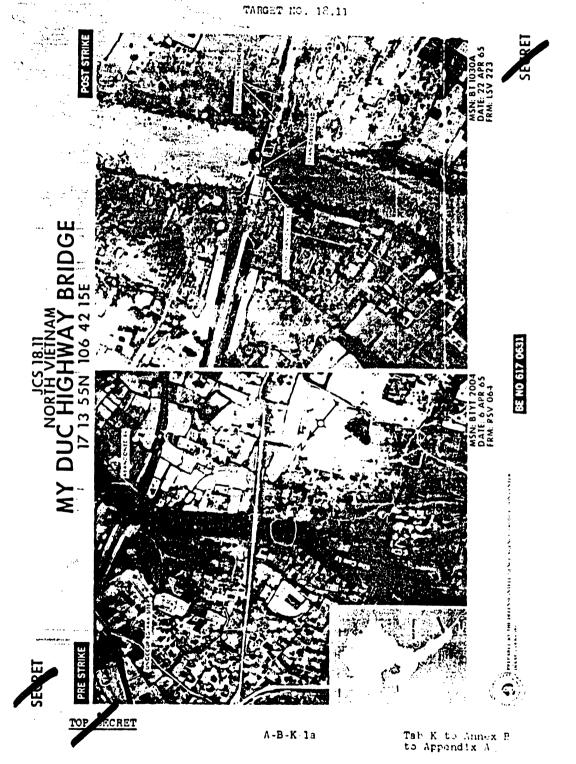
400 - 0

Tab J to Annex B to Appendix A

TAB K TO ANNEX B TO APPENDIX A



TAB K TO ABBEX P TO APPOINT A



114



TARGET INFORMATION AND STRIKE DATA

The state of the s	
1. TARGET NUMBER: 18.11	1
2. BE NUMBER: 0617-00631	2
3. IDENTIFICATION: My Duc Highway Bridge over Khe Cam Ly	3
4. DATE OF INFORMATION: March 1965 DATE OF TIS: 9 April 1965	4
5. LOCATION: 17-13-55N/106-42-15E, 48Q XE 809057. Located on North Vietnam Route 101, approximately 17 air miles SSE of Dong Hoi.	6 7 8
6. DESCRIPTION: Oriented NW/SE, the bridge has overall dimensions of 190 ft x 29 ft, with three reinforced concrete deck spans. It was built within the past 2 or 3 years to replace a ferry bottleneck. Bridge on abandoned rail line, with one steel truss span dropped into the stream, is located in the vicinity of the target. Possible seasonal ford/ferry exists within 1,000 yards downstream of the bridge.	10 11 12 13 14 15
7. SIGNIFICANCE: The target lies on Route 101, an important alternate to Route 1 from Dong Hoi to the DMZ. Route 101 also serves infiltration routes into southern Laos and South Vietnam.	16 17 18 19
appears to be at least seasonally fordable. The terrain surrounding the target is generally flat rice paddy land interspersed with small villages and interconnecting trails. A large cemetery area is located 1/2 mile SW of the target. Karst topography within 5 miles W of the target has peaks up to 1,000 feet in elevation. An abandoned railroad generally follows the road for several miles north and south of the	20 21 22 23 24 25 26 28 29
Dong Hoi area, 112 NM north-northwest, and in the Chap Le area 15 NM southeast. Nearest radars are within 10 NM of 1710N/10622E (near Lang Mo), at Dong Hoi (18 NM distant), and at Vinh Linh (25 NM away). (DOI: 26 February 1965).	30 31 33 33 35 36
10. DAMAGE OBJECTIVE: Destruction of center span.	37
ll. EFFECT ON DRV: Should this target be interdicted logistic traffic on the inland alternate to Route 1 will be delayed until such by-pass as the previous ferry operation may be reinstated. Transient capacity will be reduced.	38 39 40 41
12. RECUPERABILITY: Likely bypass operations during current low water conditions would be the installation of a low capacity pontoon bridge which could be operational within a week. Temporary restoration by trestling for a low capacity crossing could be accomplished in a week to 10 days. With the north pier destroyed full restoration of the bridge will require from two to three months. Unstable streambed conditions would require extensive bottom preparation for fording operations.	43

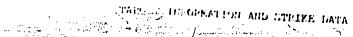


A-B-K-2

Tab K to Annex B to Appendix A

TOP CRET NO 100 PM	•
13. COLLATERAL DAMAGE:Insignificant.	. 1
a. In order to achieve the damage level of 85%,	a
	34
250# 500# 750# GAM Weapon: SNAKTYE or BOMB or BOMB or 83-A	
130/11 230/26 290/32 62/31	5
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	67
155/13 282/32 354/39 79/38	8
15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 95%	ç

(Revised by 7th Note to Holders) A-B-R-3



For TApollar numberes 19.12	
A THE ENDINGER STATE OF THE PARTY OF THE PAR	1
3. IDENTIFICATION: You Be	2
3. IDENTIFICATION: Xom Phuong Hwy Brs ov Jong Dinh 4. DATE OF INFORMATION: March 1965 DATE OF THE	3
20 June 1066	4
on North Victnam Route 1, approximately 7 NM NW of Parelle	5 6 7
oriented NW.33 and separated by 145 feet. The NE bridges a 185 x 16 reinforced concrete deck bridge on possibly two springs. The CW bridge is a former rail bridge converted for highway use. It has overall dimensions of 300 x 14; 6 spring structure of the springs of the concrete deck prince type contract a pict.	8 9 10
tractic between mong Hot and Thanh Hoa.	15 16
8. TARGET ENVIRONMENT: The target crosses the meandering Song Dint on the flat Tonkin Coastal Plain. The surrounding area is sparsely populated and generally cultivated. The Song Dint in diked in the area of the target and at best only sensionably fordarle. Off-road movement is difficult.	17 18 19 20 21
9. DEFINE PAVIRONMENT:	55
e. Dong Hot A/P is only 2.5 NM SE and Dong Hot is approximately 6 M4. In this area are 7 active AAA sites, with 29 light (14 5mm-37mm) AAA positions occupied and 4 positions unoccupied. Overall count in the Dong Hot area also includes to inactive sites, with 47 unoccupied positions. (DOI: 14 Fpb)	23 25 25 27 28
b. 4 EW cartain located in the area.	29
There are also many vehicle tracks and trails. Operational regiments of the 325th Division have trained In the area.	30 31 32 33 34
10. DAMAGE ORJECTIVE: Interdiction of traffic between Dong Hol and Thanh Hon. Damage criterion is destruction of at span on each bridge.	35 36 37
	38 39 40
southern approach, and construction of an earth fill on the surviceable 5th span. To secure an all seasor, crossing, the high level SW bridge may be restored within 5 weeks with suintiness of a crane-to resut the dropped span and realign thu 3 displaced spans. Patching of the damaged pier and framping of former north shore span can be effected within	434567890

TOP CCRET

A-B-L-2

Tab 1, to Annex B to Appendix A

(Revised by 8th Note to Holdene)

TOP SECRET

13. COLTA	TERAL DAM	400.00	P	The second secon	•	
			.	and the same	•	1
14. RECOM	MENDED WE	APONS	AND SOR	ग्रह्य:		2
To show prescrib	and sorti	es ha t requ weap	ve been d uired to	ists of two br computed for e achieve the d les required o	idges. ach bridge. amage criterion ver the target	34 56 7
(1 weapo) In orde ns/sortie	r to	achieve tuired ove	the desired da er target:	mage criteria,	8 9
Weapons	250# SNAKEYE	or	250# BOMB 01	500# DOMB or	750# BOMB	
West Bridge	67/5		270/23	160/18	140/24	10 11
East Bridge	200/17	•	420/35	250/28	205/34	12 13
Totals	267/23	•	690/58	410/46	345/57	14
over"(2) Weapons target".	/sort: requi:	les opera rement si	itionally requ	ired to achieve	15 16
	326/28		841/71	500/56	421/70	17
15. PROBA	DILITY OF	ACHI	EVING DAN	AGE CRITERION	85 %	18

TOP LCRET

A-B-L-3

Tab L to Annex B to Appendix A

(Revised by 7th Note to Holders)



TAB M TO ANNEX B TO APPENDIX A

TARGET NO. 18.13



A-B-M-1

Tab M to Annex B to Appendix A



Top secret

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.13	1
2. BE NUMBER: 617-0515	2
3. IDENTIFICATION: Kim Cuong Highway Bridge Southwest over Nam Chot	34
4. DATE OF INFORMATION: July 1964 DATE OF TIS: 9 April 1965	5
5. LOCATION: 18-26-00N/105-13-25E, UTM 48Q WF 236380. Located on VN Route 8 approximately 10 miles east of LA/VN border.	8
6. DESCRIPTION: Oriented NE/SW, overall dimensions approximately 165 x 15 feet; probably 4 spans, concrete beam with concrete deck; unlimited vertical clearance; concrete piers and abutments. Southern approach passes through an approximate 300 ft. defile cut obliquely through a narrow ridge line.	11 12 13
7. SIGNIFICANCE: This bridge is just NE of the Keo Neua	15 16
8. TARGET ENVIRONMENT: Target spans a deep ravine with overgrown banks. Stream is generally unfordable. Terrain within several miles of target is rugged and heavily forested; off-road movement is limited.	17 18 19 20
9. DEFENSE ENVIRONMENT: In the immediate vicinity of this bridge there are two inactive AAA sites, each site comprising 4 light unoccupied positions. In addition, there is another inactive site of 4 light unoccupied positions at Rao Qua, 6 NM NE of the target. There are no known radar in the area, and the only installations known are small support camps spotted along the road. It is probable that there are at least 50% civilians. Collateral damage negligible.	21 23 24 25 26 27 28
10. DAMAGE OBJECTIVE: Interdiction of highway traffic between NVN and Laos. Damage criterion is destruction of at least one span.	29 30 31
area and halt the flow of supplies south to the junction with	32 33 34 35 36 37
repair the structure to hear full capacity can be obtained from stocks in the Vinh area without difficulty. Temporary repairs could be accomplished within 5 days. Reactivation of a nearby ford located approximately 500 ft east of the target could provide a limited by-pass capability within	3890 4124 4434



A-B-M-2

Tab M to Annex B to Appendix A

TOP LCRET

A-B-M-3

Tab M to Annex B to Appendix A

(Revised by 7th Note to Holders)



TAB N TO ANNEX B TO APPENDIX A

TARGET NO. 18.14



TOP SCRET

A-B-N-1

Tab N to Annex of to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.14	
	1
2. BE NUMBER: 0617-000782	2
3. IDENTIFICATION: Khe Kien Highway Bridge West over	3
4. DATE OF INFORMATION: November 1964. DATE OF TIS: 1 March 1965	5
5. LOCATION: 19-16-21N/104-21-35E, UTM VG 320310. Locat approximately 5 miles west of Cua Rao on VN Route 7.	ted 7
6. DESCRIPTION: Oriented E/W, this bridge has overall dimensions 340 ft x 18 ft, 3 spans with deck type modern reforced concrete haunched T-Beam construction on concrete pic This structure was newly erected in 1964 replacing a ford/fe crossing.	in- 10 ers. 11 erry 12
7. SIGNIFICANCE: This target is a prime example of moder bridging being installed along Route 7 as part of a major improvement project to increase the traffic capacity of this major LOC into Laos.	
8. TARGET ENVIRONMENT: The bridge is at the edge of a st and narrow Nam Mo River valley over a feeder stream, the Nam Kein. The bridge site is surrounded by 3 hill masses towers above the crossing at 1600 ft to 2700 ft elevation. Other than the village of Khe Kien located less than .2 miles SW of the bridge site, the area is sparsely populated and lightly cultivated.	n 19 ing 20 21
9. <u>DEFENSE ENVIRONMENT</u> : There are no military installation the immediate vicinity of the bridge. Work camps in the area are probably provided with armed security. Six NM east at the village of Ban Mou is an inactive AAA site containing 6 unoccupied light positions. Approximately 15 NM NW there is a complex of barracks, support, administrative and support buildings established for the maintenance and support of Route 7.	26 t 27 g 28
10. DAMAGE OBJECTIVE: Destruction of at least one span.	33
11. FFFCT ON MVN: Interdiction of this bridge will reduce cargo ovement to old low level, of 300/0, apparently insufficient for continued support of Communist forces in cent al Laos.	ce 34 35 36 37
12. RECUPERABILITY: Effective destruction of this modern design structure would be difficult to repair over at least 100 foot span distance. It is estimated that a prepared for would be installed over the old crossing during the dry seas within 2 to 3 days. Rainy season conditions would require a the minimum a ferry operation taking over a week to place in	rd 40 son 41

TOP SCRET

A-B-N-2

Tab N to Annex B to Appendix A

(Revised by 7th Note to Holders)

•	•				٠.			ď
		_	_					
	TO	ш	-		73	73	~	١.
			ю	EC	ĸ	E.	Ι.	•
۱			_	_	•	=	_	

	-
13: COLLATERAL DAMAGE: 'Insignificant.	1
14. RECOMMENDED WEAPONS AND SORTIES:	
a. In order-to achieve the demage level of 85% weapons/sorties required over-target:	:
250# 250# 500# 750# Weapon: SNAKEYE or BOMB or BOMB	
80/7 3/10/28 165/18 135/23	1
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	7
98/8 415/34 195/23 164/28	3
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION. 854	,

TOP CRET

A-B-N-3

Annex B to Appendix A

(Revised by 7th Note to Holders)

35 A5T

TAB O TO ANNEX B TO APPENDIX A



SECRET (Nevised by 15th H/H) .__A-B-0-1

The Aurents A

ST ART

TARGET INFORMATION AND STRIKE DATA

1 TARGET NUMBER: 18.15	1
2. BE NUMBER: 617-0622	2
3. IDENTIFICATION: Bai Duc Thon Highway Bridge NW over Ngan Sau	3
DATE OF INFORMATION: 21 August 1968 DATE OF TISD: 18 November 1968 DATE OF PHOTOGRAPHY: 3 April 1965 DATE OF INTELLIGENCE REVIEW: 19 September 1968	5 7 8
5. LOCATION: 18-03-59N 105-49-26E, located on Route 15 approximately 30 NM N of the Laon/North Vietnam border.	9 10
6. DESCRIPTION: Oriented NW/SE with overall dimensions of 180 x 10 feet, the bridge is a probable five-span concrete deck type structure. A rail bridge (617-0633) (JCS 18.69) is located 0.2 NM S of the target. One highway bridge (617-1664) and two fords (one adjacent to 18.15) also serve as bypasses.	11 12 13 14 15
7. SIGNIFICANCE: The target lies on the recently improved route 15 one of the principal access routes from the Vinh-Ha Tinh area of North Vietnam into the Laotian Panhandle region.	16 17 18 19
8. TARGET ENVIRONMENT: The target lies in the approximately 2.9 NM wide Ngan Sau Valley and crosses the Ngan Sau, a part of the Song Ca drainage system. The target area is bordered by irregular hills with peaks up to 1500 ft. in elevation. The valley is cultivated in the region of the target and population is sparse. The village of Bai Duc Thon is 1.2 NM SE of the target.	20 21 22 23 24 25 26
9. DEFENSE ENVIRONMENT:	27
a. Target is within the SAM envelope.	28
b. AAA has been identified within 3 NM of the tar-	29
c. HMG and small arms fire is anticipated.	30
10. DAMAGE OBJECTIVE: Destruction of at least one span.	31
11. EFFECT ON NVN: Interdiction of the target would hinder the flow of supplies into the Loo Panhandle by way of the Mu Gia Pass.	32 34
12. RECUPERABILITY: Temporary reconstruction of the main bridge can be effected in one week, with complete restoration possible within 4-6 weeks. Immediate bypass is possible via a highway bridge, a rail bridge, and two highway fords.	35 36 37 38 39

SP NET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Holders)

V-11-0-2

TAB θ to Annex θ to Appendix A

SF RET	and the second s		e gaja sa			
13.	COLLATERAL DAM	AGE:			ı	
Called Month	a. Insignific		and the second of the second o	The state of the s	- 2	
	b. Popul	ation	C	asualties*	3	
1024	Target Area A	djacent Area	Target Ar	ea Adjacent	Area 4	
1	Mily	11); C1v	TM11 C	iv Mil	Civ 5	
	047.70			0 0	1 6	
-	*Casualties es		r daylight	alert condit	ions. 7	
14.	RECOMMENDED WE	APONS AND SOI	RTIES:	•	8	
weapons/sorties required over target:						
WEAPON	250# SNAKEYE	500# SNAKEYE	500# BOMB	750# BOMB	11 12	
(180' x	10) 103/9	70/8	300/33	235/39	13	
"over ta	b. Weapons/sorget" requireme	rties operati	lonally requove:	uired to aci	nieve 14 15	
	124/10	84/9	360/40	282/47	15	
15.	PROBABILITY OF	ACHIEVING DI	ESTRED DAMA	GE CRITERIO	<u>1</u> : 85% 17	

(Revised by 15th Note to Holders)

TAB O to Annex B to Appendix A



TAB S TO ANNEX B TO APPENDIX A

TARGET NO. 18.19



TOP CRET

Tab S to Annex B to Appendix A

TARGET INFORMATION AND STRIKE DATA

1 PADOPE MANAGEMENT AND THE PARTY OF THE PAR	
1. TARGET NUMBER: 18.19	1
2. BE NUMBER: 0617-00514	2
3. IDENTIFICATION: Kim Cuong Highway Bridge West over	3
4. DATE OF INFCRMATION: March 1965. DATE OF TIS: 13 March 1965	5
Located on North Vietnam route 8 approximately 6 air miles NE of the Laos border.	7 8 9
6. DESCRIPTION: Oriented E/W, the bridge has overall dimensions of 130 ft x 12 ft and is a reinforced concrete deck structure recently built to replace a timber bridge; number of spans unknown.	10 11 12 13
7. SIGNIFICANCE: This structure serves traffic on Route 8 traveling to and from Laos via the Kao Neua Pass. Route 8 is a principal alternate to Route 12. By-pass of the bridge is	14 15 16 17
8. TARGET ENVIRONMENT: The target is situated in a moderately cultivated area. It spans a ravine with overgrown banks. The village of Da Mong lies just to the east of the structure. Vegetative cover is moderate to heavy and off-road movement is limited. The road approaches are on a new alinement with improved grade and possibly more stable crossing point.	18 19 20 21 22 23 24
9. DEFENSE ENVIRONMENT:	25
a. There are two inactive, 4-position (14.5 mm-37mm) AAA sites located approximately 12 NM southwest of the target. There is also an inactive 4-position (14.5mm- 37mm) AAA site at Rao Cua, approximately 5 NM east-northeast of the target. (DOI: KIM CUONG - 20 Feb 65; RAO CUA -	26 27 28 29 30 31
b. A military area is located immediately southeast of the bridge. Personnel capacity of barracks-type buildings is approximately 325 men. Trenches are noted along high- way 8 in the vicinity of the buildings. Probable AW posi- tions are also in the area.	32 33 34 35 36
c. A confirmed RUS-2 early warning radar is located within 15 NM of 1832N/10512E.	37 38
	39 40
hamper movement of military traffic into Laos via the Keo Neus Pass and affect the operational capability of the Commu- nist forces in the Muong Phins - Sepone area.	41 42 43
TOB SECRET	
A-B-S-2 Tab S to Annex B to Appendix A	

repair the structure to full capacity can be obtained from railway stocks in the Vinh area. Temporary repairs from local timber materials could be accomplished within 3 days. 13. COLLATERAL DAMAGE: Insignificant.
14. RECOMMENDED WEAPONS AND SOPTIES: Weapons SNAKEYE or BOMB or BOMB or BOMB

190/16 590/50 250/40 310/52 2 b. Weapons/sortics operationally required to achieve cover target requirements shown above: 10 11 232/20 720/61 427/49 • 375/53 12 15:2 PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 85% 13 Tab S to

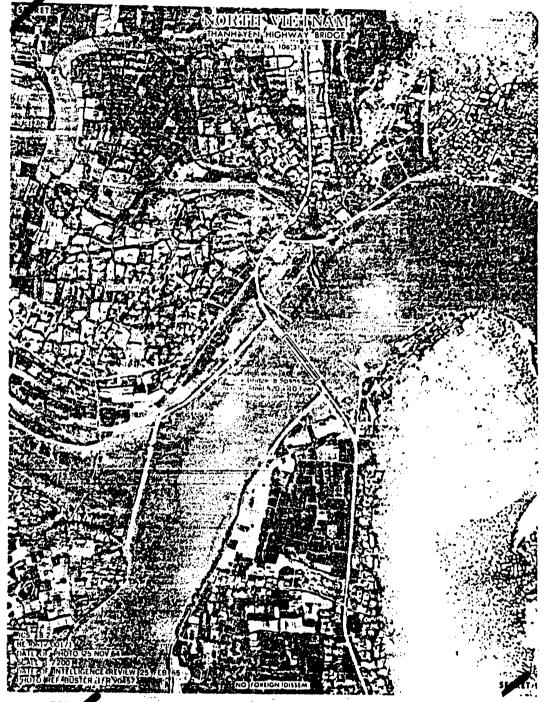
(Revised by 7th Note to Holders)

/30

Annex B to Appendix A

TAB T TO ANNEX B TO APPENDIX A

TARGET NO. 18.2



TOP CRET

A-B-T-1

Tab T to Annex B to Appendix A

A-B-T-2

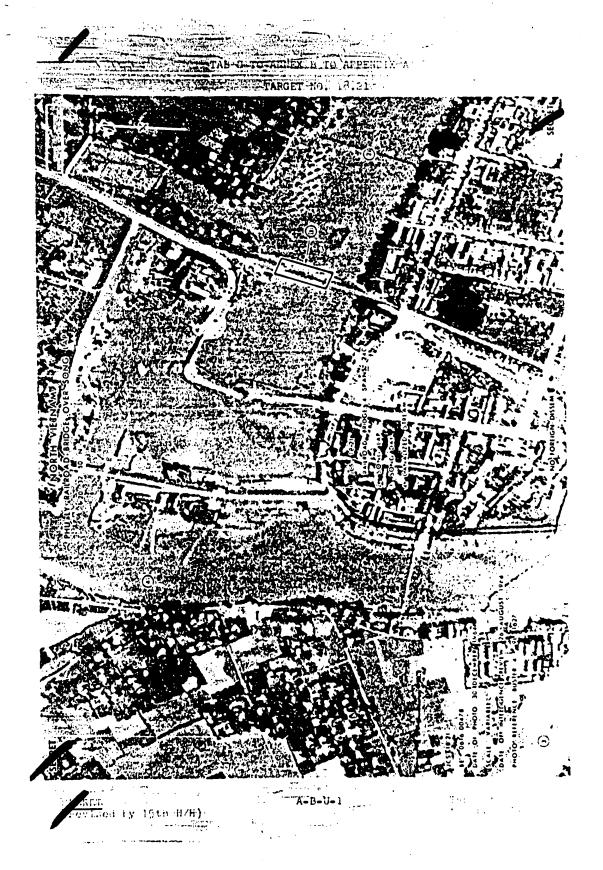
(Revised by 9th Note to Holders)

Tab T to

Annex B to Appendix A

11. EFFECT ON NVN: Interdiction of this target, along with the ferry boat(s) would disrupt the flow of traffic from the Hanoi-Haiphong area into Dong Hoi.

RECUPEIMBILITY: The existing ferry site is apparently kept in readiness for emergency use and would very likely be used immediately upon interdiction of this bridge. River mouth attends of the stream conditions would hamper apparently in event of wased immediately upon interdiction of this bridge. River mouth the stream conditions would hamper span replacement in event of selections particularly near mid stream; however, an average of the span could be repaired for limited traffic, with materials from unused rail bridge 2 miles NE, within 5-6 days. An alternate by-pass over a causeway approximately 7,000 ft SW of the springe site may also be cerviceable with minor improvement of the roadway. 13. COLLATERAL DAMAGE: a . None b. Population opulation Casualties* Target Area Adjacent Area Target Area Adjacent Area Mil Civ Mil Civ Mil 0 0 0 0 Civ Mil Civ- Mil *Casualties estimated under daylight alert conditions. 14. RECOMMENDED WEAPONS AND SORTIES: 21 a. In order to achieve the desired damage criterion weapons/sorties required over targets 250# 250# 500# 750# 750# Weapon: SNAKEYE or BOMB or BOMB or BOMB Agg 18 19 19. 210/18 130/14 b. Weapons/sorties operationally required to achieve 120/20 24 "over target" requirements shown above: 67/6 256/22 155/17 146/24 27 15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERICA: 85% Annex B to Appendix A (Revised by 9th Note to Holders)



INFORMATION AND STRIKE DATA DATE OF INFORMATION: 30 June 1968

DATE OF TIS: 4 November 1968

DATE OF PHOTOGRAPHY: 30 December 1964

DATE OF INTELLIGENCE REVIEW: 26 August 1968

5. LOCATION: 20-32-50N 105-55-15E. Located on the Ha Noi-Vinh rail line about 30 NM S of Ha Noi and just N of the minor port of Phu G. DESCRIPTION: Bridge, oriented NNE/SSW, is 240' long and 8' white. It has 4 steel spans. A single bypass rail bridge (616-3725) in located a short distance to the WNW.

7. SIGNIFICANCE: A vital link on the important rail line 10 the North Vietnam rail system. 8. TARGET ENVIRONMENT: Target, about 10' above sea level, is across the WNW flowing Song Lap, from N edge of Phu Ly (town), and 0.5 MNE of the Junction of the Song Lap and the SE flowing Song Day of the Song Canalized stream joins the Song Lap 0.3 NM W of corget. Target is non-a broad, flat; rice-cultivated plain which extends 2.4 NM:SW of target to rugged, forested NNW-SSE trending of the land other directions, the plain extends for more than 10 NM from target. A small group of low, grassy hills is located about 5 NM COM of the target. For about 0.5 NM:E and W and 1.0 NM N of target 20 21 22 much of the land is inundated. Culture features are dense within about 2.0 NM of target.

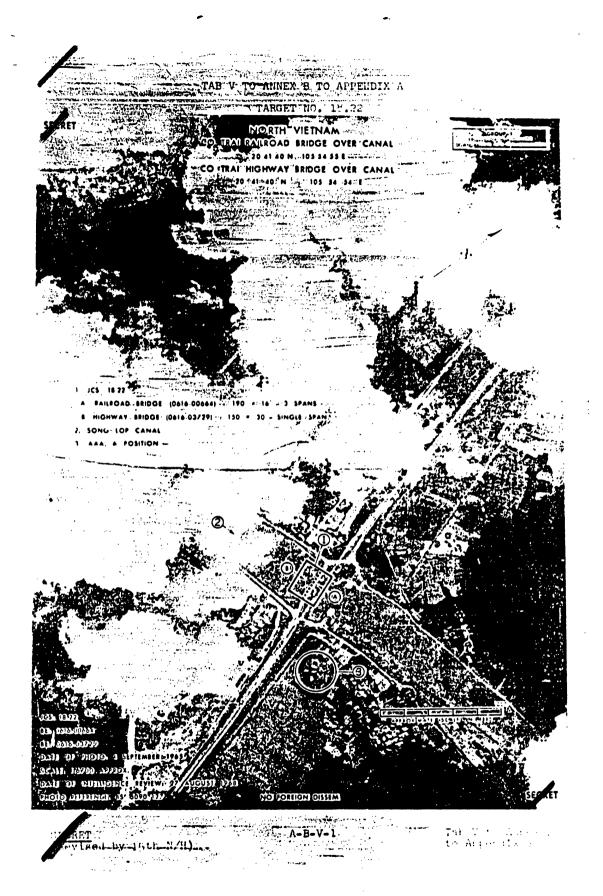
9. DEFENSE ENVIRONMENT: The target is within the SAM envelope. AAA activity has been identified within 3 NM of the target. MMG and small arms fire is anticipated. 10. DAMAGE OBJECTIVE: Interdiction of traffic from Ha Noi S to Thanh Hoa and Vinh ... Damage criterion is collapse of at least one pan. 112 EFFECT ON NVN: Destruction of this bridge would halt rail traffic through this point on the line S from Ha Noi, and place a heavy burden on local highway routes, should a shuttle bypass be attempted. OREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-U-2

(Revised by 15th Note to Holders) TAB U to Annex B to

A xibnecaA

136

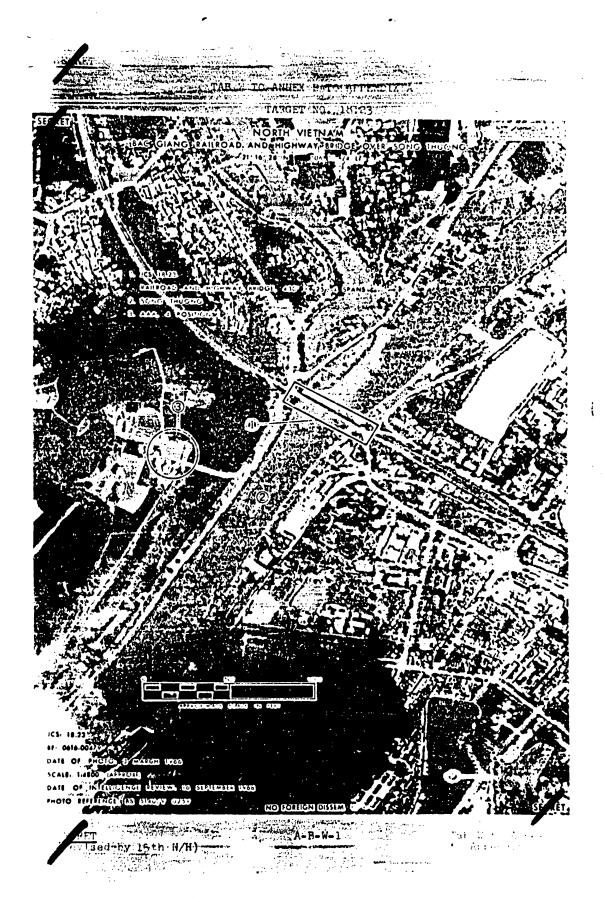
Appendix /



SEC ET	

TARGET INFORMATION AND STRIKE DATA	
TARGET NUMBER: [8, 22	
B. E. NUMBER: 616-0664 Co. Trai Railroad Bridge Over Canal	2
616-3729 - Co Trai Highway Bridge Over Canal	.3
	1.6
J. DENTIFICATION: Co Trai Railway and Highway Bridges	4
1. DATE OF INFORMATION: 31 July 1968	5
DATE OF TISD: 6 November 1968	6
DATE OF PHOTOGRAPHY: 4 September 1965	. 7
	8
DATE OF INTELLIGENCE REVIEW: 27 August 1968	••
3-1 LOCATION: Railway bridge = 20-41-40N 105-54-55E	9
Highway bridge - 20-41-40N 105-54-54E	10
Lorated on the Ha Noi-Vinh rail line and on National Route 1A, about 24 NM S	11
of Ha Not.	12
6. DESCRIPTION: A pair of parallel bridges, oriented N/S.	13
DESCRIPTION: A part of paratter bridges, oriented was	• .,
a. The eastern railway bridge is 190' long and 16' wide. It has a 120'	14
enter through-truss span, two steel beam spans, two concrete piers, and concrete	15
abutments. There are two bypass rail bridges (616-4346 and 616-4347).	16
	17
b. The western highway bridge is 150' long and 30' wide with a single span and concrete deck. There are three highway bypass ferries (616-4531, 616-4532,	18
and 616-4533). And an experience in the manager of the second of the sec	19
7. SIGNIFICANCE: The targets are located on the Ha Noi-Vinh rail line and	20
National Roule IA, between Ha Noi and the minor port of Phu Ly. There is an	21 22
atternate longer (10NM) highway route of lower capacity from Ha Noi to Phu Ly.	
8. TARGET ENVIRONMENT: The 2 bridges, about 10 feet above sea level,	2 5
are 0.4 NM SW of Co Trai, 0.1 NM W of Bai Le and 3.3 NM WSW of S/E flowing	24
Red River. Targets are on a broad. flat plain cultivated in wetland rice. The plain	25
contains many streams, canals, and ditches. Vegetation consists almost entirely	26 27
of cultivation, with trees confined to the compact scattered villages. The road and railroad are on an embankment and the canal they cross is bordered by dikes.	28
Vehicular movement off the highway is restricted; there are many trails and tracks	29
for foot traffic and local vehicular movement. A distinctive 1200 bend in the stream	30
in lucated 1.2 NM SSE of the target.	31
The state of the s	
9. DEFENSE ENVIRONMENT:	32
The target is within the SAM envelope.	33
b. AAA activity has been identified within 3NM of the target.	34
HMG and small arms fire is anticipated.	35
10. DAMAGE OBJECTIVE: Interdiction of rail and highway traffic between Ha Noi	36
and Phu Ly. Damage criterion is collapse of the center railway span and the single	37
highway span.	38
III FFFECT ON NVN: Destruction of these bridges would nait traine 5	39 40
from Hi Noi to Phu Ly, Thanh Hoa, and Vinh, except for a lower-capacity, alternate	41
	. •
	s .
SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	٠.
(Revised by 15th Hote to Holders) TAB v to	
Anneadi	
Λ-R-V-2	

SERET			<u>o</u>	
12. RECUPER	ADILITA		J.	
			particular and the second	1
Ralley				2
(1) Lin	e:capacity: 9 Trains/	3500 ST each way p	er day.	3
(2) Em	ergency facility: High	way shuttle via ferm	ry or pontoon brid	ige 4
aboute?-days	S. Parketty	SI/Day alter 5 day	r Or full capacity	after 5
	dge reconstructions E	The state of the s	The state of the s	termination from the control of
full capacity after	weeks Complete re	Storation to preset	ike would send p	3-6 8 ··
100 PM 10		BERTH THE LOCKET STREET COLUMN	A Contract of the Contract of	9 **
A Ann AL MARATURE	rmediate piers and sa	stored within 10 day	ys with the constr	
Alasand Sala	rele restoration to pre-	strike status would	I require 7-8 wee	ks. 12
13. COLLATE	RAL DAMAGE:			13
a. Insignif	icant The Control			14
b. 3	opulation 4		Casualtions	16
Target Ar	Population Adjacent Area		Our unities+	
		and a second	ea Adjacent A	rea 16
Mil.	Adjacent Area W Mily Clv	MIL C	iv - Mil C	lv 17
O Marie La	70	0 - 0	0	1 18
Casuattics cerimat	ed under daylight aler	t conditions.		19
14. RECOMME	NDED WEAPONS AND	SORTIES:		20
A A A IN OPPINI	r to achieve the desire			21
required over targe	250 NAKEYE OF SN 238/20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Anglish (17) Anglish (18) Anglish (18)	22
WEAPON	2501 S	100	500# 7	750# 23
	274	ARETE OF	BOMB or E	3 <u>OMB</u> 24
Vica V (140, X 19.)	238/20	104/12	445/49	226/38 25
Area B. (150' x 30')	≟103/9	60/7	258/29	168/28 26
Ital:	241/29	164/19	703/78	394/66 27
B. Weapon	I/Sorties operationally	recorded to achieve	্ৰুজ্জু 'e-llover target''	28
equirements shown	above	The state of the s	State of the state	. 29
	110/34	197/22	844/93	474/79 30
15. PROBABIL	ITY OF ACHIEVING D	ESIRED DAMAGE	CRITERION: 85%	31
		PART HE M	and the second second	
		1.0		All Commence
				N. arts
				eta e de la composition della
SECEPTION		See govern	118	. 22
		THE STATE OF THE S	Walk Means	
	(Revised by	15th Note to Hol	dors)	TAB v to Annex B to
	,	\-B-V-3		Appendix A



4 12 22		
RET		

	A many		**
7	The state of the s		i j
	TARGET INFORMATION AND STRIKE DATA		
			1 553
1.	TABLE TO SELECT THE SE	14.	100
••	TARGET NUMBER(*18, 23	1	- Barrer
,	B. E. NUMBER: 616-0479 14-14-14		-12.64
2,	B. E. NUMBER: 616-0479	· · •	
	IDENTIFICATION: Bac Glang Railroad and Highway Bridge over Song Thuong		2911
3.	IDENTIFICATION: Bac Giang Railroad and Highway Bridge aver Con Til		1999
	The state of the s		- 30
4.	DATE OF INFORMATION: 26 July 1968		
	DATE OF TISD: -5 November 1968	4	
	DATE OF THE PROPERTY OF THE PR	5	770
	DATE OF INTELLIGENCE PRINCIPLE	6	
•	WINDERCENCE REVIEW: 10 September 1968 And Address		
_	The state of the s		***
5.	DOCATION: 21-10-20N 100-11-24E. located on the Ha Not-Done Done mail		32/7
··· and	THE PARTY INC. DE MR. NOTATION CO	0	
		9	
6.	DESCRIPTION: Bridge oriented NE/SW-18 4301 tung and 251 miles		
Steel	mail-infugations spans, is concrete piers, and concrete abutmants. It has	10	*
raal b	ypass bridges (616-2362 and 616-4458), 2 highway bypass bridges (616-3704	- 11	Dina.
d 616	-3705) and 2 highway ferries (616-3703 and 616-3706), 2 highway ferries (616-3704	12	
	(010-3703) and 010-3700).	12	4
7.	SIGNIFICANCE: The bridge to a set of the set	٠.	
Noi	SIGNIFICANCE: This bridge is a vital link on the principal rail line connecting with Communist China. However, because it is because it is	. 14	76.70
" Vie	with Communist China. However, because it is located on the dual-gauge Kep-	15	
···m K	n portion of the line, there is a longer, standard-gauge-only alternate route	16	
	ep to Yen Vien) via Thai Nguyen and Kinh No.	17	367
×	TARCETENING		
	TARGET ENVIRONMENT: Target, about 10 feet above sea level, crosses	18	10.00
· · · · · · · · · · · · · · · · · · ·	ing song Indong at NW corner of Bac Glang. Target te on broad Get aleter town	19	Jeyn y
	ou in westand rice, "Inumerous small hill areas are located NW of the toward	2ó	
******	cot being about a NM NWais, The road and railroad generalise ambantage and	. 21 .	25
and 1	to Phu Auyen and W for 3 NM before turning to the SW a Coming	22	
1-111 ZC	u stream joins the Song Thuong about 0. I NM N of the w and of the care.	23	200
		23	
9.	DEFENSE ENVIRONMENT:		200
		24	
	n. The target is within the SAM envelope	3.0	19 A 1
		25	70.
	b. AAA activity has been identified within 3 NM of the target.	- ·	-944
	The same of the sa	26	
	c. HMG and small arms fire is anticipated.		
	The state of the s	27	
10.	DAMAGE OR TECTIVES Topoglastics of the state		10.
n, or	DAMAGE OBJECTIVE: Interdiction of rail traffic between Kep and Yen	28	7.4
10 10.	the direct, dual-gauge portion of the Ha Noi-Dong Dang rail line. Damage	. 29	数形
	n is the collapse of at least one span.	. 30	4.5
	EFFECT ON NYN: Destruction of this helds		
1 1 1 1 1 1	The bridge would prevent through rail	31 .	J. West
1116 (C	he Ha Not and require standard gauge trains to be routed over the longer	32	
MM)	inai Nguyen-Kinh No alternate route.	33	103
		- :.	
14.	RECUPERABILITY	34	
			1 2
	a. Rall:	. 36	1
			A. W.
	(1) Line capacity: 9 Trains/6000 ST each way per day.	26	
		J0	FO
	RECUPERABILITY: *** RECUPERABILITY: ** RECUPERABILITY: ** Recuperable ** R	2.0	
mit 1	000 to 2000 ST/Day highway shuttle after 7 days.	37	
		. 38	1
	(1) Bridge reconstruction: Emergency bridge restoration to full capacity quire! 3 weeks. Complete restoration to pre-attack status would require.		
id re	quire 1 = 3 weeks. Complete restoration to pre-attack status would require	39	
111414	iths. The state of	40	A 1/2 11-1
		41	7
Act to	NO FOREICN DISSEM FYCI UPED PROMITED TO THE PARTY OF THE	· · · ·	-
7	(Revised by 15th Note to Holders)	٠,	
•	NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING (Revised by 15th Note to Holders) Annex B t	.0	7
	A-B-W-2	Ã	۲۰

lays following restoration for rail traffic by decking along the rail 1. COLLATERAL DAMAGE:		
The state of the s	Marian Communication (Communication Communication Communic	ან. შესათ ვ
LIJ. COLLATERAL DAMACE: a. Binsignificant: b. Population: Casu Target Area Adjacent Area Target Area Mill. Civ. Mill. Civ. Mill. Civ. O Decided to the conditions Crisualtics estimated under daylight alert conditions.	Marie Carlos de la Carlo de la	100
		4
Casu	alties*	5
Target Areas Adjacent Area Target Area	Adjacent Assa	
MILL	Adjacent Area	•
MII CIV	Mil Civ	7
180	0 2	8
Casualties estimated under daylight alert condition		
ALIA RECOMMENDED WEAPONS AND SOLUTIONS		9
EAPON: SNAKEYE or SNAKEYE or BOMB 10' x 25') b. Weapons/Sorties and analyses are already and sorties.	K. C.	10
a. In order to achieve the desired damage criterion		
equired over targette	spons/sorties	! ! ! 2
2504		
EAPON: SNAKEYE OF SNAKEYE OF BOMB	750# or BOMB	13
30' x 25')		14
238/29 1041/1	16 167/28	. 15
weapons/Sorties operationally required to achieve "ov	er target"	. 16
quirement shown above: 1524/127 1524/12		17
1524/127 310/34 310/34 310/34	39 201/34	
15 PROPARITY OF	201/34	18
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRIT	ERION: 85%	19
CONTROL DESIRED DAMAGE CRIT		• •
	•	•
	• •	
	Tr.	
	en e	
	* ## *	
	ing Berindan	
	The state of the s	
		•
		,
The state of the s	reger per de la companya de la comp Reger de la companya	
	The first of the second	
	Andrews and the second	•
		Taransa.
	Practical And Color	
	rie de la companya d La companya de la co	
	 A. A. A. C. C.	
ET	#10 22	
	#18.23	
ET. 2	and a second of the second of	to

evised by 15 th N/H)

A-B-X-1

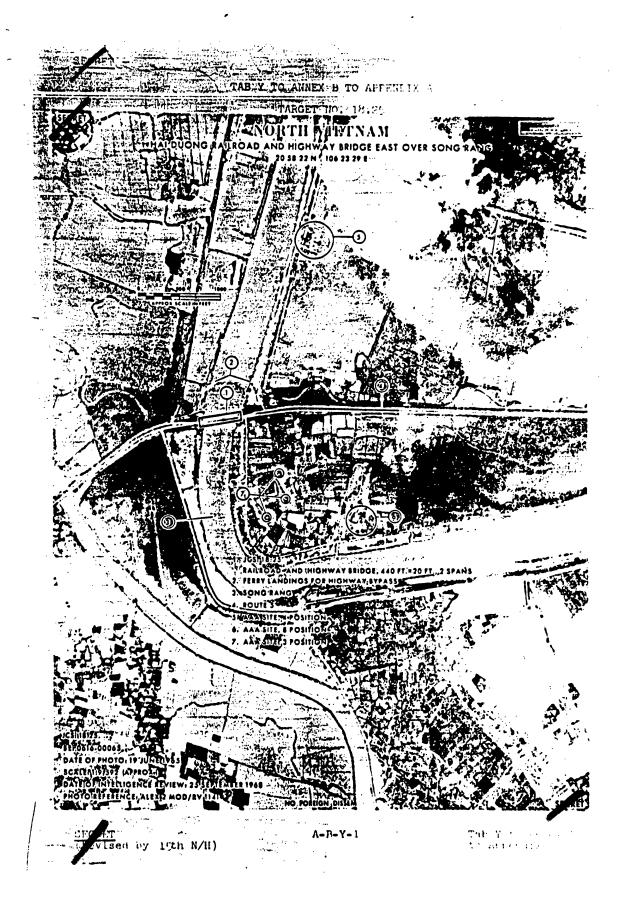
Tun Albert (Albert Control Appendix Control Appendix Control C

ST ARM		
TARGET INFORMATION AND STRIKE DATA	Star Hayer In	ry Statistics
	STATES ASSESSED.	in lustial. Newskasse
TARGET NUMBER 18:21 (CAU B. E. NUMBER (E 616-0707)		ار دورې د در وغوند چې
		1
E. MUMBER (# 616-0707, 144)		. 5
3.3 IDENTIFICATION: Cao Nung Railway Bridge over Song Hoa		2
DATE OF INFORMATION: 26 July 1968. DATE OF TISD: 5 November 1968 DATE OF PHOTOGRAPHY: 28 April 1965 W. DATE OF INTELLIGENCE REVIEW: 27 August 1968	The same of the same of	
DATE OF TISD: 5 November 1968		'./! '5
DATE OF INTELLIGENCE REVIEW 27 Avenue 1969		્રદુ
Dang rail Upg. 62 NM 31-25N 106-29-55E, located on the Ha Noi-Do		7
	ong	8
在工工工工程,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1941年,1	4 " ***	9
wide. it is a span steel and concrete bridge. It has one rail	13'	10
TO TO THE TOTAL STATE OF THE ST	. .	11 12
7. SIGNIFICANCE: This bridge is a key link on the dual gar		
TOTAL TOTAL CONTROL OF THE STATE OF THE STAT		13 14
through China, via Kuei-yang and Kun-ming, entering North Vietness	longer	15
THE TOTAL OF THE TOTAL ADDUCT AT INM MILES TATTED S THE SECOND OF THE SECOND SE	n at sible	16 17
rail routes to the Ha Noi area.		18
8. TARGET ENVIRONMENT: Target about 130 ft shows see les	vel,	19
Thuong (stream) with NW/SE trending Song Hoa (stream). Target is		20 21
The state of the s		22
above sea level; interrupted by S bank tributaries of Song Thuang	ſt.	23 24
""" Tice-cultivated valleva: N and NF of target area howard co-	i	25 26
Thuong, are rugged, wooded hills 700 - 2,000 ft. above sea level, interrupted by small cultivated valleys. A principal road along	, N .	26 27
"" I'M OL DONG INUNNYA DESSES U.Y. NM N OF target site Delimond		28
approaches target bridge from SW along S bank of Song Thuong and continues to NE.		30 29
9. DEFENSE ENVIRONMENT:		-
The state of the s	-	31
a. The target is within the SAM envelope.		32
AAA activity has been identified within 3 NM of the	target.	33
c. IMO and small arms fire is anticipated.		3/1
CONTROL CONTROL TO THE PROPERTY OF THE CONTROL OF T		•
connection between Communist China and Ha Noi. Damage criterion		35 36
in the collapse of at least one span.	•	37
225112 EFFECT ON NVN: Destruction of this bridge would half me	:11	38
Lunggal terms to route through thing to lea cott		33
		40
	$p \in \mathbb{N}_{+} \cap \P$	
MOTOR NOTFORKIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	e me	
V-II-X-5	The same of the sa	• • • • •
NOTFOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-N-X-2 (Revised by 15th Note to Holders)	man w	
TANK THE SECTION OF THE WATHAM DAY TO BUT HOLD BY	TABX to Annex B	
	Appendix	Λ

(Revised by 15th Note to Holders)

#18.24

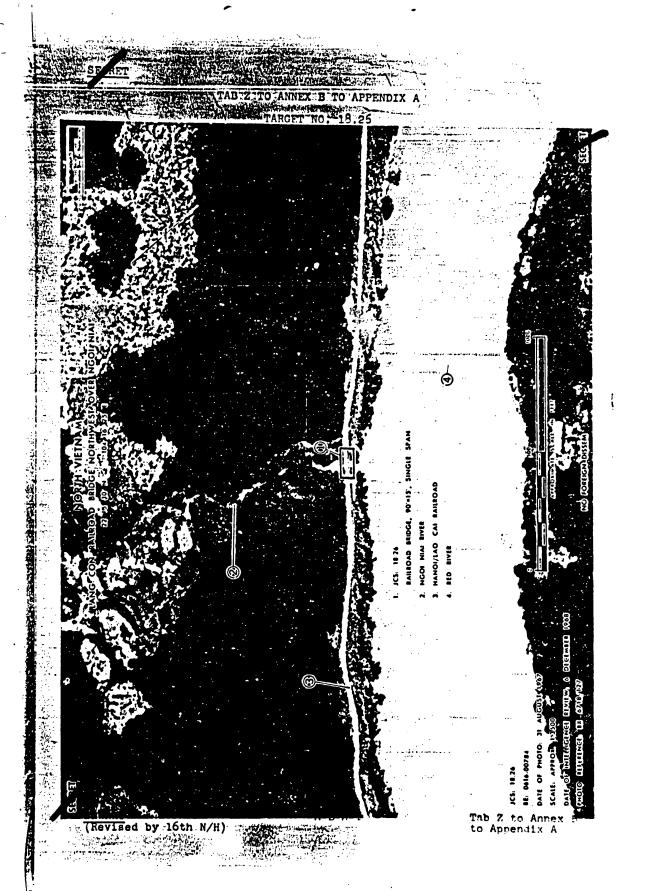
TAR X to Annex B to Appendix A



ST ARDY	
	(Pare -
TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER: 18.25	. 1
TARGET NUMBER: 18.25 2. B.E. NUMBER: 616-0065 2. DENTIFICATION: Half Prong Real road and Highway Bridge Engl	2
13. IDENTIFICATION: Hair Duong Railroad and Highway Bridge Fast	- 3
Over Song Rang.	Ti .
DATE OF TISD: 6 November 1968	5
DATE OF PHOTOGRAPHY: 19 June 1965	7
DATE OF INTELLIGENCE REVIEW: 25 September 1968	0
Uni Phong rall line and National Route 5 about 21 NM miles W of	9 10
Hal Priong.	11
Wide - It has 2 steel through-truss spans, a concrete center pier,	12 13
6 additional wooden intermediate piers, and concrete abutments. There are 2 rail bypass bridges (616-2224 and 616-2447) and 3 highway	14 15
bypasses - 2 ferries (616-3699 and 616-3700) and one pontoon bridge (616-3897).	-16 17
7. SIGNIFICANCE: This bridge is a key link on the vital rail	18
line and primary highway connecting Ha Noi and the port of Hai Phong.	19
Highway detours are possible via routes running S of Hai Duong and Route 5.	20 21
8. TARGET ENVIRONMENT: Target, 10 feet above sea level, is	22
located 3.8 NM NE of Hai Duong. Broad, flat plains cultivated in wetland rice extend for more than 10 NM in all directions from target.	23 24
Muny small compact villages are scattered over the plains; the settlement nearest target is 0.3 NM to the SW. Road and railroad,	26
built on an embankment, extend generally NE and SW from target; at the village nearest target, the road and railroad cross a NW-SE	27 28
oriented canal. The Song Rang, flowing S at the target, changes to an ENE course 0.2 NM from the target.	29 30
2. DEFENSE ENVIRONMENT:	31
a. The target is within the SAM envelope.	32
b. AAA activity has been identified within 3 NM of the target.	•
Co. HMC and small arms fire is anticipated.	34
10. DAMAGE OBJECTIVE: Interdiction of traffic between Hai Phong	20
and lia Nol. Damage criterion is collapse of at least one span.	36
11. EFFECT ON NVN: Destruction of this bridge would halt rail	3? 38
traffic and cause extensive rerouting of highway traffic. Destruction of all facilities here would seriously hamper distribution of vital im-	39
port traffic from Hai Phong.	40
	. •
NO NOTE OF THE PROPERTY OF THE	:
The state of the s	**
(Revised by 15th Note to Holders) Annex A-B-Y-2	
V=0-1-5 Voben	~+~ /\

The state of the s

11.7	1844 <u>- 1</u>					
SF RET	P.E.				he ^{r r}	
			22.000	7	1	
12.	RECUPERABILITY				N	
	Single Supering States	USCIPLINE	FOR CONTRACT	Const.	a di la companya di	1
	Rall				la de la companya de La companya de la co	2
	(2) Emerge struction and	apacity wo t	rains/4600 s	T and way a	Addition to	3 · ·
		N. M. Connection	2000年中海的建筑	Determination	er day.	3
linder con	struction and	ncy Facility:	The 2 rail	bypass brid	ges are "	4
THE PERSON NAMED IN	The same of the same	Holler sel ser mere to main	artinities to be and the		Curoy.	5
						6
restorati	on to pre-atta	ckastatus vou	ld wamidwa i	e complete.		7 8
A STATE OF SALES	The same stands and the same stands are	Marie Land Land Control of the Contr	and the second second second second	* 4 * * * * * * * * * * * * * * * * * *	e fa Arre e de	Ö
					8	9
	Just N of the		to accommoda	ppremented p	y highway	10 11
010101010	reduttements.	The state of the s	THE P. P.			12
13.	COLLATERAL DAM	ACE				
200 7 200 2	the second second	14.2		-		13
management the strange of	a Insignific	ant	100	-	•	14
	b. Popu	lation	C	asualties*	·	15
	To see & Amon	44 4 a a a a 4 a a a a		•		_
-	Target Area	Adjacent Area	Target	Area Adjace	nt Area	16
	M11 C1v	Mil Civ	M11 -	Civ Mil	Civ	17
افتمد	MIL CIV	50			•	
11.			217777	, 0 0	1	18
	Casualties es			ert condition	ns.	19
14.	RECOMMENDED WE	APONS AND SOR	ries:	4 1		20
و و وسيعه م آياني	100 p. 10		***			
	a. In order torties require			age criterio	n,	21 22
a the same of the	Man Coroll	THE THE NAME OF				
WEAPON	SNAKE	YE SNAKE	(E BO	M 12 - 12 ∩ M1		23 24
(1110 - 00)	250# 250# 374 SNAKE 130/1			DOM:	•	24
(440.X SO)	1	22	7/25 111,	/19	25
				red to achie	ve	26
over tar	zet / rodulreme	nt shown above				27
100	156/1	3	27	3/30 134,	/22	28
	on \$2. \$60 per \$300 to \$4.50 p	Professional Confession (Confession)	शतक है है है के सामित			213
	PROBABILITY OF	ACHIEVING DES	SIRED DAMAGE	CRITERION:	85%	29
A Company	A STATE OF THE STA					
4-5	A THE STATE OF THE		10 10 10 10 10 10 10 10 10 10 10 10 10 1			
	TANK BURNEY		200	To the second of		
		7 12 13 13 13			•	
			-37	Alex		
Taraba da A			-			•.
			-	a transfer of the second	*	•
	计算机均均					
				No location of the second second		
		17/11/10/12		All Allers		
				egistados de la deservación dela deservación de la deservación de la deservación de la deservación dela deservación dela deservación dela dela dela dela dela dela dela dela		
				Strain de la company de la La company de la company d		
मा अंग	A STATE OF THE STA	AL TIME			#18.25	
		Mar.		7 () () () () () () () () () (
160			No.		Acres 1	
क अमर मार्क	(Rev	ised by 15th		iors)	TABY to	• •
•	-	∧-n-	Y-3		Annex is a Appendix	
,						•



ASSETTING TARGET INFORMATION AND STRIKE DATA 1. TARGET NUMBERS (18-0784) 2. L. B. NUMBERS (18-0784) 2. L. B. NUMBERS (18-0784) 3. L. B. NUMBERS (18-0784) 4. L. DATE OF INTELLICENCE REVIEW; 6 December 1968 5. L. L. C. L.	THE LANGE CONTRACTOR OF THE PARTY OF THE PAR	
1. TARCET NUMBER! 18.28 2. E. NUMBER! 368-0784 3. IDENTIFICATION! 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	SP RET	-
1. TARCET NUMBER: 18.28 2. E. NUMBER: 368-0784 3. IDENTIFICATION: 2 Lang Com Ratiroad Bridge Northwest over Ngol Nial. 3. DATE OF INFORMATION: 25 July 1968 4. DATE OF INFORMATION: 25 July 1968 5. LOCATION: 22-15-30N 104-16-25E, located 24 MM SE of the Communist China border on the fix Not-Lac Cat ruil line. 5. LOCATION: 22-15-30N 104-16-25E, located 24 MM SE of the Communist China border on the fix Not-Lac Cat ruil line. 5. LOCATION: 8-1dge, oriented NW/SE, is 80' long and 15' wide and has a single sicel half-through-truss span. It has no bypass. 11. A. SIGNIFICANCE: This bridge is located on the leas-important of North 12. Vicinam's 2 rail connections with Communist China. This line is also used to move apatite S toward Ha Not from mines located just S of Lac Cat. 5. A. TARCET ENVIRONMENT: Target is about 125' above sea level, 22 NM 15. Set of Lac Cat in the velley of the Red River. It is across the Ngal Nist, a SW 16 single representation of the Red River. It is across the Ngal Nist, a SW 17 single representation of the sea of the valley are cultivated with rice. 18 hoth sides of the river. Small flat areas of the valley are cultivated with rice. 19 DEFENSE ENVIRONMENT: 20 c. HMG and small arms fire is not anticipated. 21 c. HMG and small arms fire is not anticipated. 22 d. HMG and small arms fire is not anticipated. 23 d. The target is not within the SAM envelope. 24 d. HMG and small arms fire is not anticipated. 25 d. HMG and small arms fire is not anticipated. 26 d. HMG and small arms fire is not anticipated. 27 d. HMG and small arms fire is not anticipated. 28 d. HMG and small arms fire is not anticipated. 29 d. HMG and small arms fire is not anticipated. 20 d. HMG and small arms fire is not anticipated. 21 d. HMG and small arms fire is not anticipated. 22 d. HMG and small arms fire is not		
1. TARCET NUMBER! 18.28 2. E. NUMBER! 368-0784 3. IDENTIFICATION! 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.		
1. S. E. NUMBER! 16.40784 2 33. IDENTIFICATION Lang Con Raitroad Bridge Northwest over Ngol Nial. 34. DATE OF INFORMATION: 25 July 1988 45. DATE OF INFORMATION: 25 July 1988 46. DATE OF INDEX 23 January 1989 47. DATE OF PHOTOGRAPHY: 31 August 1987 48. DATE OF TIDE: 23 January 1989 49. DATE OF INFOLLIGENCE REVIEW: 6 December 1988 70. LOCATION: 22-15-30N 104-16-25E, located 24 NM SE of the Communist China border on the 1st Not-Lao Cai ratil line. 90. DATE OF INFOLLIGENCE REVIEW: 8 December 1988 71. SIGNIFICANCE: This bridge is located on the less-important of North Victimam's 2 rait connections with Communist China. This line is also 13 used to move apatite 5 toward Ha Not from mines located just Sof Lao Cai. 8. CARGET ENVIRONMENT. Target is about 250° above sea level, 22 NM 15 SE of Lao Cai in the valley of the Red River. It is across the Ngol Nial, a SW flowing tributary of the Red River. Target is about 125° NE of the Red River. 17 Densety forested hills and mountain rising to over 1500° extend close along 18 inch sides of the river. Small flat areas of the valley are cultivated with rice. 19 The railroad extends along the NE side of the Red River. 9. DEFENSE ENVIRONMENT: 21. DEFENSE ENVIRONMENT: 22. A. The target is not within the SAM envelope. 22. D. DAMACE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 23. RECUPERABILITY: 24. Line capacity. 12 Trains/3700 ST each way per day. 25. Line capacity. 12 Trains/3700 ST each way per day. 26. Line capacity. 12 Trains/3700 ST each way per day. 27. RECUPERABILITY: 28. Line capacity. 12 Trains/3700 ST each way per day. 29. Line capacity. 12 Trains/3700 ST each way per day. 20. Annex B to Annex B to Annex B to Appendix A Appendix	TARGET INFORMATION AND STRIKE DATA	
The E. NUMBER! 618-0784 2		
3. IDENTIFICATION: Lang Con Raitroad Bridge Northwest over Ngol Nial. 4. DATE OF INFORMATION: 26 July 1968 5. DATE OF INFORMATION: 26 July 1968 5. DATE OF PHOTOGRAPHY: 31 August 1967 6. DATE OF PHOTOGRAPHY: 31 August 1967 6. DATE OF PHOTOGRAPHY: 31 August 1967 6. LOCATION: 22-15-30N 104-16-25E, located 24 NM SE of the Communist China brodge on the Ha Not-Lac Cal rati line. 6. LOCATION: 12-15-30N 104-16-25E, located 24 NM SE of the Communist China brodge or the Hall Not-Lac Cal rati line. 7. SIGNIFICANCE: This bridge is located on the less-important of North Victoriam's 2 rail connections with Communist China. This line is also 13 used to move spatitle St toward Ha Nof from mines located just S of Lac Cal. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM 15 SE of Lac Cal in the valley of the Red River. It is across the Ngol Nial, a SW 16 flowing tributary of the Red River. Target is about 125 NE of the Red River. 17 Densely forested hills and mountains rising to over 1500' extend close along 18 holts sides of the river. Small flat areas of the valley are cultivated with rice. 9. DEFENSE ENVIRONMENT: 21. A. The target is not within the SAM envelope. 22. A. The target is not within the SAM envelope. 23. A. The target is not within the SAM envelope. 24. C. HMG and small arms fire is not anticipated. 25. Location and Ha Not, via Lac Cal. Dumage criterion is collapse of the span. Province, China and Ha Not, via Lac Cal. Dumage criterion is collapse of the span. 26. HMG and small arms fire is not anticipated. 27. RECUPERABILITY: 28. Line capacity. 12 Trains/3700 ST each way per day. 29. Line capacity. 12 Trains/3700 ST each way per day. 29. Line capacity. 12 Trains/3700 ST each way per day. 20. Line capacity. 12 Trains/3700 ST each way per day. 21. Held of the capacity of the Red River. 29. Annex B to Appendix A Appendix A Appendix A Appendix A Appendix A Appendix A		1
3. IDENTIFICATION: Lang Con Raitroad Bridge Northwest over Ngol Nial. 4. DATE OF INFORMATION: 26 July 1968 5. DATE OF INFORMATION: 26 July 1968 5. DATE OF PHOTOGRAPHY: 31 August 1967 6. DATE OF PHOTOGRAPHY: 31 August 1967 6. DATE OF PHOTOGRAPHY: 31 August 1967 6. LOCATION: 22-15-30N 104-16-25E, located 24 NM SE of the Communist China brodge on the Ha Not-Lac Cal rati line. 6. LOCATION: 12-15-30N 104-16-25E, located 24 NM SE of the Communist China brodge or the Hall Not-Lac Cal rati line. 7. SIGNIFICANCE: This bridge is located on the less-important of North Victoriam's 2 rail connections with Communist China. This line is also 13 used to move spatitle St toward Ha Nof from mines located just S of Lac Cal. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM 15 SE of Lac Cal in the valley of the Red River. It is across the Ngol Nial, a SW 16 flowing tributary of the Red River. Target is about 125 NE of the Red River. 17 Densely forested hills and mountains rising to over 1500' extend close along 18 holts sides of the river. Small flat areas of the valley are cultivated with rice. 9. DEFENSE ENVIRONMENT: 21. A. The target is not within the SAM envelope. 22. A. The target is not within the SAM envelope. 23. A. The target is not within the SAM envelope. 24. C. HMG and small arms fire is not anticipated. 25. Location and Ha Not, via Lac Cal. Dumage criterion is collapse of the span. Province, China and Ha Not, via Lac Cal. Dumage criterion is collapse of the span. 26. HMG and small arms fire is not anticipated. 27. RECUPERABILITY: 28. Line capacity. 12 Trains/3700 ST each way per day. 29. Line capacity. 12 Trains/3700 ST each way per day. 29. Line capacity. 12 Trains/3700 ST each way per day. 20. Line capacity. 12 Trains/3700 ST each way per day. 21. Held of the capacity of the Red River. 29. Annex B to Appendix A Appendix A Appendix A Appendix A Appendix A Appendix A	2. B. E. NUMBER: 616-0784	2
4 DATE OF INFORMATION: 26 July 1968 5 DATE OF TISD: 23 January 1969 5 DATE OF PHOTOGRAPHY: 31 August 1967 6 ST. DATE OF PHOTOGRAPHY: 31 August 1967 6 ST. DATE OF PHOTOGRAPHY: 31 August 1967 6 ST. DATE OF INTELLIGENCE REVIEW: 6 December 1968 7 China border on the Ha Not-Lao Cai ratil line. 9 China border on the Ha Not-Lao Cai ratil line. 9 China border on the Ha Not-Lao Cai ratil line. 10 DESCRIPTION: Bridge; oriented NW/SE, is 90' long and 15' wide and has a single stoch half-through-trues span. It has no bypass. 11 To SIGNIFICANCE: This bridge is located on the less-important of North Victnam's 2 rati connections with Communist China. This line is also used to move spatite 5 toward Ha Not from mines located just 5 of Lao Cai. 12 S. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM 15 SE of Lao Cai in the valley of the Red River. It is across the Ngot Nist, a SW 16 Ilowing tributary of the Red River. Target is about 125' NE of the Red River. 17 Densely forested hills and mountains rising to over 1500' extend close along 18 initis sides of the river. Small flat areas of the valley are cultivated with rice. 19 International extends along the NE side of the Red River. 10 DEFENSE ENVIRONMENT: 21	。"我就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的	-
DATE OF INFORMATION: 28 July 1988 DATE OF PHOTIOGRAPHY: 31 August 1987: DATE OF PHOTIOGRAPHY: 31 August 1987: DATE OF PHOTIOGRAPHY: 31 August 1987: The DATE OF INFELLIGENCE REVIEW: 6 December 1988 This DATE OF INFELLIGENCE REVIEW: 7 6 December 1988 This DATE OF INFELLIGENCE REVIEW: 7 8 December 1988 This DATE OF INFELLIGENCE REVIEW: 8 90' long and 15' wide and 10 has a single steel half-through-truss span. 11 has no bypass. 10. This DESCRIPTION: Bridge, oriented NW/SE, is 80' long and 15' wide and 10 has a single steel half-through-truss span. 11 has no bypass. 11. This DESCRIPTION: Bridge is located on the less-important of North 12' Victionan's 2 rail connections with Communist Chins. This line is also 13' used to move apatite 5 toward Ha Not from mines located just 5 of Lao Cai. 14' 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM 55 of Lao Cai. 14' willy of the Red River. 15 secross the Ngol Nist, a SW 16' flowing tributary of the Red River. Target is about 125' NE of the Red River. 17 Densely forested hills and mountains rising to over 1500' extend close along 18' holds sides of the river. Small flat areas of the valley are cultivated with rice. 19' The railroad extends along the NE side of the Red River. 20' DEFENSE ENVIRONMENT: 21' a. The target is not within the SAM envelope. 22' b. AAA activity has not been identified within 3 NM of the target. 23' C. HMG and small arms fire is not anticipated. 24' C. HMG and small arms fire is not anticipated. 24' 10. DAMACE OBJECTIVE: Interdiction of rail traffic between Yunnan Province. China and Ha Not, via Lao Cai. Damage criterion is collapse of the span. 26' 11. EFFECT ON NVN: Destruction of this bridge would hair rail traffic the transaction of the span. 26' 12. Line capacity: 12 Trains/3700 ST each way per day. 31' 23. Line capacity: 12 Trains/3700 ST each way per day. 32' 24. Line capacity: 12 Trains/3700 ST each way per day. 32' 25. ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING Appendix A Appendix A	Lang Con Railroad Bridge Northwest over Ngoi Niai.	3
DATE OF PHOTOGRAPHY: 31 August 1987 DATE OF PHOTOGRAPHY: 31 August 1987 7. S. LOCATION: 22-15-30N 104-18-25E, located 24 NM SE of the Communist China border on the fla Noi-Lac Cai ratil line. 2 China border on the fla Noi-Lac Cai ratil line. 2 China border on the fla Noi-Lac Cai ratil line. 2 China border on the fla Noi-Lac Cai ratil line. 2 China border on the flat Noi-Lac Cai ratil line. 2 China border on the flat Noi-Lac Cai ratil line. 3 China border on the flat Noi-Lac Cai ratil line. 2 China border on the flat Noi-Lac Cai ratil line. 3 China border on the flat Noi-Lac Cai ratil line. 3 China border on the flat Noi-Lac Cai ratil line. 4 China border on the flat Noi-Lac Cai ratil line. 5 China border on the flat Noi-Lac Cai ratil line. 7 China border on the flat Rota Rota Rota Rota Rota Rota Rota Ro	A. DATE OF INFORMATION 26 July 1069	
DATE OF INTELLIGENCE REVIEW: 6 December 1968 7 5.7.LOCATION: 22-15-30N 104-16-25E, located 24 NM SE of the Communist China border on the Ha Not-Lao Cai rati line. 2 China border on the Ha Not-Lao Cai rati line. 7. SIGNIFICANCE: This bridge, oriented NW/SE, is 80' long and 15' wide and has a single stock half-through-truss span. It has no bypass. 11 7. SIGNIFICANCE: This bridge is located on the less-important of North Victiamis 2 ratil connections with Communist China. This line is also used to move apatite S toward Ha Not from mines located just S of Lao Cai. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM SE of Lao Cai in the valley of the Red River. It is across the Rigol Nist, a SW flowing tributary of the Red River. Target is about 125' NE of the Red River. 17 Densely forested hills and mountains rising to over 1500' extend close along 18 18 18 19 The ratiroad extends along the NE side of the Red River. 9. DEFENSE ENVIRONMENT: 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26. HMG and small arms fire is not anticipated. 27 28 29 29 20 20 21 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 21 22 23 24 25 26 27 28 29 29 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 29 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20	DATE OF TISD: 23 January 1969	
The DATE OF INTELLIGENCE REVIEW: 6 December 1988 7. S. LOCATION: 22-15-30N 104-16-25E, located 24 NM SE of the Communist China border on the fis Not-Lac Cai ratil line. 2. China border on the fis Not-Lac Cai ratil line. 2. China border on the fis Not-Lac Cai ratil line. 2. China border on the fis Not-Lac Cai ratil line. 2. China border on the fis Not-Lac Cai ratil line. 3. China border on the fish Not-Lac Cai. 3. China border on the fish bridge is located on the less-important of North Victnam's 2 ratil connections with Communist China. This line is also used to move apatite 5 toward Ha Not from mines located just S of Lac Cai. 3. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM is growing tributary of the Red River. It is across the Ngol Nist, a SW if flowing tributary of the Red River. Target is about 125' NE of the Red River. 2. Densely forested hills and mountains rising to over 1500' extend close along is both sides of the river. Small flat areas of the valley are cultivated with rice. 3. Defense Environment: 3. The target is not within the SAM envelope. 3. The target is not within the SAM envelope. 3. AAA activity has not been identified within 3 NM of the target. 3. C. HMG and small arms fire is not anticipated. 3. C. HMG and small arms fire is not anticipated. 3. C. HMG and small arms fire is not anticipated. 3. C. HMG and Ha Not, via Lac Cai. Damage criterion is collapse of the span. 3. C. HMG and Ha Not, via Lac Cai. Damage criterion is collapse of the span. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. HAG Revised by 15th Note 10 per-attack status would proute 2 to 3 months. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3700 ST each way per day. 3. C. Line capacity: 12 Trains/3	DATE OF PHOTOGRAPHY: 31 August 1967	
China border on the Ha Not-Lao Cai rail line. China border on the Ha Not-Lao Cai rail line. Lawks, 6: DESCRIPTION: Bridge, oriented NW/SE, is 90' long and 15' wide and has a single stocl half-through-trues span. It has no bypass. 7. SIGNIFICANCE: This bridge is located on the less-important of North Victnam's 2 rail connections with Communist China. This line is also 13 used to move apatite S toward Ha Not from mines located just S of Lao Cai. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM 15 SE of Lao Cei in the valley of the Red River. It is across the Ngol Niai, a SW 16 flowing tributary of the Red River. Target is about 125' NE of the Red River. 17 Densely forested hille and mountains rising to over 1500' extend close along 18 hoth sides of the river. Small flat areas of the valley are cultivated with rice. 19 hoth sides of the river. Small flat areas of the valley are cultivated with rice. 20 The railroad extends along the NE side of the Red River. 9. DEFENSE ENVIRONMENT: 21 a. The target is not within the SAM envelope. 22 b. AAA activity has not been identified within 3 NM of the target. 23 c. HMG and small arms fire is not anticipated. 24 c. HMG and small arms fire is not anticipated. 24 c. HMG and small arms fire is not anticipated. 24 c. HMG and small arms fire from the mines just S of Lao Cai. 28 also rait southward movement of apatite from the mines just S of Lao Cai. 28 also rait southward movement of apatite from the mines just S of Lao Cai. 28 also rait southward movement of apatite from the mines just S of Lao Cai. 29 and 19 hoth province a los 3 months. 29 cm and 19 cm	DATE OF INTELLIGENCE REVIEW: 55 6 December 1968	7
China border on the Ha Not-Lao Cai rail line. 20	The state of the s	
PROPERTY ON STATE OF THE STATE	China horder on the He Notel as Cal rail line	
has a single stoch half-through-truss span. It has no bypass. 7. SIGNIFICANCE: This bridge is located on the less-important of North Victnam's 2 rail connections with Communist China. This line is also used to move spatite S toward Ha Not from mines located just S of Lao Cat. 8. TARGET ENVIRONMENT: Target is about 250° above sea level, 22 NM SE of Lao Cai in the valley of the Red River. It is across the Ngoi Niat, a SW flowing tributary of the Red River. Target is about 125° NE of the Red River. Densely forested hills and mountains rising to over 1500° extend close along both sides of the river. Small flat areas of the valley are cultivated with rice. 9. DEFENSE ENVIRONMENT: 2. a. The target is not within the SAM envelope. 2. b. AAA activity has not been identified within 3 NM of the target. 2. c. HMG and small arms fire is not anticipated. 2. d. HMG and amall arms fire is not anticipated. 2. d. HMG and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 2. li. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 2. with alternate rail connection between Communist China and Ha Noi. It would also balt southward movement of apatite from the mines just S of Lao Cai. 2. RECUPERABILITY: 3. Line capacity: 12 Trains/3700 ST each way per day. 3. Line capacity: 12 Trains/3700 ST each way per day. 3. Line capacity: 12 Trains/3700 ST each way per day. 3. ABABA 2-2 4. (Rovisad by 16th Note to Holders) Annex B to Annex B to Annex B to Appendix A	The same of the sa	8
has a single steel half-through-truss span. It has no bypass. 7. SIGNIFICANCE: This bridge is located on the less-important of North Victnam's 2 rail connections with Communist China. This line is also 13 used to move apatite S toward Ha Noi from mines located just S of Lao Cat. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM SE of Lao Cai in the valley of the Red River. It is across the Ngoi Niat, a SW flowing tributary of the Red River. Target is about 250' NE of the Red River. 16 17 18 19 19 10 10 10 11 11 11 12 11 12 11 13 14 15 16 16 17 17 18 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11	मुन्द्रिक DESCRIPTION: Bridge, oriented NW/SE, is 90' long and 15' wide and	10
Victnam's 2 rail connections with Communist China. This line is also used to move spatite S toward Ha Not from mines located just S of Lao Cat. 14 5. TARGET ENVIRONMENT: Target is about 250° above sea level, 22 NM SE of Lao Cat in the valley of the Red River. It is across the Ngol Niai, a SW 16 flowing tributary of the Red River. Target is about 125° NE of the Red River. 17 Densely forested hills and mountains rising to over 1500° extend close along 18 both sides of the river. Small flat areas of the valley are cultivated with rice. 19 The railroad extends along the NE side of the Red River. 20 21 2. The target is not within the SAM envelope. 22 23 24. The target is not within the SAM envelope. 24 25 26. HMG and small arms fire is not anticipated. 26. HMG and small arms fire is not anticipated. 27 28 29 29 20 20 21 21 22 23 24 25 26. HMG and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 26 27 28 29 29 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 21 21 22 23 24 25 26 27 27 28 29 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20	has a single steel half-through-truss span. It has no bypass.	11
Victnam's 2 rail connections with Communist China. This line is also used to move apatite S toward Ha Noi from mines located just S of Lao Cai. 8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM SE of Lao Cai in the valley of the Red River. It is across the Ngoi Niat, a SW flowing tributary of the Red River. Target is about 125' NE of the Red River. Densely forested hills and mountains rising to over 1500' extend close along 18. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills and mountains rising to over 1500' extend close along 19. Densely forested hills areas of the valley are cultivated with rice. 19. Defense Environment: 20. Defense Environment: 21. C., HMG and small arms fire is not anticipated. 22. C., HMG and small arms fire is not anticipated. 23. Densely General State of the span. 24. Densely General State of the span. 25. Densely General State of the span. 26. Line and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 27. Line capacity: Destruction of this bridge would halt rail traffic mit he alternate rail connection between Communist China and Ha Noi. It would also halt southward movement of apatite from the mines just S of Lao Cai. 27. RECUPERABILITY: 28. Line capacity: 12 Trains/3700 ST each way per day. 29. Line capacity: 12 Trains/3700 ST each way per day. 30. Line capacity: 12 Trains/3700 ST each way per day. 31. Densely General State States would require 1 to 3 weeks. Complete restoration to pre-attack status would require 1 to 3 months. 32. C. C. Revised by 16th Note to Holders) 33. Annex B to Appendix A		•-
3. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM SE of Lao Cai in the vailey of the Red River. It is across the Ngoi Niat, a SW 16 flowing irributary of the Red River, Target is about 125' NE of the Red River. Densely forested hills and mountains rising to over 1500' extend close along 18 holds sides of the river. Small flat areas of the vailey are cultivated with rice. 19 holds sides of the river, Small flat areas of the vailey are cultivated with rice. 20 0. DEFENSE ENVIRONMENT: 21 22. A. The target is not within the SAM envelope. 22. b. AAA activity has not been identified within 3 NM of the target. 23. C. HMG and small arms fire is not anticipated. 24. O. DAMACE OBJECTIVE: Interdiction of rail traffic between Yunnan 25. Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 26. II. EFFECT ON NVN: Destruction of this bridge would hair rail traffic with the alternate rail connection between Communist China and Ha Noi. It would also rait southward movement of apatite from the mines just S of Lao Cai. 27. RECUPERA BILITY: 30 28. Line capacity: 12 Trains/3700 ST each way per day. 31 32. Would require 1 to 2 weeks. Complete restoration to pre-attack status would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 34 35 36	Victoriants 2 rail connections with Communist Chine. This line is also	
8. TARGET ENVIRONMENT: Target is about 250° above sea level, 22 NM SE of Lao Cal in the valley of the Red River. It is across the Ngol Niat, a SW flowing tributary of the Red River. Target is about 125° NE of the Red River. 16 flowing tributary of the Red River. Target is about 125° NE of the Red River. 17 Densely forested hills and mountains rising to over 1500° extend close along 18 both sides of the river. Small flat areas of the valley are cultivated with rice. 19 The railroad extends along the NE side of the Red River. 20 6. DEFENSE ENVIRONMENT: 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 24 25 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 20 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20	used to move apatite S toward Ha Noi from mines located just S of Lao Cai.	
8. TARGET ENVIRONMENT: Target is about 250° above sea level, 22 NM 16 flowing tributary of the Red River. It is across the Ngot Nic, a SW 16 flowing tributary of the Red River. Target is about 125° NE of the Red River. Densely forested hills and mountains rising to over 1500° extend close along 18 both sides of the river. Small flat areas of the valley are cultivated with rice. 19 The railroad extends along the NE side of the Red River. 6. DEFENSE ENVIRONMENT: 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 21 20 21 21 22 22 23 24 26 27 28 29 29 20 20 20 20 20 20 21 20 20 21 20 21 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	the state of the s	•••
flowing tributary of the Red River. Target is about 125' NE of the Red River. Densely forested hills and mountains rising to over 1500' extend close along both sides of the river. Small flat areas of the valley are cultivated with rice. 19 The railroad extends along the NE side of the Red River. 20 6. DEFENSE ENVIRONMENT: 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26. HMG and small arms fire is not anticipated. 27 28 29 20 20 20 20 21 22 23 24 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 20 20 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 20 20 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20	8. TARGET ENVIRONMENT: Target is about 250' above sea level, 22 NM	15
Densely forested hills and mountains rising to over 1500' extend close along hoth sides of the river. Small flat areas of the valley are cultivated with rice. 19 10. DEFENSE ENVIRONMENT: 20 21 2.		-
both sides of the river. Small flat areas of the valley are cultivated with rice. The railroad extends along the NE side of the Red River. 20 9. DEFENSE ENVIRONMENT: 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26. HMG and small arms fire is not anticipated. 27 28 29 29 20 20 20 20 21 22 23 24 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 20 20 21 22 23 24 25 26. HMG and small arms fire is not anticipated. 26 27 28 29 29 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 21 21 22 23 24 25 26 27 27 28 29 29 29 20 20 20 20 20 21 22 23 24 25 26 27 27 28 29 29 29 20 20 20 20 21 22 23 24 25 26 27 27 28 28 29 29 20 20 20 20 20 20 20 20		
The railroad extends along the NE side of the Red River. 9. DEFENSE ENVIRONMENT: 2. a. The target is not within the SAM envelope. 2. b. AAA activity has not been identified within 3 NM of the target. 2. c. HMG and small arms fire is not anticipated. 2. d. 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan 2. province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 2. ll. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 2. un the alternate rail connection between Communist China and Ha Noi. It would 2. also rait southward movement of apatite from the mines just S of Lao Cai. 2. RECUPERABILITY: 3. a. Line capacity: 12 Trains/3700 ST each way per day. 3. b. Bridge Reconstruction: Emergency restoration to full capacity 3. would require 1 to 2 weeks. Complete restoration to pre-attack status would 2. require 2 to 3 months. 3. a. Samonths. 3. complete restoration to pre-attack status would 3. complete 2 to 3 months. 3. complete restoration to pre-attack status would 3. complete 2 to 3 months. 3. complete restoration to pre-attack status would 3. complete 2 to 3 months. 3. complete restoration to pre-attack status would 3. complete restoration to pre-attack status would 3. complete the status would status and status would status and status would status would status and status would status and status would status would status and status would status and status would status would status and status would status and status would status and status would status would status and		
10. DEFENSE ENVIRONMENT: a. The target is not within the SAM envelope. b. AAA activity has not been identified within 3 NM of the target. c. HMG and small arms fire is not anticipated. 24 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cal. Dumage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic in the alternate rail connection between Communist China and Ha Noi. It would also halt southward movement of apatite from the mines just S of Lao Cai. 22. RECUPERABILITY: 30. 21. RECUPERABILITY: 31. A. Line capacity: 12 Trains/3700 ST each way per day. 32. Would require 1 to 2 weeks. Complete restoration to pre-attack status would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33. SEMET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING SEMET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING (Revised by 16th Note to Holders) APPENDIX APPENDATION APPENDIX APPENDIX APPENDIX APPENDIX APPENDIX APPENDIX APPENDATION APPENDIX APPENDI		
a. The target is not within the SAM envelope. b. AAA activity has not been identified within 3 NM of the target. c. HMG and small arms fire is not anticipated. 24 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic with the alternate rail connection between Communist China and Ha Noi. It would also halt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 31 32. Line capacity: 12 Trains/3700 ST each way per day. 31 32. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SE JET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-Z-2 Tab Z to Annex B to Appendix A		
b. AAA activity has not been identified within 3 NM of the target. c. HMG and small arms fire is not anticipated. 24 10. DAMAGE ORIECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 12. It would 28 also balt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 21. Line capacity: 12 Trains/3700 ST each way per day. 31. This Bridge Reconstruction: Emergency restoration to full capacity Would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SEGIT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING Tab Z to Annex B to Appendix A		21
b. AAA activity has not been identified within 3 NM of the target. c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Dumage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 27 on the alternate rail connection between Communist China and Ha Noi. It would 28 also balt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 23. Line capacity: 12 Trains/3700 ST each way per day. 31 24. Province of the span		
b. AAAA activity has not been identified within 3 NM of the target. c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 27 to the alternate rail connection between Communist China and Ha Noi. It would 28 also rait southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 12. RECUPERABILITY: 30 13. A. Line capacity: 12 Trains/3700 ST each way per day. 31 24. Bridge Reconstruction: Emergency restoration to full capacity 32 25. Would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 26. Septem No Foreign Dissem excluded promote the pre-attack status would 33 26. Tab Z to Annex B to Appendix A		22
c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan 25 Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 27 18. The salternate rail connection between Communist China and Ha Noi. It would 28 29 20 21. RECUPERABILITY: 30 22 23 24 25 26 27 28 29 20 20 20 21. RECUPERABILITY: 30 20 21. RECUPERABILITY: 30 21. RECUPERABILITY: 31. Recuperable from the mines just S of Lao Cai. 31 32 33 34 35 36 37 37 38 38 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30	b. AAA activity has not been identified within 3 NM of the target.	23
10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Yunnan Province, China and Ha Noi, via Lao Cai. Dumage criterion is collapse of the span. 11. EFFECT ON NVN: Destruction of this bridge would halt rail traffic in the alternate rail connection between Communist China and Ha Noi. It would also talt southward movement of apatite from the mines just S of Lao Cai. 12. RECUPERABILITY: 30. 31. 32. Line capacity: 12 Trains/3700 ST each way per day. 33. 34. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33. 34. September 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 35. Tab Z to Annex B to Appendix A	- 1 1000-1111 (1110-1111-1111-1111-1111-1111	
Province, China and Ha Noi, via Lao Cai. Dumage criterion is collapse of the span. 26 Ill. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 27 In the alternate rail connection between Communist China and Ha Noi. It would 28 also halt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 a. Line capacity: 12 Trains/3700 ST each way per day. 31 b. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING Tab Z to Annex B to Appendix A		24
Province, China and Ha Noi, via Lao Cai. Damage criterion is collapse of the span. - II. EFFECT ON NVN: Destruction of this bridge would halt rail traffic 27 18 the alternate rail connection between Communist China and Ha Noi. It would 28 also balt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 12. Line capacity: 12 Trains/3700 ST each way per day. 31 32. A. Line capacity: 12 Trains/3700 ST each way per day. 32. Would require 1 to 2 weeks. Complete restoration to full capacity 33. Would require 2 to 3 months. 33. SECULATION DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING SECULATION OF OREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING 14 A-B-Z-2 Tab Z to Appendix A Appendix A		
II. EFFECT ON NVN: Destruction of this bridge would halt rail traffic me the alternate rail connection between Communist China and Ha Noi. It would also halt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 2. Line capacity: 12 Trains/3700 ST each way per day. 31 2. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 2. SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING 3. Tab Z to Annex B to Appendix A	Province. China and Ha Noi. via Lao Cai. Dimage criterion is collapse of the span	
II. EFFECT ON NVN: Destruction of this bridge would halt rail traffic on the alternate rail connection between Communist China and Ha Noi. It would also halt southward movement of apatite from the mines just S of Lao Cai. 29 12. RECUPERABILITY: 30 31 32 34 35 36 37 38 39 30 30 30 30 30 30 31 30 31 30 30	Control of the second section of the second	20
also rait southward movement of apatite from the mines just S of Lao Cai. 12. RECUPERABILITY: 30 a. Line capacity: 12 Trains/3700 ST each way per day. 31 b. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SEGIET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING 1A-B-Z-2 Tab Z to Appendix A	il. EFFECT ON NVN: Destruction of this bridge would halt rail traffic	27
12. RECUPERABILITY: a. Line capacity: 12 Trains/3700 ST each way per day. 31 32 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30		
a. Line capacity: 12 Trains/3700 ST each way per day. h. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SE XET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-Z-2 Tab Z to Annex B to Appendix A	also half southward movement of apatite from the mines just S of Lao Cai.	29
a. Line capacity: 12 Trains/3700 ST each way per day. h. Bridge Reconstruction: Emergency restoration to full capacity would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. 33 SE XET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-Z-2 Tab Z to Annex B to Appendix A	12. RECUPERABILITY:	30
secutive 1 to 2 weeks. Complete restoration to pre-attack status would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. SECUTION FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-B-Z-2 Tab Z to Annex B to Appendix A	Control of the Contro	
would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. SEGNET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING TAB Z to (Revised by 16th Note to Holders) Annex B to Appendix A	െട്ട്ര്യ്യായത്ത് പാട് Line caracity: 12 Trains/3700 ST each way her day.	31
would require 1 to 2 weeks. Complete restoration to pre-attack status would require 2 to 3 months. SEGNET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING Tab Z to Annex B to Appendix A	1972 Tuldes Possetmetters Emarganes pastonation to full or register	20
SECUTION FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING Tab Z to Annex B to Appendix A	would require 1 to 2 weeks. "Complete restoration to pre-attack status would	34
Tab Z to (Revised by 16th Note to Holders) Annex B to Appendix A	require 2 to 3 months.	33
Tab Z to (Revised by 16th Note to Holders) Annex B to Appendix A		_
A-B-Z-2 Tab Z to (Revised by 16th Note to Holders) Annex B to Appendix A		
A-B-Z-2 Tab Z to (Revised by 16th Note to Holders) Annex B to Appendix A		• •
(Revised by 16th Note to Holders) Tab Z to Annex B to Appendix A	SEC. ET NO FORFICK DISSEM EXCLIDED FROM AUTOMATIC DOWNER ADDIC	
(Revised by 16th Note to Holders) Annex B to Appendix A	A A THE STATE OF THE PROPERTY	
(Revised by 16th Note to Holders) Annex B to Appendix A	Tab Z to	
Appendix A	(Revised by 16th Note to Holders) Annex B to	
The state of the s	Appendix A	
	The state of the s	

、 ここのでは、大学の方式を対するのでは、

Target Area Adjacent Area Target Area Adjacent Area

MIL Civ Mil Civ Mil Civ Mil Civ Mil Civ

Mil Civ Mil Civ Mil Civ Mil Civ Mil Civ

Target Area Adjacent Area Target Area Adjacent Area

MIL Civ Mil Civ Mil Civ Mil Civ

Target Area Adjacent Area

Mil Civ Mil Civ Mil Civ

Target Area Adjacent Area

Mil Civ Mil Civ Mil Civ

Mil Civ Mil Civ Mil Civ

Target Area Adjacent Area

Target Area Adjacent Area

Mil Civ Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ Mil Civ

Mil Civ

Mil Civ Mil Civ

Mil Civ

Mil Civ Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ

Mil Civ (Revised by 16th Note to Holders)

Tab Z to
Annex B to
Appendix A



SERET	÷			•	
	ranger ere (<u>r. 1</u> gr. <u>1861</u>	general Arrana			
The state of	TARGET	INFORMATION	AND STRIK	E DATA	
TARC				24-44	• • • • • • • • • • • • • • • • • • • •
2. B. E.	NUMBER: 61	6-0783			
3. IDENT		Lang Bun Railre		er Ngoi Bon	
4. DATE	OF INFORMA	TION: 26 July lovember 1968	1968	region of the second of the se	
DATE	OF PHOTOGR	APHY: 14 July	1065	اره داد این است. در میشد	
		ENCE REVIEW		1968	
		والمراجعة والمسائلة والمسائلة والمسائلة والمسائلة المسائلة المسائلة والمسائلة والمسائل		villa estat.	
5. LOCA	TION: 22-09-0	00N 104-23-23E	located on	the Ha Noi-Lao	Cai
		nese border.		-	
				'long and 15' v	vide. It
				s bridge (616-	
The state of the s	ع وتها توسو العبيا درينو به وسراري	er series de la litera	وهو والمراجع المراجع المراجع	San	
7. SIGNII	FICANCE: Th	is bridge is loc	ated on the se	cond and less-	Important
of North Vietn	am's 2 rail com	nnections with (Communist Cl	hina. This line just S of Lao (is also
Separate Separate	manification and the second	d Ha Not From	c Cannes located	Just 5 of Lag (Ja.,
8. TARG 38 NM NW of across a small rugged, forest nautical miles to the ENE, at the Red River, the Red River makes a doubl The rail line e	Yen Bay (town 1 tributary of, 1-covered hills to the N, 174! and 1676 feet 1., are brush-ce are brush and e horseshee tu	in the valley of and 0.5 NM NI and mountains feet 1.02 NM 8 NM to the SE vered low hills forest covered	of the SE-flow E from, the R Elevations to the E, 3820 To the SW, and rice-cult hills and motout 2 nautical	et above sea leving Red River. ted River. Tar rise to 1273 fe feet 2.8 nauti between the tativated valleys. untains. The R miles NW of the	It is get is in et 0.7 cal miles arget and West of and River
9. DEFE	NSE ENVIRON	MENT:		•	
a. Ti	ne target is wil	thin the SAM en	velope.		
	•	been identified		of the target.	
c. Hi	MG and small	arms fire is an	ticipated.	•	
				lic between Concollapse of at 1	
	a magali sagat anagga a sagat a magali sagat a				
II. EFFE	the state of the s	Destruction of	this bridge w	ould halt rail to	raffic on

the alternate route between Communist China and Ha Noi. It wo nouthward movement of apatite from the mines just S of Lao Cai. 12. RECUPERABILITY:

12. Line capacity: 12 Trains/3700 ST each way per day.

b. Emergency facility: Highway shuttle via a pontoon bridge or by fording the stream would permit about 1700 ST/Day after 7 days.

c. Bridge reconstruction: Emergency bridge restoration would permit full capacity within 2-4 weeks. Complete restoration to pre-attack status would SECKET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Holders).

TAB AAto Annex B to Appendix A

1-B-11-2

CET

	773-41	Control Control	- Tale Later was in.	A		
15.	COLLATERA	L DAMAGE:	TO THE REAL PROPERTY.		C	48578
	Canal William	ESCALAT AND		and the second		
	a. Insignific	nt, aremit and		and the latest the lat	And the State of t	2 387.
	b. Population			Camplelant		
	C. Williams				gertale in the second s	
	Target Area	Adjacent Are	T	arget Area	djacent Area	4
	Mil and Civ	MIL		dil Civ	AII CIV	5
	120	The state of the s		and the same of th		
	0	0 7 3 80 %		0	1	6 (A.1)
	*Casualties	stimated under d	ylight alert co	ditions.	djacent Area All Civ	7
	2000年100日	Service States	ENGLISH WATER	week.	place a regent of the last of	
14.	RECOMMEN	DED WEAPONS A	ND SORTIES:	army and a second		8
	a. In order	DED WEAPONS A	ired damage cr	iterion, weapons,	sorties	9
-qui re	d over target:	C. W. C. S. C.	The Property			10
	250		00#	500#	 750#	11
VEAPO	N SNAK	EYE OF SN	AKEYE or	BOMB or	вомв	12
	1619		2114	441/60	279/46	13
אירי א	15.)			341/00 (A. 11 (A. 11)	210/40	
	b. Weapons	Sorties operation	ally required to	achieve "over to	arget"	14
quire	ment shown a	bove:		y and wheeler the same of the	•	15
	344	/29 37 1	52/17	650/72	334/56	16
	100					17
15.	PROBABILI	Sorties operation bove: //29 TY OF ACHIEVIN	G DESIRED DA	MAGE CRITERIC	<u> </u>	
	a semi si salah da karangan Salah salah da karangan Salah salah salah da karangan		A STATE OF THE STA	1	•	
		77a			•	
	1975. (Bill) 1975. (Bill)	The second second			. ,	8
	4.1		Property (Control of Control of C	and the second s	•	
						- #
	energia de la		د المورد أو بعد شخص ات عن بالمناسخ بود در معاولات المراكزة (1946 ما يا 1950 ما يا			
			amamerican design of the Community of th			
	: اگون ه مداد	و عاملون مورد الا معهورون موامدته الا معهورون موامدته	rari, esteria Tari Tarini			**
	ta Santa	and the second		e.,		
	الله الله الله الله الله الله الله الله	Called	A STATE OF THE STA	محمد در ا	•	}
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		San		. 102		
					•	
		10000				
			The End Contract		Tarres de la companya	
	AT LIST				<u> </u>	
	Z			The second second	Maria de la Carta de	
			and the second			
	12 (1) ()					
•	A SAME OF THE SAME			in the state of	,	
	11800117	All Marian San San San	to the second	TO THE VIEW OF THE PARTY OF THE	CAUSE TOTAL	
			2	118	. 27	
	-1		The lead of		TABAA to	
	***************************************	(Revised		to Holders)	Annex B	to
			A-B-AA-3		Appendix	: N



TAB AE TO ANNEX B TO APPENDIX A

TARGET NO. 18.31



TOP LECRET

A-B-AE-1

Tab AE to Accord B to Appendix A

A Thereses Comments

A-B-AE-2

12. RECUPERABILITY: Restoration of bridge would be difficult and almost impossible in less than 2 - 3 menths if

piers were damaged. Ford could be rendered serviceable in a few days with a concentrated earth-mouth

Tab AE to Annex B to Appendix A 44

45

The Commence of the Commence o (Revised by 9th Note to Holders) a. In order to achieve the desired damage criterion, weapons/sorties required over target:

250# 250# 500# 750# 750# 80MB or 80MB or 80MB

67/5 290/24 10180/20 170/28

b. Weapons/sorties operationally required to achieve "over target" requirement shown above:

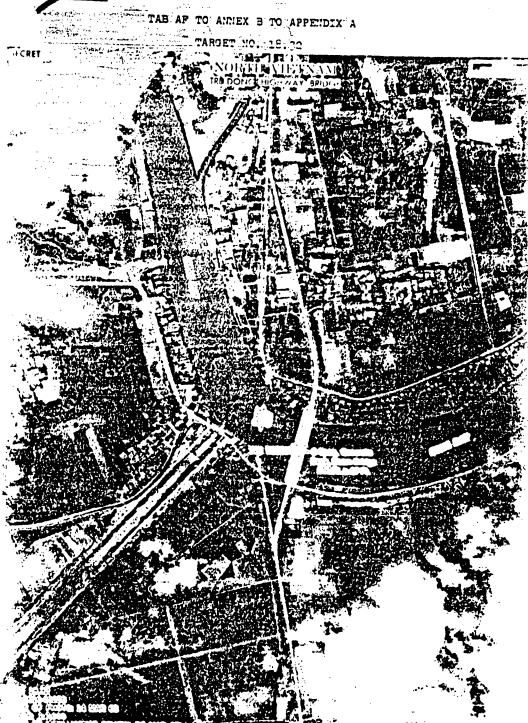
82/7 354/30 220/24 207/35

15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 85% Annex 5 to

(Revised by 6th Note to Holders - 25 March 1966)

Appendix A





A-B-AF-1

Tab AF to Add note Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.32	
	1
2. BE NUMBER: 616-0225	2
3. IDENTIFICATION: Tri Dong Highway Bridge over Song Day	3
DATE OF INFORMATION: March 1985 DATE OF TIS: 24 June 1965	*
5. LOCATION: 20-21-40N/105-55-40E, UTM WH 966516. Located on North Vietnam Route 1, at Tri Dong, approximately 7 NM NW of Ninh Binh, over the Song Day.	7
6. DESCRIPTION: Bridge, oriented N/S, replaced an adjacent ferry crossing in 1963 and is reported as longest prefabricated concrete bridge in North Vietnam. Deck type superstructure is 595 ft long with 8 equal spans and has a 27 ft roadway. Banks of the meandering Song Day have a moderate slope.	101111111111111111111111111111111111111
7. SIGNIFICANCE: Target is located on National Route 1, the primary highway communication route between Hanoi and southern North Vietnam. It controls traffic between the rail and minor port facilities at Phu Ly and Ninh Binh. Should this target be interdicted, there is a rail and highway bypass route via Nam Dinh. The detour would be approximately 19 NM longer than the through route.	14 15 16 17 18 19 20
8. TARGET ENVIRONMENT: Target at junction of Route 1 and south-flowing, 125-yd. wide Song Day (river). Terrain in most of target area consists of flat plains at elevation less than 30 ft above sea level; however, in northwestern section, rugged, forested hills rise up to 1,100 feet above surrounding lowlands. All arable land on plains under rice cultivation; gardens lined with trees common in towns. Many towns north, east and south of target area, but population density in northwestern hilly section sparse.	25 25 25 25 25 25 25 25 25 25 25 25 25 2
9. DEFENSE ENVIRONMENT:	30
a. No AAA defenses are known to be in the vicinity of this target. The closest site is located at Van Ha, 4 NM to the southwest, which comprises 8 occupied 57mm/85mm positions. (DOI: 12 February 1965).	31 32 34
b: AW defense would be anticipated since the 304th Infantry Division is located in this general area.	35 36
c. This target lies within the GCI capabilities of EW/HF radar at Hanoi.	37 38
10. DAMAGE OBJECTIVE: Interdiction of traffic between Hanoi and Southern North Vietnam. Damage criterion is destruction of at least one span.	39 1,0

TOP C MEN

A-B-AP-2

Tab AF to Annex B to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

13. COLLATERAL DAMAGE: Light damage to surrounding area	1
14. RECOMMENDED WEAPONS AND SORTIES:	2
weapons/sorties required over target: 250# 250# 500# 750# Weapons SNAKEYE or BOMB or BOMB	3.4
50/4 160/13 90/10 70/12	5
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	6 7
61/5 195/16 110/12 85/15	8
15. PROBABILITY OF ACHIEVING DAMAGE CRITERIA: 85%.	9

TOP OF MEET

A-B-AF-3

Tab AF to Annex B to Appendix A

ل ہ



TAB AN TO ANNEX B TO APPENDIX A TARGET NO. 18.33



TOP SPINET (Brised 31 August 1965)

A-B-AG-1

Tab AG to Annex B to Appendix A



TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.33	1
2. <u>BE NUMBER</u> : 616-0075	2
3. IDENTIFICATION: That Nguyen Hwy Br over Song Cau	3
4. DATE OF INFORMATION: 14 June 1966 DATE OF TIS: 20 June 1966 DATE OF PHOTOGRAPHY: 16 June 1965 DATE OF INTELLIGENCE REVIEW: 5 July 1965	4 5 7
5. LOCATION: 21 35-59N 105-50-30E, UTM WJ 869883, located on North Vietnam Route 1B just west of the city of Thai Nguyen.	8 9 10
6. <u>DESCRIPTION</u> : Oriented NE/SW, the bridge is a two-lane, seven span high level reinforced concrete beam and deck type structure with frame concrete piers and over-all dimensions of 325 x 25 feet.	11 12 13 14
7. SIGNIFICANCE: The target lies on a secondary road linking Route 3 with Route 4 at That Khe and is a potential alternate to Routes 1A and 3 between Hanoi and support areas in Kwangsi Province, China.	15 16 17 18
8. TARGET ENVIRONMENT: The target crosses the 300-foot wide Song Cau approximately 1,000 yards west of Thai Nguyen. The target area consists of flat plains and gently rolling low hills. The plains extend 2 to 3 NM north of the river and ½ to 2 NM to the south. Dissected hills, mostly to the northeast and south, rise 100 to 200 feet above the plains. Most of the area is cultivated in rice, but scrub and woods are scattered through the north and east. Many towns are located downstream from the target; remainder of the area is sparsely settled.	19 20 21 22 23 24 25 26 27 28
9. DEFENSE ENVIRONMENT:	29
a. Seven SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 11 additional SAM sites have been identified 18-30 NM distant.	30 31 32
b. Identified AAA activity in the Thai Nguyen area includes 10 active AAA sites, consisting of 75 occupied 57/85-mm revetments, 8 dummy 100-mm revetments and 16 dummy 57/85-mm revetments. In addition, there are 7 inactive sites in the area. (DOI: 17 August 1965 - 5 May 1966)	33 34 35 36 37 38
c. Intense HMG and small arms fire is anticipated from local militia and security forces, as well as units of the 312th Infantry Division.	39 40 41
To the second se	
10. DAMAGE OBJECTIVE: Interdiction of traffic between That Nguyen and Dong Dang. Damage criterion is destruction	42 43



A-B-AG-2

Tab AG to Annex B to Appendix A

(Revised by 8th Note to Holders)



			4.4	
11. EFFECT ON DR disrupt traffic be and Dong Dang. De interfere with the areas to the north	struction of the movement of range of the struction of the structure of th	terminus at Ti ne bridge would ne materials f	hai Nguyen d also rom mining	1 2 3 4 5
12. RECUPERABILI interdiction on a road network and be the southeast of tapproximately 1400 reactivated and prone or two days. ferry site could i or five days. Recurd require from	possible bypas ridge located the he target. An feet northeas ovide addition Installation of norease the by onstruction of	s via an alternation abandoned fer to the bridge al bypass capal a pontoon bridge to the bridge to the bridge to	nate mining 3400 yards to ry site located e could be bility within idge at the y within four	678910 112 1314 15
13. COLLATERAL D	AMAGE: Modera	te damage to s	urrounding area.	16
14. RECOMMENDED	WEAPONS AND SO	RTIES:	***	17
a. In order weapons/sorties	to achieve the required over	desired damage target:	e objective,	18 19
weapon: 250# Snakeye	250# or <u>BOMB</u>	or BOMB o	750# r <u>BOMB</u>	
55 / 5	230/19	135/15	100/17	20
b. Weapons/s "over target" r	orties operati equirements sh	onally require	d to achieve	21 22
67/6	280/23	165/18	122/20	23
15. PROBABILITY	OF ACHIEVING D	ESIRED DAMAGE	LEVEL: 85%	24

TOP CREE

A-B-AQ-3

Tab AG to
Annex B to
Appendix A

(Revised by 6th Note to Holders - 25 March 1966)



TAB AI TO ANNEX B TO APPENDIX A TARGET NO. 18.35



o Appendix A



TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.35	1
2. BE NUMBER: 016-0073	2
3. IDENTIFICATION: Cho Moi Hwy Br over Song Cho	3
4. DATE OF INFORMATION: 14 June 1966 DATE OF TIM: 20 June 1966 DATE OF PHOTOGRAPHY: 15 March 1965 DATE OF INTELLIGENCE REVIEW: 3 April 1905	4 5 0 7
5. LOCATION: 21-52-55N 105-46-26E, UTM WK 801195. Located on National Route 3, 0.7 NM east of Cho Moi, 0.7 NM E of the confluence of the Song Cho and Song Cau rivers.	8 9 10
196' x 15' bridge is a 3-span concrete decked part thru steel truss structure with a center span of 05 feet. Piers and abutments are of concrete. The banks of the meandering Song Cho are gently sloped. Stream width at the bridge site is approximately 100'. There is a prepared ford located 800' E of the bridge and possible alternate ford/ferry crossing 170') E of the site. Both are located on secondary roads leading	11 12 13 14 15 16 17 18
7. SIGNIFICANCE: Bridge located on road which links the South China border, near Cao Bang and Hanoi, and controls traffic between Thai Nguyen and Bac Can.	55 51 50
3. TARGET ENVIRONMENT: The highway is situated in the marrow valley of the Song Cau to the north and a small stream to the south. The valley floor is relatively flat, cultivated, and lightly populated. It is bordered by dense forests and steep mountains, thus, off-road movement is poor, with few exits from the main highway.	23 24 25 26 27 28
9. DEFENSE ENVIRONMENT:	50
c. Four SAM sites have been identified with SAV range (17.5 NM) of this target and 2 additional of the control 20-30 NM distant.	30 31 32
b. No AAA defenses have been identified in this area.	33
c. No military forces are known to be in this area; however, small arms fire from local militia would be anticipated.	34 35 30
10. DAMAGE ORJECTIVE: Interdiction of traffic between Thai Nguyen and Bac Can. Damage criterion is destruction of center span; damage to ford and possible alternate bridge.	37 38 39

TOP MERET

A-B-AI-2

This AI to Airre & B to Appendix A

(Revised bath Note to Holders)

11. EFFECT ON DRY' Effective dontinuous interdiction of this crossing site would seriously hamper the flow of highway 2 traffic between That Nguyen and Bac Can, and force traffic 3 between South China and Hanoi onto another route.

12. RECUPERABILITY: Pording possibilities in the vicinity 5 appear easy and should offer no difficulties for bypassing 6 the bridge within 1 - 2 days in time of low water. Temporary 7 measures to repair one damaged span with a timber trestle 8 would take up to a week. Restoration to original capacity 9 would take one to two months.

13. COLLATERAL DAMAGE; Insignificant.

14. RECOMMENDED WEAPONS AND SORTIES:

12.

13. In order to achieve the desired damage criterion.

13. weapons/sorties required over target; 14.

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

250%

260%

260%

270%

260%

270%

260%

270%

260%

270%

260%

270%

260%

270%

260%

270%

260%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270%

270% A-B-AI-3

Tab AI to
Annex B to
Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

453

.

Tierra Tierra

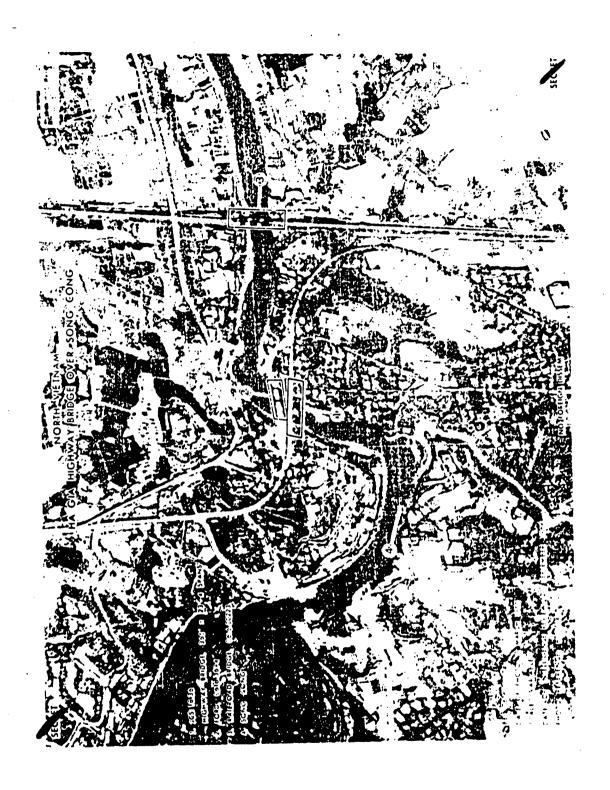
3

行の歌



11. EFFECT ON DRV: Effective continuous interdiction of this crossing site would seriously hamper the flow of highway traffic between Thai Nguyen and Bac Can, and force traffic between South China and Hanoi onto another route.	1 2 3 4
12. RECUPERABILITY: Fording possibilities in the vicinity appear easy and should offer no difficulties for bypassing the bridge within 1 - 2 days in time of low water. Temporary measures to repair one damaged span with a timber trestle would take up to a week. Restoration to original capacity would take one to two months.	56789 10
13. COLLATERAL DAMAGE: Insignificant.	11
14. RECOMMENDED WEAPONS AND SORTIES:	12
a. In order to achieve the desired damage criterion, weapons/sortics required over target;	13 14
250# 250# 500# 750# WEAPON: <u>SNAKEYE</u> or <u>BOMB</u> or <u>BOMB</u>	
115/10 500/42 300/33 215/36	15
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	16 17
140/12 610/51 366/41 262/44	18
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 859	19

A-B-AI-3
Tab AI to Annex B to Appendix A (Revised by 6th Note to Holders - 25 March 1966)





TARGET INFORMATION AND STRIKE DATA

	1.	TARGET NUMBER: 18.36	1
	2.	B.E. NUMBER: 616-0074	5
•	3.	IDENTIFICATION: Ha Gia Highway Br over Song Cong	3
	<i>1</i> 1.	DATE OF INFORMATION: 27 August 1968 DATE OF TISD: 5 November 1968 DATE OF PHOTOGRAPHY: 3 March 1966 DATE OF INTELLIGENCE REVIEW: 25 September 1968	4557
Route	5. 3. Cau	crossing the Song Cong near its confluence with the	8 '' 10
coner coner Cora (616-	nte ete (616 0223	rieck and steel half-thru trucs structure on slender piers with overall dimensions of 365 x 23 feet. One 5-369h) Is located just NE of the bridge, a railway bridge	11 12 13 14 15
wny b Route via t traff Boute Boute	etweetweetweetweetweetweetweetweetweetw	ero Ha Nol and the industrial center at Thai Nguyen. provides access from Kwangsi Province, China, to Ha Noi road complex at Cao Bang. Should the target be interdicted, to Ha Noi from the N could continue over the more distant and 2; direct highway traffile between Thai Nguyen and build be interrupted. There is an alternate rail LOC between	17 18 19 20 21 22 23
about nont nat eleva in th foor the t	300 plai tion ie ir drai arge	In with elevations under 70 feet NW of the target, some as reach 150 feet. Wetland rice cultivation predominates to make the higher areas contain mostly scrub and woods. inage necessitates a raised roadbed for 2 1/2 miles N of et. Predominantly wet soils around the target would make	25 26 27 27 29 33 33 33
	7.	DEFENSE ENVIRONMENT:	34
		a. The target is within the SAM envelope.	35
tarre	et.		36 37
	N.	e. HMG and small arms fire is anticipated.	38
	10.	DAMAGE OBJECTIVE: Destruction of at least one span.	31
	AITA .	traffic between the steel center at Thai Nguyen and the	110 111 112

HEC AT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Holdern) $\Lambda = H + \Lambda J + 2$

TAB AJto Annex B to Appendix A



a matter depending availabil repaired coun with	12. RECUPERABILITY: Limited bypass could be achieved within matter of hours over the existing ford and ferry bypasses epending upon the water level, condition of the crossings, and vailability of ferry equipment. The bridge could be temporarily epaired with timber deck and trestling or as an over-the-cable pan within 2 weeks. Reconstruction to full pre-strike status could a accomplished in 6-8 weeks.								1234567		
13.	13. COLLATERAL DAMAGE:										
	a. Lig	ht dam	age to	surroundin	g area				9		
	b.	Popu	lation			Casua	lties*		10		
•	Target	Area	Ad.jac	ent Area	Target	Area	Adjacen	t Area	11		
	Mil	Civ	Mil	Civ	M11	Civ	M11	Civ	12		
	0	0	O	380	0	0	0	4	13		
	*Casualties estimated under daylight alert conditions.										
14.	14. RECOMMENDED WEAPONS AND SORTIES:										
weapons/	a. In	order requir	to ach	leve the der target:	esired dam	age cr	iterion,		16 17		
WEAPON		250# SNAKEY	E or	500# SNAKEYE or		750# BOMB			18 19		
(365 x 2	3)	1384/1	.15	281/31	1155/128	187/31			50		
"over ta	b. Wea	ipons/s	ortles ment si	operation nown above:	ally requi	red to	achieve	:	22 21		
		1661/1	138	338/38	1386/154	225/38	5		23		
15.	PROBAB	ILITY (A ACII	FVING DESI	RED DAMAGE	CRITI	ERION: 8	35%	24		

HEUMT

MT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Holders)

TAB AJto Annex B to Appendix A

TAB AL TO ANNEX B TO APPENDIX A





TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.38	1
2. BE NUMBER: 616-0714	2
3. IDENTIFICATION: Dan Phuong Hwy Causeway ov Song Day	3
4. DATE OF INFORMATION: 12 August 1966 DATE OF TIS: 13 August 1966	4
DATE OF PHOTOGRAPHY: 12 February 1965	6
DATE OF INTELLIGENCE REVIEW: 19 April 1965	7
5. LOCATION: 21-04-25N 105-38-58E, UTM WJ 674304. Located on	8
North Vietnam Route 11-A approximately 14 NM WNW of Ha Noi. Cr. 1854:8	9
Song Day approximately 5 NM S of confluence with Red River and 10 NM E of town of Son Tay.	10 11
6. DESCRIPTION: Target is an earthen causeway (1) with a length of 600	12
It and topped by an 18 It wide roadway on an embankment approximately 20 It.	13
high. Causeway replaces a bridge crossing 1350 yds to the north. Bypass	14
conditions are easy with an alternate pedestrian crossing consisting of a 7 ft.	15
wide steel structure over a concrete dam approximately 900 yds north of	16
target. Approach roads to the causeway are on dikes. The Song Day narrows	17
to a small stream as it passes under the causeway through an opening no more	18
than 30 ft wide.	19
7. SIGNIFICANCE: The target, situated between Ha Noi and Son Tay, is	2 C
on a secondary road which could serve as an iternate to National Route 2	21
between Ha Nel and Ngoc Thap and the northwest rail line between Ha Noi and	22
Phu Tho on the Red River. Route 182 has two bottlenecks - a ferry at WJ	23
366478 over the Riviere Noire and another ferry at Phu Tho over the Red	24
River. Should the target be interdicted, an alternate crossing of the Song Day	25
would be at Hal Linh on National Route 6, approximately 12 NM to the south.	26
8. TARGET ENVIRONMENT: Target located on Song Day (river) in area	27
of broad flat plains, approximately 2,500 yards SW of Dan Phuong. Most of	28
area less than 30 feet above sea level. Wetfield rice cultivation predominates	29
except for orchards in NE and SE, and tree-lined gardens in towns. Many	30
towns in area. Good transportation net in area, including roads on fitls and	31
levees and numerous tracks and trails.	3.2
9. DEFENSE ENVIRONMENT:	43
a. Thirteen SAM sites have been identified within SA-2 missile range	54
(17.5 NM) of this target, and 18 additional SAM sites have been identified	15
18-30 NM distant.	16
b. Identified AAA activity in this area includes one active situ (4	37
accurried 37mm reversers) and 4 inactive sites. (DOI: 3 March 1966)	34



A-B-AL-2

Tab AL to Annex B to Appendix A

(Revised by 10th Note to Holders)



antic			nachine	gun and	small	arms fire f	rom lo	cal mi	litia would be	1 2	
between	10. DAMAGE OBJECTIVE: Interdiction of traffic on alternate to Route 2 ctween Ha Noi and Phu Tho. Damage criterion is damage to roadway and mbankment.										
						of this targe e to Route			ease the Noi and Phu	6 7 8	
12. modera from 3	tely	easy,	ABILIT requir	Y: Restong only e	oration arth-n	of any por noving oper	tion of ations	this ca	useway appears ould be done in	9 .10 11	
13.	co	LLATE	RAL D	AMAGE:						i 2	
	a.	None								13	
	ъ.		Popu	lation			Casu	alties	4	14	
		Target	Area	Adjacent	t Area	Target	Area	Adjac	ent Area	15	
		міі	Clv	Mil	Civ	Mil	Civ	Mil	Civ	16	
		0	0	0	25	0	0	0	O	17	
		*Casua	alties e	stimated	under	daylight al	ert cor	ditions	ı .	19	
14.	RE	СОММ	ENDED	WEAPO	NS AN	D SORTIES	i			19	
req		In ord			sired o	iamage crit	erion,	weapo	ons/sorties	. 20 21	
WEAPO	N	250 SNA		250# or BUL	LPUP	250# or BOMB		O# OMB o	750# or BOMB		
(600×1	8)	13,	/2	. 13/	7	50/5	•	0/6	50/9	22	
rec		Weapo			ationa	lly required	i to ac	nieve "	over target"	23 24	
•		16	/2	16/	8	61/6	(1/7	61/11	25	
	_					DESIDED I	24244	יב כפו	TERION: HSM	26	



A-B-AL-3

Tab AL to Annex B to Appendix A

(Revised by 10th Note to Holders)



TAB AO TO ANNEX B TO APPENDIX A TARGET NO. 18,41



174



1 MADOM MINORDA 30 hs	
1. TARGET NUMBER: 18.41	1
2. <u>BE NUMBER</u> : 616-0726	2
3. IDENTIFICATION: Ban Pom Lot Hwy Br S over Stream	3
4. DATE OF INFORMATION: February 1965 DATE OF TIS: 24 April 1965	4 5
5. LOCATION: 21-16-41N 103-00-30E UTM 48Q TJ 933541, located on Route 19 approximately 6 NM south of Dien Bien Phu.	6 7
6. DESCRIPTION: Bridge, newly constructed, is a steel half through truss, 3 spans with approximate length 260'; roadway width 12 feet and limited to one lane traffic. Water gap in the vicinity of the bridge site is 105'. The bridge is on a realigned section of road replacing an existing 160' ford approximately 1/4 NM to the east.	8 9 10 11 12 13
7. SIGNIFICANCE: The target lies on the principal route from the Dien Bien Phu area of North Vietnam into northern Laos. The importance of this border region is demonstrated by the fact that Route 19 has been under realignment and reconstruction and two trails leading west and south from the route have been developed into motorable alternate border crossings. Should the target be interdicted, Laos Route 44 could be used as an alternate.	14 15 16 17 18 19 20 21
8. TARGET ENVIRONMENT: Target is at the southern end of the Dien Bien Fhu plain, which is enclosed by rugged, forested mountains. The plain extends 11 NM N, 1 NM S, 1.3 NM B, and 5 NM W of target; it is mostly planted in rice, but open forest extends W from the target to the mountains. A steep embankment is located .5 NM NE of target.	22 23 24 25 26 27
9. DEFENSE ENVIRONMENT:	28
a. No AAA is known to be in the vicinity. The closest AAA defenses are located in the Dien Bien Phu military complex, approximately 7 NM to the north, and consists of 3 active sites with 62 occupied 14.5mm-37mm positions. (POI: 13 March 1985)	29 30 31 32 33
b. The 316th Infantry Division is located in the Dien Bien Phu military complex, and since this target is readily accessible, AW defense would be anticipated.	34 35 36
c. This target lies within the capabilities of the EW radar at Dien Bien Phu.	37 38
10. <u>DAMAGE OBJECTIVE:</u> Destruction of at least one span and damage to ford.	39 40
11. EFFECT ON DRV: Interdiction of this target would hinder traffic between the Dien Bien Phu area of North Vietnam and northern Laos.	41 42 43
12. RECUPERABILITY: Assuming higher bridge elevation and one main stream channel span of at least 75', this bridge could not be easily restored in event of interdiction. Recourse to improvement and use of old fording site as an	44 45 46 47
TO SECRET	

A-B-A0-2

Tab AO to Annex B to Appendix A



	easure is expensionally expenses in the contract of the contra			occurs at se reopened	1 2 3
13. COLLAT	ERAL DAMAGE:	Insignific	ant.		4
	ENDED WEAPONS				5
a. In weapons/s	order to achie	ve the desi	ired damage l Set:	evel,	6
Weapons	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
	160/13	660/55	290/32	200/33	8
b. Wea "over tar	pona/sorties o get" requireme	perational: nts shown s	ly required tabove:	o achieve	9 10
	195/26	804/67	353/39	243/40	11
15. PROBAB	XLITY OF ACHTE	VING DAMAGE	7 CPTTPPT(N).	0=%	10



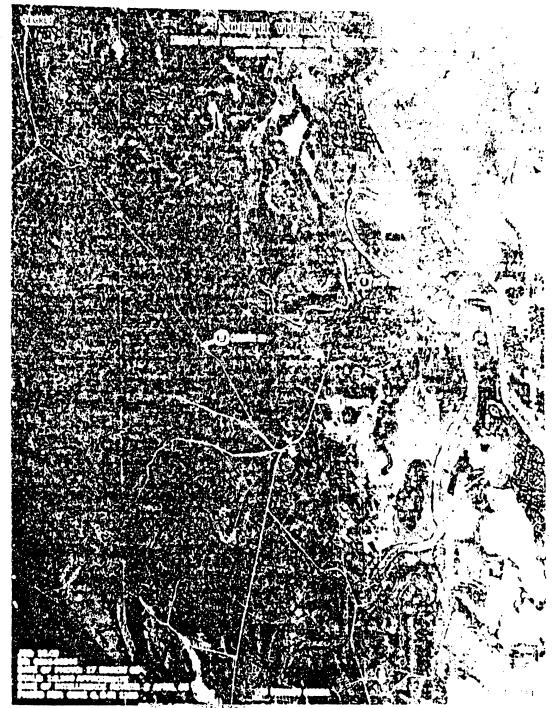
A-B-A0-3

Tab AO to Annex B to Appendix A



TAB AP TO ANNEX B TO APPENDIX A

TARGET NO. 18.42



TOP SECRET (B leed by 10th N/H)

A-B-AP-1

The AP to Annex B to Appendix A

177



1. TARGET NUMBER: 18.42	1
2. BE NUMBER: 616-0244	2
3. IDENTIFICATION: Xuan Mai Hwy Br ov Song Con	3
4. DATE OF INFORMATION: 12 August 1966	4
DATE OF TIS: 13 August 1966	5
DATE OF PHOTOGRAPHY: 17 March 1965	6
DATE OF INTELLIGENCE REVIEW: 2 April 1965	7
5. LOCATION: 20-54-28N 105-36-00E, UTM WJ 624113. Located un	8
National Route 6, approximately 18 NM SW of Ha Noi.	9
6. DESCRIPTION: Bridge (1), oriented NE/SW, recently constructed on	. 10
new road alinement replacing partially dismantled old steel truss bridge.	11
Overall dimensions 225 ft by 18 ft; reinforced concrete deck-type structure.	12
Pier supports are undetermined. This bridge has embanked concrete	13
abutments.	14
7. SIGNIFICANCE: This bridge carries traffic on Route 6 over the Song	. 15
Con and is situated between the capital city of Ha Not and Hoa Binh. Route 6	16
is a limited all-weather road providing access to northwestern North Vietnam	n 17
and several border crossing points into northern Laos primarily in the	18
vicinity of Dien Bien Phu and east of Sam Neua.	19
8. TARGET ENVIRONMENT: The bridge crosses the Song Con about 25	ე 20
yards NW of river's confluence with the Song Day; the Song Con is about 90 for	ret 21
wide at this point. Within a two NM radius of the target, flat, poorly drained	d 22
plains at an elevation of 30 to 65 ft predominate. Flat plains give way to	23
rolling plains about 1.1 NM W of target. Wetland rice covers most of area	24
grasslands are found about 1.1 NM W and SW of target.	25
9. DEFENSE ENVIRONMENT:	26
a. Ten SAM sites have been identified within SA-2 missile range	27
(17.5 NM) of the target, and 15 additional SAM sites have been identified	28
18-30 NM distant.	29
b. Identified AAA activity in this general area includes 5 acrive sites	30
containing 40 occupied 57mm/85mm revetments and 14 inactive sites. In	
addition, there are 11 sites approximately 3 NM to the north in the Hoa N	
area. These sites comprise 32 occupied and 54 unoccupied 57mm/85mm	
positions. (DOI: 7 November 1965 - 3 March 1966)	34
c. Intense HMG and small arms fire is anticipated from the Xuan Ma	ai 35
Army Barracke SSW and from the Yuan Mai Army Barracka NNW. Hoa h	



A-B-AP-2

Tab AP to Annex B to Appendix A

(Revised by 10th Note to Holders)



10. northe	DA rn L	MAGE	OBJEC Damage	TIVE: I	nterdi n is d	ction of	traffi	c betv at lea	een NV	V NVN and	1 2
11.	EF	FECT (ON NVI	 Ve Treend	والمأوا		•	 1		r traffic betwe	
northw	este	rn Nor	th Viet	nam and	north	i oi inis ern Lane	wrge	muld t	a ninae Nie beir	r trailic betwe	een 3 4
interdi	ctec	i, a byp	ass of	consider	able (listance	would	be re	quired	to cross the	5
Song C	on.	**************************************	3 ld des.	MARINETT ALE		n					6
And the second of the second o											
									: s 7		
the state of the s											
ADARA.		breset	ed re	se site w	ithin (one week	. 11 (he br	idge ha	s two stream ly 45 ft could	9 10
be effe	cte	i within	the ear	me perio	ne ua: A.	neger st	an oi	appro	ximate	ily 45 it could	11
		- ** • • • • • • • • • • • • • • • • • •		me porto	٠.						••
13.	CO	LLATE	RAL D	AMAGE:							12
								•			
	a.	Insigni	ficant								13
								_			
	ъ.		Popu	ilation .				CASU	alties*		14
		Target	Area	Adjacer	nt Arc	a Ta	rget .	Area	Adjac	ent Area	15
		Mil	Civ	Mil	Civ	Mi	1	Civ	Mil	Civ	16
		0	0	0 -	50	()	0	0	3	17
		*Casua	alties e	stimated	unde	r dayligl	nt ale	rt con	ditions	•	18
14.	RE	сомм	ENDEL	WEAPO	A EN	ND SORT	TIES:				19
	•	In and		chieve de		damaca		-100	Webbo	ns/sorties	20
re		ed over				commen	CILLO	1 1011,	weahor	15/ 501 1165	21
-	7			•							•
			250	•		250#		500	j	750#	
WEAP	NO		SNA	KEYE	or	BOMB	or	BON	AB or	r BOMB	
(225×1	8)	•	80	/7		350/30		200	/23	165/28	22
	ъ.	Weapo	ns/sc=	ties oper	ration	ally regu	iired	to act	deve "c	over target"	23
re		ements				,					24
	••										
			98	/9		427/36		244	/28	195/33	25
15.	PF	ROBABI	LITY	F ACHI	EVIN	DESIR!	ED DA	AMAC	E CRIT	ERION: 85%	. 26

TOP SECRET

A-B-AP-3

Tab AP to Annex B to Appendix A

(Revised by 10th Note to Holders)



TAB AR TO ANNEX B TO AFFERDIX A TARGET NO. 18.44





1.	. TARGET NUMBER: 18.44	1
2.	. <u>BE NUMBER</u> : 617-0979	2
3.	. IDENTIFICATION: Phuc Thiem Hwy Br ov Stream	3
. 4.	. DATE OF INFORMATION: March 1965 DATE OF TIS: 5 July 1966	4 5
on No	. <u>LOCATION</u> : 18-57-51N 105-34-20E UTM WF 602968. Located orth Vietnam Route 7 approximately 2 NM WSW of the junction loutes 1 and 7 at Yen Lang.	δ 7 8
of 1	00 x 15 feet. The approach road is elevated both east west of the bridge with two earthen causeways crossing	9 0 1 1 2 1 3
7 prim cent and	mary supply routes to Viet Mirh and Pathet Lao units in the lace. It controls highway traffic between Route 1	14 15 16 17
flat cana off- surr Popu farm	t coastal plain dissected by several small rivers and als. The madway is embanked in the target area, making rounding area is cultivated to the fullest extent. Illustron density is light and is restricted to small ming clusters, none of which are located in the immediate	18 19 20 21 22 23 24 25
vici appr evid targ	inity of this target and the closest sites are reximately 20 NM distant. No AW defenses or trenching are	26 27 28 29 30 31
Rout	O. DAMAGE OBJECTIVE: Interdiction of traffic between te 1 and Vinh Son. Damage criterion is destruction of bridge and east approach causeways.	32 33 34
eff	1. EFFECT ON DRV: Interdiction of this bridge would ectively halt vehicular traffic between Route 1 and Vinh requiring a lengthy detour to the north over Route 116 Phu Qui and south to Vinh Son on 117 extended.	35 36 37 38
representation real	2. RECUPERABILITY: Interdiction of the bridge and term approach causeways would require extensive earthwork sairs to recover trafficability. Most likely recovery sure of the bridge would be to install a reduced capacity therefore the bridge would be to install a reduced capacity therefore the bridge replacement could be accomplished in one week to ten days. Reconstruction of the bridge to strike capacity could be accomplished in four to six	3444444



A-B-AR-2

Tab AR to Annex B to Appendix A

(Revised by Oth Note to Holders)



COLLATE	RAL DAMAGE	1			٠.			1
a. Insi	gnificant			.,			_	2
b. Popu	lation				Ca	sualtie	g#	3
Target	Area Adj	acent	Area	Target	Area	Adjace	nt Area	4
	Civ Mil				Civ	Mil	Civ	5
•	0 0)	5	0	0	0	1	6
*Casual	ties estim	ated	under d	aylight	alert	conditi	ons.	7
14. RECO	MENDED WE	APONS	AND SO	RTIES:				8
a. Ir weapons/	order to	achi equir	eve the	desire target	d dama;	ge crite	rion,	9 10
Weapon	250# Snakeye	or	250# BOMB		0// <u>MB</u> or	750# BOMB		
	190/16		750/63	45	0/50	350/5	8	11
b. We	eapons/sor rget" req	ties d uirem	perati	onally own abo	require ve:	d to ac	hieve	12 13
•	232/19		915/77	54	9/61	427/7	1	14
15. PROBA	BILITY OF	ACHI	EVING D	AMAGE C	FITERIO	ON: 85%		16

TOP SECRET

A-B-AR-3

Tab AR to Annex B to Appendix A

(Revised by 9th Note to Holders)

TAB AT TO ANNUA B TO ACCENDING

TARGET 60 . 18:46



TOP SCRET (Re 1sed 31 August 1965)

A-B-AT-1

Isb (I to April I to



TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER: 18.46	1
2. BE NUMBER: 617-0975	2
3. IDENTIFICATION: Xom Thai Xa Hwy Br over Stream	3
4. DATE OF INFORMATION: 23 June 1965 DATE OF TIS: 5 July 1966 DATE OF PHOTOGRAPHY: 1 June 1965 DATE OF INTELLIGENCE REVIEW: 10 June 1965	4 5 6 7
5. LOCATION: 18-40-37N 105-36-33E, UTM WF 643650. Located on Route 15, 3.5 NM W of Vinh, over unnamed stream; possibly a canal.	8 9 10
6. DESCRIPTION: Oriented E/W with over-all dimensions of 120 x 10 feet, the bridge is a three span reinforced concrete beam and deck structure on concrete frame piers. There are six bridges of apparent low capacity located within approximately 3 NM which could serve as alternate crossings of the stream.	11 12 13 14 15 16
7. SIGNIFICANCE: Located on Route 15 between its junction with Route 7 and Vinh. This route serves as one of the alternates to the coastal Route 1 and provides access to Laos through the Barthelemy Pass.	17 18 19 20
8. TARGET ENVIRONMENT: Terrain is generally flat, interspersed with streams which, although narrow, would provide some hindrance to cross-country movement. A narrow chain of rugged hills directly to the N rise to an elevation of 550 feet. Wetland rice cultivation predominates, and the area is moderately populated with numerous small villages. There is an unknown industry, possibly a concrete manufacturing plant, located at the W end of the bridge.	21 22 23 24 25 26 28
9. DEFENSE ENVIRONMENT:	29
a. No AAA defenses have been identified in the immediate target area. However, target is only 3.5 NM west of Vinh which is the center of an extensive AAA network. There are 11 active 57mm/85mm sites (88 positions occupied, 4 positions unoccupied) 2 active 14.5mm-37mm sites (6 occupied positions) and an occupied 3-position 12.7mm site. There are 19 inactive sites in the area (2 under construction) containing 134 57mm/85mm positions and 6 14.5mm-37mm positions.	30 31 33 33 35 35 37 38
b. There are 3 EW radars, a height finder and 5 fire control radars in the Vinh area. There are also 3 EW radars at Anh Son.	20 40 41
c. In addition to AAA battalions and signal troops there are two independent infantry regiments reported in the Vinh area.	42 43
10. DAMAGE OBJECTIVE: Interdiction of minor bridges in area. Damage criterion is destruction of at least one span.	44 4.;



Tab AT to Annex B to Appendix A

(Revised by 9th Note to Holders)



12. rerou local forme month avail	RECT ting road road r com , ass	UPEF tra is indit sumi	RABILI Iffic In the	TY: Im over the area. Ind capa	truction a possib mediate be e substar Reconstracity show amage, or structure	ole inter oypass wo ntial net ruction o nld take n the bas	uld be work of f the no mor	en of Rouse attempts of seconds bridge to than a possible	te 1. ed by ary	3456789
-	·····		11.5	DAMAGE:		Barrier Barrier State	٠.	•		10
					surroundi	ng area	٠			11
	b. P	opu	latio	n err			Cası	ualties*		12
	Targ	et .	Area	Adjac	ent Area	Target	Area	Adjacen	t Area	13
• •	Mil .		Civ	Mil	Civ	Mil	Civ	M11	Civ	14
	0		•	• 0	300	0	0	0	59	15
•	*Cas	ua 1	ties	estimat	ed under	daylight	alert	conditio	ns.	16
14.	RECO	DNIME	NDED	WEAPONS	AND SORT	TIES:				17
We	a.]	In c	rder rties	to achi requir	eve the d	lesired d	amage	level,		18 19
WEAPO	N:		O# IAKEYE	or	500# BOMB 0	750# POMB		1000# BOMB		
		39	0/33		800/89	445/	74	390/13)	20
	b. i	Weap targ	ons/s	orties equirem	operation ents show	nally req on above:	uired	to achie	Ve	22 21
		47	6/40	67 min.	976/109	543/	90	476/15	9	23
15.	PROI	BABI	LITY	OF ACHI	EVING DAM	AGE CRIT	ERION:	85%	•	24

TOP ACRET

A-B-AT-3

Tab AT to Annex B to Appendix

(Revised by 9th Note to Holders)



TAB AU TO ANNEX B TO APPENDIX A TARGET NO. 18.47



186



1. TARGET NUMBER: 18.47	1
2. BE NUMBER: 617-0258	2
3. IDENTIFICATION: Ly Nahn Hwy Br ov Song Bang	3
4. DATE OF INFORMATION: March 1965 DATE OF TIS: 1/2	4
5. LOCATION: 19-00-24N 105-35-33E, UTM WG 623014. Locate 1 NM W of Ly Hahn on Route 1.	
6. DESCRIPTION: Oriented N/S with overall dimensions of 390' x 21', this bridge is a 5-span concrete deck-type structure with concrete piers and abutments. Both approaches are elevated and the approach roads are built on levees. A by pass is available over local roads utilizing a low-capacity bridge approximately 1 NI to the south. The naturally shallow-sloped banks of the Song Bang are diked in this region to control flood waters.	8 9 10 11 12 13 14 15
7. SIGNIFICANCE: Bridge is on the road which links Vinh with Thanh Hoa and other points north. National Route 7 connects with this road approximately two NM south of the target.	16 17 18 19
8. TARGET FAVIROIMENT: The bridge is on the low-lying coastal flatlands less than 2 NM inland from the Gulf of Tonkin and approximately 30 NM north of Vinh. The south shore area is approach populated and there is a small village on the north shore, although the overall population density is light as the region is cultivated.	20 21 22 23 24 25
9. DEFENSE ENVIRONMENT: No AAA defenses have been identificated in the target area and no operational troops are known to be nearby. However a fire control radar has recently been reported at Cap Falaise 10 NM NE and probably an AAA site of at least 8 medium (57mm-85mm) positions is associated with it. In this area are also 6 unoccupied coastal gun positions and an associated system of trenches approximately 600 yds from the beach. A support building is just inland. 10. DAMAGE OBJECTIVE: Destruction of at least one span.	27 28 29 30 31 32 33
EFFECT ON NVN: Interdiction of this bridge would hamper his 'ay traffic between Vinh and Thanh Hoo, and would interfere with the flow of supplies from the north into Laos via Ruite 7.	34 35 37 38
12. RECUPERABILITY: Upon interdiction of this bridge essential traffic would be routed over the low-capacity bypass to the south. A full capacity bypass utilizing a three-span steel truss rail bridge (B.E. No. 617-0022) located approximately 2 NM to the south over the bed of a dismantled rail line could be in use within one or two days. The average 80' length of over-water span would require at least 4 weeks to place back in operation with concrete construction to match the present design. Expedient bridging would have to depend on other resources than in the local area. Most likely	30112345678



Tab AU to
Annex B to
Appendix A

(Revised by 7th Note to Holders)

TOP SCRET

rest material source would be timber which, with additions ediate repair, could be used to close a spare gap within ays once available on site. Reduced load capacity would ain a problem at this point.	1 1 2 3 4
3. COLLATERAL DAMAGE: Light	5
4. RECOMMENDED WEAPONS AND SORTIES:	6
a. In order to achieve the desired damage criterion, weapons/sorties required over target:	7
250# 250# 500# 750# Weapon: SNAKEYE or BOMB or BOMB or BOMB	
55/5 240/20 140/16 100/17	9
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	10 11
67/6 293/24 175/20 127/21	12
5. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 85%	13

TOP ECRET

A-B-AU-3

Tab AU to Annex B to Appendix A

(Revised by 7th Note to Holders)



TAB AW TO ANNEX B TO APPENDIX A TARGET NO. 18.49



A CONTRACTOR OF THE PROPERTY O	
1. TARGET NUMBER: 18.49	1
2. BE NUMBER: 617-0978	2
3. IDENTIFICATION: San Dinh Hwy Br ov Song Kien	3
4. DATE OF INFORMATION: February 1965 DATE OF TIS: 15	ر. خ
5. LOCATION: 18-24-03N 105-43-41E, UTM WF769345. Located on an unnumbered route near San Dinh, approximately 12 NM inland from the Gulf of Tonkin.	6 7 8
meandering Song Kiem has sharp banks in this area, with a	9 10 11 13 14
	15 16 17
immediats are. of the bridge, is relatively flat with many small villages. Wetland rice cultivation predominates. Approximately 4 NM to the south, a rugged chain of hills	18 19 20 21 22
9. DEFENSE ENVIRONMENT: No AAA is known to be in the vicinity of this target. The closest AAA defenses are 2 active sites (2 occupied 12.7mm positions and 4 occupied/1 unoccupied 14.5-37mm positions) at Ha Tinh, approximately 13 NM to the southeast. (DOI: 30 Jan, 17 March 1965) No ground force elements are known to be in this area. The target is covered by EW radar at Ha Tinh and also lies within the EW/HF radar capabilities of the Vinh complex.	23 24 25 26 27 28 29 30
10. <u>DAMAGE OBJECTIVE</u> : Interdiction of triffic between Routes 82 and 1. Damage criterion is destruction of at least one span.	31 32 33
11. EFFECT ON DRV: Destruction of this bridge would hinder the flow of traffic attempting to bypass Route 1 in the event of its interdiction.	34 35 36
12. RECUPERABILITY: As an immediate measure, essential traffic could be routed over the ford to the south. However, this would involve the use of an extremely low capacity road, probably no more than a trail, which would require extensive improvement before withs anding heavy traffic. Repair or reconstruction of the bridge would take from one to three months depending on span lengths and availability of materials	37 38 39 40 41 42
13 COLLATERAL DAMAGE: Insignificant.	44

TOP CRET

A-B-AV-2

Tab AW to Annex B to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

TOP SCRET

14. RECOMMENDED WEA				1
weapons/sorties re	achieve the dequired over to	sired damag irget:	e criterion,	2
Weapon: SNAKEYE	250# DOME or	500# DOME or	750# BOMB	
13/11	555./46	355/37	310/52	4
"over target" requi	les operations lrements shown	illy require Labove:	d to achieve	50
164/13	677/56	433/48	378/63	7
15. PROBABILITY OF	CHIEVING DAMA	GE CRITERIO	<u>N</u> : 85%	8

TOP ECRET

A-B-AV-3

Tab AW to Annex B to Appendix A

(Revised by 7th Note to Holders)



TAB AX TO ANNEX B TO APPENDIX A

TARGET NO. 18.5



Tob AX to Annex B to Appendix A



1. TARGET NUMBER: 18.5		1
2. BE NUMBER: 617 . 0022		2
3. IDENTIFICATION: Dien Chau Railro	ai Bridge over Song	3
4. DATE OF INFORMATION: 18 January	20 Dec 1965	5 6
5. LOCATION (Geographic and UTM Grid 20N/105 34 55E UTM 48Q WF 613978. Loca railroad 24 miles north of Vinh and 2 m Chau.	ited on the Hanoi-Vinh illes southwest of Dien	7 と 9 0
6. DESCRIPTION: Oriented north/sout steel through-truss construction, 2 construction, 2 construction.	1	2
7. SIGNIFICANCE: This target is a method only rail line between Handi and Vi	major bridge located on 1 nh. 1	5
8. TARGET ENVIRONMENT: Target about and 2.6 miles inland. Belt of sand durally along coast to west. Between dures and fields mixed with areas of low scrub for meanders West, East and Northeast of tamiles northeast of target (Dien Chau) a between .5 and 1 mile northwest of target native settlements located in areas of	les, 100 to 300 ft. wide, 1 target, wetland rice 1 trest. Song Con Da 1 trest. Large town 1.7 2 and 3 large villages 2 tet; elsewhere scattered 2 scrub forest.	785012
9. DEPENSE ENVIRONMENT: There is no in the vicinity of this target. The clarea is approximately 16 NM to the west 324th Infantry Division, with a total s 12,500, is located in the Song Ca river known AAA or radar in the target area.	osest known military 2 at AHN SON where the 2	5 6 7 8
10. <u>DAMAGE OBJECTIVE</u> : Destruction of	at least one span. 3	0
11. EFFECT ON DRV: Destruction of th through rail transport about 24 miles n	is target would stop 3 orth of Vinh. 3	1 2
12. RECUPERABILITY:		
a. Line capacity: TD 9 2900	(EWPD) 3 ST/Day 3	3
water	on bridging and inland 30 craft would probably pro- capacity 1000 ST/Day. 3	36
and p weeks ST/Da	e-attack capacity 7 to 8	37



A-B-AX-2

Tab AX to Annex B to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

9:37

TOP CORET	
the state of the s	
13. COLLATERAL DAMAGE: Insigni. Leur.	1
14. RECOMMENDED WEAPONS AND SORTIES:	2
a. In order to achieve the damage criterion weapons/sorties required over target:	34
250# 500# 750# 1000# Weapon: SNAKEYE or BOMB or BOMB	
150/13 275/31 180/30 125/42	5
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	6 7
183/16 340/38 220/37 152/51	8
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%	9

TOP SECRET

A-B-AX-3

Tab AX to Annex B to Appendix A

(Revised by 7th Note to Holders)

TAB AZ TO ANNEX Z TO APPENDIX A

TARGET NO. 18.52



195

TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER: 18.52	1
2. B.E. NUMBER: 617-0174	2
3. IDENTIFICATION: Xom Gia Hwy Br ov Song Gia	3
DATE OF INFORMATION: 8 July 1968 DATE OF TISD: 3 December 1968 DATE OF PHOTOGRAPHY: 17 March 1965	456
DATE OF INTELLIGENCE REVIEW: 17 October 1968 5. LOCATION: 18-25-01N 105-48-30E, located on National Route 1A at Xom Gia, approximately 11 NM SE of Vinh.	7 8 9
6. PESCRIPTION: Criented E/W with over-all dimensions of 260' x 15', the bridge is a 5-span structure with one long' (140') half-through steel truss span and 4 probable concrete beam, deck type spans. Pier support for the long southern span is a boxed timber pile bent while the remaining three piers are open ladder frame concrete bents. The bridge was reported as in poor condition in 1961 but has since been reconstructed. The bridge approaches are elevated and embanked. Height of deck above water is estimated at 40'.	13
7. SIGNIFICANCE: Bridge located on Route 1A, the principal nighway connection between Vinh and South Vietnam. Route 12, which enters Laos through the Col de Mu Gia, joins Route 1A at Ha Tinh.	53 53 51 50
3. TARGET ENVIRONMENT: The bridge lies in the low-lying coastal flatlands, d NM inland from the Gulf of Tonkin. The area is generally cultivated and lightly populated in the vicinity of the bridge.	24 25 26 27
9. <u>DEFENSE ENVIRONMENT</u> :	28
a. The target is within the SAM envelope.	29
b. AAA activity has been identified within 3 NM of the targut.	30 31
c. HMs and small arms fire is anticipated.	32
10. DAMAGE OBJECTIVE: Interdiction of traffic from Vinh into South Vietnam. Damage criterion is collapse of at least one span and dmage to adjacent ferry.	33 34 35
Vietnam along the coastal Route 1A, and also restrict	36 37 38 39

SEC AT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 17th Note to Holders)

Tab AZ to Annex B to Appendix A



West (BE 617-5 Recovery of li section across Weeks. Restor and condition	cent to the 341) locat mited traff a damaged ation of to could take	Immediate bypass way of Xom Gia e bridge and Xom ed 400 yards NW fic flow with a 140-foot gap may he bridge to its up to 3 months.	nwy Ferry Gia Hwy F of the bri temporary	(BE erry dge. timber	12345678
13. COLLAT	•				9
		ONS AND SORTIES:			10
criterion weap	order to a	achieve the desir s required over t	ed damage arget:		11 12
WEAPON	250# Snakeye	500# or SNAKEYE or	500# BOMB or	750# BOMB	13 14
(260' x 15')	184/15	81/9	342/38	176/29	15
achieve "ovar t	pons/sorti arget" req	les operationally quirement shown a	required bove:	to	16 17
	221/18		411/46	212/35	18
85% PRCBABI	LITY OF AC	HIEVING DESIRED	DAMAGE CRI	TERION:	19

SEC LET

A-B-AZ-3

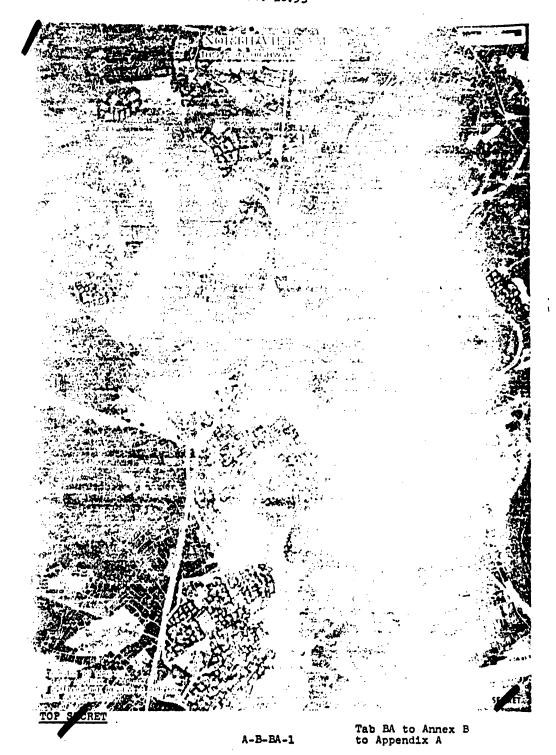
(Revised by 17th Note to Holders)

Tab AZ to Annex B to Appendix A

157



TAB BA TO ANNEX B TO APPENDIX A TARGET NO. 18.53





1. TARGET NUMBER: 18.53	1
2. BE NUMBER: 617-0971	•
3. IDENTIFICATION: The Son Hwy Bridge over Song Nghen	•
	3
4. DATE OF INFORMATION: Merch 1965 DATE CF TIS: 14 April 1965	ji Š
5. LOCATION: 18-27-22N 105-46-43E, UTM WF 822407. Located on National Route 1, at The Son.	1 6
6. <u>DESCRIPTION</u> : Oriented NNW/SSE; cverall dimensions 360' x 12', deck type, probably concrete. Ford on eastern side of bridge. Over meandering stream, approximately 300' wide, with gently sloping banks.	8 9 10 11
approximately if am south of the bridge.	12 13 14 15
the Gulf of Tonkin. A hilly area begins 3 NM to the north rising eventually to an elevation of 2200'. Area is generally cultivated with moderate population in the vicinity of the bridge.	16 17 18 19 20 21
9. DEFENSE ENVIRONMENT:	22
sites (2 occupied 12.7 positions and 4 occupied/1 unoccupied 14.5mm-37mm positions). Approximately 16 NM SE of the target is the Vinh military complex which has 15 active and 19 inactive AAA sites. (DOI: 30 Jan, 20 and 22 Feb, 17 and 19 March 1965)	23 24 25 26 27 28 29 30
b. AW defense would be anticipated due to the strategic importance of Route 1 and the proximity of a reportedly regimental-size military element and Ha Tinh and the major military complex at Vinh.	31 32 33 34
c. This target lies within the EW capability of Ha Tinh and the EW/HF radar at Vinh.	35 3 6
to reactions span, and damage to adjacent ford.	37 38 39
inder the flow of highway transport from Vinh into Scuth letnam along the coastal Route 1, and also restrict access to Laos via Route 12.	12
Basure would be the reactivation of the adjacent ferry site 4	456

TOP PERET

A-B-BA-2

Tab BA to Annex B to Appendix A



in 2-3 days to full pre	ist of the brintly fordable. It is estistrike capaci	. Such a by mated that	ypass could the bridge o	be completed	1 2 3 4
- 13. COLLA	TERAL DAMAGE:	Moderate	• • • •		5
14. RECOM	mended weapon:	S AND SORTI	<u>28:</u>		6
weapons/	order to achi sorties requi	leve the der red over tar	sired damage rget:	criterion,	78
Weapons	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
	65/5	260/22	150/17	130/22	9
b. Wes	apons/sorties rget" require	operationa ments shown	lly required above:	to achieve	10 11
	79/6	317/27	183/21	159/27	12
15. PROBA	CILITY OF ACH	IEVING DAMA	GE CRITERION	<u>!</u> : 85 %	13

TOP ECRET

A-B-BA-3

Tab BA to Annex B to Appendix A

(Revised by 7th Note to Holders)



TAB BB TO ANNEX B TO APPENDIX A TARGET NO. 18.54





, 1. TARGET NUMBER: 18.54	1
2. BE NUMBER: 617-0178	2
3. IDENTIFICATION: Ha Tinh Hwy Br over Song Nai	3
4. DATE OF INFORMATION: 23 June 1965 DATE OF TIS: 5 July 1966 DATE OF PHOTOGRAPHY: 14 May 1965 DATE OF INTELLIGENCE REVIEW: 11 June 1965	567
5. LOCATION: 18-19-07N 105-55-04E, UTM W? 970255. Located on North Vietnam Route 1 approximately 2 NM southeast of Ha Tinh.	8 9 10
or 220 x 15 feet, the bridge was constructed in 1961 to replace a ferry crossing still in serviceable condition and located adjacent to the bridge. It is composed of a central steel half-thru truss of 110 feet length supported by two braced timber piers and two timber deck shore end sections of three spans each and 55 feet length supported by smaller timber bent piers. The decking is timber throughout and	11 12 13 14 15 16 17 18
7. SIGNIFICANCE: The bridge carries traffic on Route 1 between Vinh and Dong Hoi. Since the railroad is not in operation south of Vinh, Route 1 is the primary overland line of communication to the south of Vinh.	20 21 22 23
8. TARGET ENVIRONMENT: Target crosses the Song Nai (river) about 1.3 NM southeast of Ha Tinh and lies in a low flat coastal plain with elevations under 25 feet. The river is about 200 feet wide at the bridge site. Rice fields are predominant in the area with scattered patchet of scrub. Several small population centers are in the target area with one located at the northwest shore. Bypass possible but difficult by ferry about 2 NM NNE of the target. Off-road movement is impossible due to diked road construction on both sides of the target.	24 25 26 27 27 27 27 27 31 32 33
9. DEFENSE ENVIRONMENT:	34
a. No AAA is known to be in the immediate vicinity of this target; however, Ha Tinh defenses consist of 2 active AAA sites (2 occupied 12.7mm positions and 4 occupied/1 unoccupied 14.5mm-37mm positions) and 1 inactive site (3 dismantled 14.5mm-37mm positions). (DOI: 30 January and 17 March 1965).	353333333333333333333333333333333333333
b. It is anticipated that AW defense would be present since reportedly there is up to a regiment located at Ha Tinh.	43 43
c. Ha Tinh has EW radar and this target also falls within the GCI capabilities of Vinh radar.	45
10. DAMAGE OBJECTIVE: Interdiction of traffic between Vinh and Dong Hol. Damage criterion is destruction of at	46



A-B-BB-2

Tab BB to Annex B to Appendix A

(Revised by 9th Note to Holders)

		man up								
through interrupt route of joins Ro	pted; low oute	highwa er capa l at Th	y traf city v o Dan.	fic course Rout	vinn ld be es 12	rerou	ng Ho ted or and	i would ver a lo 106 which	be	12345
by the days. Emergence and spar The esti	y by insta This by re- n and imate	the DRV llation include constru repair of res	orews of a s rebu ction of de torati	, immed ferry c ilding of nort	iate rossi the a hern	restori ng may pproaci bridge	ation take road	of servat least and repairs an	st 10 imps. outment	6 7 8 9 10 11 12 13
13. <u>cc</u>										14
1	Ligh	t damag	ge to a	Burround	ing a	rea				15
b.	Popu	lation				•	Casua	lties*		16
Ta	rget	Area .	Adjace	ent Area	Ta	rget A	rea	Adjace	nt Area	17
		Civ		Civ	M1	1 .	Civ	M11	Civ	18
(0 .:	0	0			o ·	0	0	37	19
#C	asual	ties es	timate	d under	dayl	ight a	lert	condition	ons.	20
14. RE	COMM	ENDED W	EAPONS	AND SO	RTIES	:				21
weapo	In o	order torties	o achi requir	eve the ed over	desi:	red dan	nage o	riterio	n,	22 23
WEAPON:		0# Nakeye	or	250# BOMB	or ·	500# BOMB	or	750# BOMB		
	21	15/18		950/79		410/46	5	210/35	;	24
b. "over	Wear targ	ons/so get" re	rties quirem	operatio	onally own al	requi	red t	o achie	ve	25 26
	26	62/22 ·		1159/96		500/56	5	256/43		27
15. PR	OBABI	LITY O	F ACHI	EVING D	AMAGE	CRITE	RTON.	85 4		28

TOP ECRET

A-B-BB-3

Tab BB to Annex B to Appendix A

(Revised by 9th Note to Holders)

TAB BENDYN ARREST BOTH APPENDING



A-H-HF-1

10 to 10 to

104

1. TARGET NUMBER: 18.58	1
2. <u>BE NUMBER</u> : 616-0665	2
3. IDENTIFICATION: Lang Dang Railroad Bridge over Song Thuong	3
4. DATE OF INFORMATION: 18 Sept 68	4
DATE OF TISD: 12 Nov 68	5
DATE OF PHOTOGRAPHY: 29 Aug 67	6
DATE OF INTELLIGENCE REVIEW: 26 Sept 68	7
5. LOCATION: 21-39-25N 106-35-22E, located on the Ha Not-Dong	
Dang ratt line, to NM S of Dong Dang, and 18 NM S of the Communicat China	я 9
border.	10
A DESCRIPTION POLICY	
6. DESCRIPTION: Bridge, oriented ENE/WSW, is 126' long and 20'	11
wide. It has a single steel through-truss span and concrete abutments. It has a single rail bypass bridge (616-4375).	12
	13
7. SIGNIFICANCE: The central and shortest of the 3 relatively long	
ortuges on the dual-gauge. Dong Dang-Ken nortion of the Us Not Done Dane	14 15
rati line. The only alternate rail connection between He Not and Communication	16
China is from Kun-ming, in China, through Lao Cai.	17
8 TARCET ENVIRONMENT	
8. TARGET ENVIRONMENT: Target, about 180° above sea level, is about 0. 4 NM E of Lang Ro, in a narrow, NE/SW trending valley. Valley	18
floor, about 0.7 NM wide, is mostly flat, cultivated in wetland rice. SE	19
part of valley floor contains wooded hillocks: NW past contains a good	20
ratificate, and stream. Valley paralleled on NW by steensided wooded	21 22
Rafet nills. Filli Crosts 1,000' to 1,500' above sea level, about 1.5 NM	23
or valley floor. NW side of ridge dissected by small, parallel, NW	24
flowing streams. Hills extend SE from the ridge.	25
9. DEFENSE ENVIRONMENT:	•
:	26
a. The target is within the SAM envelope	27
h AAA aadadan baa baaba ah	
b. AAA activity has been identified within 3 NM of the target.	28
c. HMG and small arms fire is anticipated.	29
10 DAMACE ORIEGEN	
10. DAMAGE OBJECTIVE: Interdiction of traffic between Communist	30
China and North Victnam. Damage criterion is collapse of the span.	31
11. EFFECT ON NVN: Destruction of this bridge would halt rail	32
traffic between Communist China and North Victnam.	33
12 DECUBERANTIMU	• •
12. RECUPERABILITY:	34
a. Line capacity: 9 Trains each way/6100 ST S per day.	35
b. Emergency facility: Available circuitous highway routing	36
would provide full throughput capacity after 3 days.	37
	٠.

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Rovined by 15th Note: to Holdern)
A-H-BF-2

TAB BE Anno B

ે ગ્ર



13.							
	Insignifican	t Landing:	And the state of t	ing Lagrangian in the control of the			
10 b. 1	Popu	lation			Cas	ualties*	-
T	arget Area	Adjacer	t Area	Target	Area	Adjace	nt Area
	MII CIA	MII	Civ	Mil	Clv	Mil	Civ
Addition to Very 19	0 0	. 0	:50″ -	0	0	0	1
*Ca	sualties esti	mated un	der dayl	light alert c	onditio	ns.	
	RECOMME!						
sorties re	a. In order quired over	to achieve target:	ve the de	sired dama	ge crit	erion wes	pons/
sorties re Weapon	250# SNAKEYE 343/29	to achieve target: 5004 or SNAF	ve the de	sired dama	ge crit	750#	pons/
Sorties re Weapon (126' x 20	a. In order quired over 250# SNAKEYE	to achieve target: 5000 or SNAF	ve the de (EYE o: 7/16	500# F BOMB o	ge crit	750# BOMB 310/52	
Sorties re Weapon (126' x 20	250# SNAKEYE 1) 343/29 b. Weapons quirement s	to achieve target: 5000 or SNAF	ve the de (EYE or 7/16 operation	500# F BOMB o	ge crit	750# BOMB 310/52	
weapon (126' x 20' target" re	250# SNAKEYE 1) 343/29 b. Weapons quirement s	to achieve target: 500% or SNAH 141 /Sorties hown abo	ve the de KEYE or 7/16 operation ver	500# r BOMB of 633/70 nally requir	ge crit	750# BOMB 310/52 achieve "6	over .

SECKET

#18.58

(Revised by 15th Note to Holders)
A-H-HP-3

TAB BF to Annex I to Appendix A



tab bg to annex b to appendix $\bar{\mathbf{a}}$

TARGET NO. 18.59





1. TARGET NUMBER: 18.59	1
2. BE NUMBER: 616-0619	2
3. IDENTIFICATION: Long Khap Hwy Br ov Song Chay	3
4. DATE OF INFORMATION: 13 September 1966 DATE OF TIS: 19 September 1966 DATE OF PHOTOGRAPHY: 15 March 1964 DATE OF INTELLIGENCE REVIEW: 7 April 1965	4 5 6
5. LOCATION: 22-22-55N 104-20-18E, UTM VK 317750. Located on North Vietnam Route 4 approximately 25 air miles southeast of Lao Cai.	7 8 9
6. DESCRIPTION: The target is a 4-span high level reinforced concrete and steel bridge 45 feet above water level with solid concrete piers; overall dimensions 320 by 10 feet. The two center spans, one of which is a probable suspension span, are approximately 100 feet long and the shore spans are approximately 60 feet in length. The road is side hill cut for great distances on both sides of the bridge. There is no immediate bypass.	10 11 12 13 14 15
7. SIGNIFICANCE: This bridge provides vehicular passage on one of six through routes from South China to the Ha Noi area. Route 4 through this point is part of a road alternate to the major rail line following the Red River from the border crossing at Lao Cai to Ha Noi.	16 17 18 19
8. TARGET ENVIRONMENT: The target is situated in the vailey of the Song Chay, oriented generally NW/SE, which parallels the Red River valley located to the west. The valley is flat to hilly and generally lightly cultivated and populated. The river banks are high and steep in the vicinity of the target.	20 21 22 23 24
9. DEFENSE ENVIRONMENT:	25
a. No SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, nor have any been identified within a 30 NM radius.	26 27 28
b. No AAA defense activity has been identified in the vicinity of this target. The nearest activity is in the Tran An Phu area, 13 NM south.	29 30 31
c. Light small arms/machine gun fire from local militia or security forces could be encountered in this area.	32 33
10. DAMAGE OBJECTIVE: Interdiction of traffic between South China and Ha Nois. Damage criterion is destruction of at least one span.	34 35



A-B-BG-2

(Revised by 11th Note to Holders)

Tab BG to Annex B to Appendix A



				• • • • • • • • • • • • • • • • • • • •					
aralla Markara	EFFEC	T ON NVN	In the	event of	interdi	ction of	both the	Leo Cai -	i
119 1401	rall line	s and Route	1 lead	ng to lun	ction w	ith Rout	e 157. m	40 01 000 01	2
THE FAC	niajor i	exce for su	PPLY fro	m South	China v	vill he d	enied. I	would lime	3
	Amadian a	Signway Ac	cess to	live throu	igh rou	tes and	would for	ce tempora	ry 4
iji oj.	FERTION C	f supply m	Ovemen	t to the n	ortheas	t sector	of the c	ountry.	5
12.	RECUP	ERABILIT	Y: The	Song Cha	y is no	t fordab	le at this	point and th	e 6
mmed	TWIR LOCK	overy meas	ure wo	ild proba	bly be (the insta	liation of	la farry or	7
021001	n bridge	which weu	d requi	re four d	Lys to	week t	o prepar	approache:	8
na as:	samble e	quipment.	Install	ation of a	balley	type ter	mporary	span which	9
po con	a prougi	t in from	ine Lao	Cai railh	ead co	ald be a	ccomplis	hed within	10
hould	ne perio	d of time. four to six	Kecons	truction	of the b	ridge to	prestrik	e capacity	11
110010	reduire	icur to six	weeks.						12
13.	COLLA	TERAL DA	MAGE:						13
	A. Insi	gnificant							14
	b.	Popu	ation			Car	ualties*		15
	Tar	get Area	Adjace	nt Area	Tar	get Area	Adjac	ent Area	16
	MII	Civ	Mil -	Civ	Mil	Civ	Mil	Civ	17
	0	. 0	0 .	50	0	0	0	1	18
	+Ca.	sualties es	timated	under da	ylight a	alort con	nditions		19
14.	RECOM	MENDED '	WEAPO	NS AND S	ORTIE	: <u>s:</u>			20
	a. In o	rder to ach	ieve the	desired	damag	e criter	ion. wea	pons/sorties	21
req	uired ov	er target:						, , , , , , , , , , , , , , , , , , , ,	22
-		250#	· •	250#		500#	79	50#	
VEAP	on	SNAKEYE	. 01	BOMB	c r	вомв	or B	ОМ В	
320×10	0)	420/35		700/59		320/36	18	30/30	23
req	b. Wea Juiremen	pons/sorti t shown ab	ove:	uticnally	requir	ed to ac	hieve "ov	er target"	24 25
		512/43		854/72		390/44	2 2	20/37	26
15.	PROBA	BILITY OF	· ACHIE	Wine de	610 E D	DAMAG	. CO	CRION: 85%	27

TOP S CRET

-- A-B-BG-3

Tab BG to Annex B to Appendix A

(Revised by 11th Note to Holders)



TAB BH TO ANNEX B TO APPENDIX A TARGET NO. 18.6





TARGET INFORMATION AND STRIKE DATA

TARGET INFORMA	ATION AND STRIKE DATA	
1. TARGET NUMBER: 18.6	••	
		1
2. <u>BE NUMBER</u> : 617-0023		2
The state of the s	Railroad and Highway Bridge	3
4. DATE OF INFORMATION: 1	27 February 1965	5 6
National Route 1.		7 8 9
concrete piers and concrete a embanked earth. The deck is traffic.	north/south. 380 feet long by through-truss construction, 2 butments. The approaches are covered by concrete for vehicular	10 11 12 13 14
between the junction of Route and the junction of Routes 8		15 16 17 18
The stream is navigable through	e bridge is located 13 miles low-lying coastal flatlands. ghout the year and has gently diately surrounding the site is	19 20 21 22 23
9. <u>DEFENSE ENVIRONMENT</u> :		24
NOGREGA WAY PICE IS ADDLOX.	ted in the target vicinity. imately 2 NM SE and reported defenses extend over an area t.	25 26 27 28
b. There are 3 confirmed fire control radars in the	d early warning and 3 confirmed Vinh area.	29 30
10. DAMAGE OBJECTIVE: Integrated on is destruction of a	rdiction of traffic. Damage t least one span.	31 32
rail trailing short or the tem	s area, and hamper supply ship- Routes 8 and 15/12. Rerouting our of approximately 60 miles	334 345 367 38
12. RECUPERABILITY:	•	39
a. Line capacity:	TD 9 (EWPD) 1500 ST/Day	40 41
b. Emergency facility:	Inland water craft (alternate ferry crossing 500 feet down-	42

A.B.BH 2

Tab BH to Annex B to Appendix A





C. Recuperability:	
cribbing and niling	1
to allow 750 STOOM	3
atruction to pre-attack capa- city would require 7 months.	4 5
13. COLLATERAL DAMAGE: Insignificant.	ð
RECOMMENDED WEAPONS AND CORRESPONDED	7
A JTM Andam A	8
Weapons/sorties required over target:	9
OFA	10
The state of the s	
148/12 575/48 255/28 270/45	11
b. Weapons/sorties operationally required to achieve over target" requirements shown above:	
And the state of t	12 13
181/15 705/59 312/34 330/55	14
15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 85%	15

A-B-BH-3 Tab BH to
Annex B to
(Revised by 7th Note to Holders) ppendix A



TOP SICRET
(Re Ised 31 August 1965)

A-B-61-1

Tab B: to Acces b to Appendix A

And the second of the second o	
TARGET INCHMATION AND STRIKE DATA	
The state of the s	
1. TARGET HUMBER: 18161	1
	2
3. IDENTIFICATION Isia that they be over Bong that	3
4. DATTE OF EMPHONOMETERS, 21 200	4
1966	50
The state of the s	7
Located to Novel Victory Roses 2 1-388, 1911 W. 570457.	ø
of the Some Ma and Ging Con and Just East of the confluence	9 10
	îĭ
o. DESCRIPTION: Oriented HE/2W with the world dimensions of 200 x 10 1901, the bridge is a five span structure; south long report doubte flows by United	12
long report could be flowe both the truss type; and stream turn- out span concrete deak type with probable concrete 5 pier support system; regulators of type with probable concrete 5 pier	13 14
support gratemi complete and probable concrete 5 pier	.15
wide partitue months. An election span has a 25 foot	17 13
condition is located approximately 500 feet to the east of	19
7. MIGH. PHOLOGER: The Larget In Joented on Boute 3 which	20
Should this torrette initialistad America to Province, Chin.	24 24
and Hanol could be continued over the longer alternate route via Route 4 to lang Son and Route 1A to Hanol.	25
8. TARGET ETVIROUMENTS The turner to	50
	સ્યુ સ્યુ
wide that extends north reversi miles and a west a west	29 30
ing to 400 to 1:00 yards wide the river ironden-	31
steep hills with 950 feet lount with of he song Cau,	32 33
	34 35
covered; rice-lields cover hinter the min and forest	カーいきへい
tow water Beason (October - April).	38
9. DEFENSE ENVIRONMENT:	39
a. No SAM sites have been identified within SA-2 missile	40
range (17.5 NM) of this target; however, 3 sites are 18-30 NM distant.	41 42
b. No AAA defenses have been identified in this area.	43
C. No military units are known to be in this area, have	44
ever, light AW/small arms fire would be anticipated from local militia elements.	45 46
10: DAMAGE OBJECTIVE: Interdiction of traffic between Thai Nguyen and Cao Bang. Damage criterion is collapse of at least	47 48
one spatt.	49
11. EFFECT ON NVN: Interdiction of this bridge would inter- rupt traffic on Route 3 between Thai Nguyen and Cao Bang.	50 51
man January annua signyon with your mails.	71

A-B-BI-2

(Revised by 8th Note to Holders)

Tab BI to Amnex B to Appendix A

TUP P CRET

could be upon the a ford at ten days, capacity accomplist to pre-at	accomplishe availabilit the site of Replaceme temporary t shed in one crike capaci	f: The most life reactivate the reactivate the distriction one way of ferrying could be accompent of a destroimber trestle to two weeks.	e abondoneek; the equipment of the equip	oned fermed the control of the contr	ry site which depending natruction of one week to limited could be	123456789
13. <u>cor</u>	LLATERAL DAN	MAGE: Insignif	icant.			10
14. REC	COMMENDED WE	APONS AND SORT	TES:	•		11
weapon	In order to	achieve the deepuired over t	esired arget:	damage d	criterion,	12 13
WEAPON:	250# Snakeye	or <u>BULLPUP</u>	or	500# BOMB	750# Dr BOMB	
ر در	90/8	50/25		249/27	190/32	14
over"	Weapons/sor target" req	ties operation uirements show	ally re n above	quired t	to achieve	15 16
	110/9	61/31		293/33	232/39	17
15. PRO	BABILITY OF	ACHIEVING DES	IRED D	MAGE CRI	ITERION: 85%	18

TOP LCRET

A-B-BT-3

Tab BB to Annex B to Appendix A

(Revised by 8th Note to Holders)



TAB BJ TO ANNEX B TO APPENDIX A

TARGET_NO. 18.62



TOP CRET (P) sed by th N/H)

A-B-BJ-1

Tab BJ to Annex B

TARGET INFORMATION AND STRIKE DATA

TARGET NUMBER: 18.62	1
2. <u>RE NUMBER</u> : 61G-0823	2
3. IDENTIFICATION: Lang Luong Hwy Br ov Song Mo Ga	3
4. DATE OF INFORMATION: 14 June 1966 DATE OF TIS: 20 June 1966 DATE OF PHOTOGRAPHY: 17 March 1965 DATE OF INTELLIGENCE REVIEW: 5 April 1965	なんだって
5. LOCATION: 21-44-50N 106-04-16E UTM 480 XK 108050. Located on North Vietnam Route 1B approximately 17 NM northeast of Thai Nguyen.	8 ? 10
ntructure with over-all dimensions of 125' x 10'. The two wentern spans are of probable continuous steel half-thru truns construction having lengths of 70 ft. and 30 ft. from west to east respectively. The eastern span 1s a 30 ft probable concrete deck type. The piers are of light concrete design. A prepared stone ford has been installed just north	11 12 13 14 15 16 17
nate to Route 1, and controls traffic between Dong Dang and	21 20 20
8. TARGET ENVIRONMENT: The target lies in the valley of the Song Mo Ga which is relatively broad and flat at the target site. The flood plain at the target site is oriented NE/SW and is approximately 1300 yards wide. The valley is confined to the north by a regular cliff rising abruptly 1300 feet above the valley floor to an elevation of approximately 1800 feet. The southern valley wall is irregular. Peak elevations in the area rise to 2700 feet. Vegetative cover in the valley consists of cultivation and light tree cover. The confining ridges and hills are heavily forested. Population is confined to scattered farm houses and villages.	22 23 25 26 27 28 29 20 31 23 33 33 33 33 33 33 33 33 33 33 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36
. DEFENSE ENVIRONMENT:	31
u. Two SAM sites have been identified within SA-2 missile range (17.5 NM) and 12 sites are 18-30 NM distant.	35 36
b. No AAA defenses are known to be in the area of this target.	37 38
c. It is anticipated that some AW-small arms fire from local militia would be encountered in this area.	39 40
10. DAMAGE OBJECTIVE: Destruction of at least one span.	41
11. EFFECT ON NVN: Interdiction of the target would eliminate the use of Route 1B as an alternate to Route 1 and as a through route from support bases in Kwangsi Province, China to Hanoi.	42 43 44 45
12. RECUPERABILITY: Although stream characteristics at the site are not available, it is estimated that it is at least seasonally fordable. In such a case, the most likely immediate bypass measure would be the installation of a ford which could require three to four days. Should the bridge be destroyed during the high water season, a bypass ferry or	46 47 48 49 51
A-B-BJ-2 The BJ to Annex B to (Revised by 8th Note to Holder: Appending A	

pontoon bridge could be atruction of the bridge from four to six weeks.	to pre-strik	thin a week e capacity t	r kecon- would require	1 2 3
13. COLLATERAL DAMAGE	None -			4
14 RECOMMENDED WEAPO	ONS AND SORTI	ES:		5
weapons/sorties requi	leve the des	ired damage	criterion,	6 7
WEAPON SNAKEYE OF	250# BOMB or	500# BOMB or	750# <u>BOMB</u>	
285/24	1250/105	600/67	355/60	ટ
b. Weapons/sortier "over target" require	operational ments shown	ly required above:	to achieve	3
348/29	1524/128	732/82	433/73	11
15. PROBABILITY OF AC	HITEVING DAMA	GE CRITTERIO	i Asat	10

TOP ECRET

--- A-B-BJ-3

Tab BJ to Annex B to Appendix A

(Revised by 8th Note to Holders)



TAB BK TO AIMEX B TO APPENDIX A

TARGET NO. 15.63



TOP SECRET

A-- "- : W-1

Tab PK to Anno to to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 18.63	1
2. BE NUMBER: 616-0750	2
3. IDENTIFICATION: Vinh Tuy Highway Bridge over Song Con	3
4. DATE OF INFORMATION: May 1963 DATE OF TIS: 13 April 1965	4 5
5. LOCATION: 22-16-08N/104-53-40E, UTM 48Q VK 893624. Location on North Vietnam National Route 2 approximately 12 NM SE of Lang Cai.	6 7 8
6. DESCRIPTION: Bridge oriented NW/SE, has been repaired since 1961 with a 4-span superstructure now apparently consisting of a combination of 2 concrete deck-type end spans and 2 center spans of steel half through truss construction. Overall dimensions approximately 380 ft x 11 ft. Ferry site on North side of bridge has provided vehicular bypass during a long period of dis-repair of the original bridge. Banks of the 300 ft wide Song Con moderately sloping but near-vertical bluffs found in places.	9 10 11 12 13 14 15 16 17
7. SIGNIFICANCE: This bridge controls traffic on National Route 2 between the population centers of Ha Giang and Tuyen Quang. This route is the principal highway between southern Yunnan Province, China and north central North Vietnam. The most immediate alternate line of communication would be the Lao Kay - Hanoi railroad.	18 19 20 21 22 23
8. TARGET ENVIRONMENT: Target is located on Song Con at confluence with Riviere Claire. Terrain in area consists of forested, rolling to steep, highly dissected hills and rolling plains. Wetfield rice cultivation in stream valleys scattered throughout area. Conditions for off-road movement, poor to fair. Bypass via ferry at Vinh Tuy located on north side of target.	24 25 26 27 28 29 30
9. DEFENSE ENVIRONMENT: There are no known AAA defenses located in the target vicinity. Generally, the area lies within the EW capability of Thai Nguyen, Trai Ngau and Son La radar installations.	31 32 33 34
10. DAMAGE OBJECTIVE: Destruction of at least one span and damage to adjacent ferry site.	35 36
11. EFFECT ON DRY: Interdiction of this target would hinder highway transport between South China and north central North Vietnam.	37 38 39
12. RECUPERABILITY: Lack of previous measures to repair bridge to full capacity and existing alternate means of crossing diminishes significance of the target itself. If effectively interdicted at one of the two central spans, the bridge should not be repairable in less than three weeks. Temporary field bridging may supplement ferry operations within one week.	444444

TOP P CRET

A-B-BK-2

Tab BK to Annex B to Appendix A

Weapons/sorties required over target:

Weapons/sorties required over target:

Weapons:

BNAKEYE or BOMB or BOMB or BOMB

BNAKEYE or BOMB or BOMB

D. Weapons/sorties operationally required to achieve cover target:

Toward requirements shown above:

195/17 854/72 378/43 213/37 15. PROBABILITY OF ACHIEVING DAMAGE CRITERION:

TOP CRET

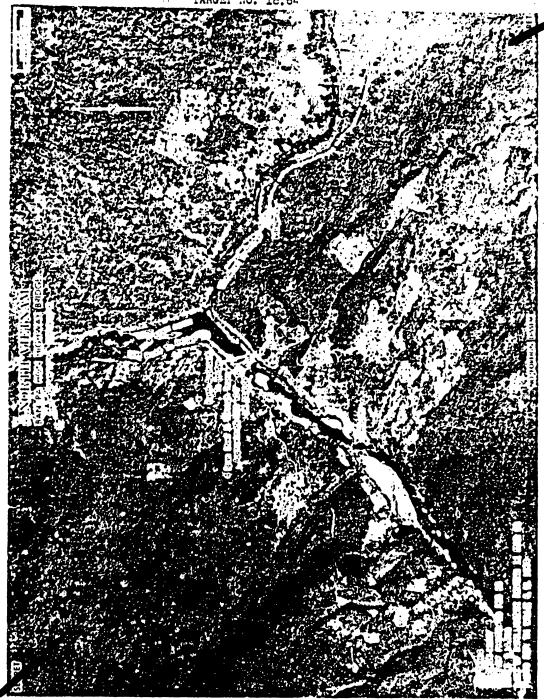
A-B-BK-3

12/24

Tab BK to Annex B to Appendix A

TAB BL TO ARREST B TO APPENDIX A

TARGET NO. 18.64



TOP SCRET

A - 13 - Fit - 2

Tab PL to Amner. to Apren dir A





TARGET INFORMATION AND STRIKE DATA

1. TARCET NUMBER: 18.64	. 1
2. BE NUMBER: 616-0227	2
The control of the co	
3. IDENTIFICATION: Bin Pa Huone Highway Bridge over Nam Meuk	3
4. DATE OF INFORMATION: February 1965	5
The state of the s	6
5. LOCATION: 21-48-10N/103-18-28E, UTM 48Q UK 249117. Located on North Vietnam Local Route 148 approximately 25 NM	78
south of Lai Chau.	ğ
5. DESCRIPTION: Bridge, oriented NW/SE, is a half through	10
reinforced simple steel truss structure with an estimated 4 spans; overall dimensions estimated 220 ft x 10 ft;	11 12
vertical clearance unlimited; height of deck at least 20 ft above vater; concrete piers and abutments. There is a pre-	13
pared ford 60 yards downstream which is known to be suitable	15 16
for military vehicles. The swiftly flowing Nam Meuk is about 150 feet wide at the target site, and has steep banks that in	17 18
many places coincide with valley walls that reach heights of more than 2,000 feet.	18 19
7. SIGNIFICANCE: This target lies on the only road in	
North Vietnam linking Routes 4 and 6. Route 148 extends	20 21
north of Lai Chau into Yunnan Province in China, thus pro- viding the principal access route west of the Red River	22
between China and Dien Bien Phu area in North Vietnam.	23 24
8. TARGET ENVIRONMENT: Target crosses the Nam Meuk	25 26
(river) about 1.2 NM NW of Ban Pa Huone. It lies in rugged mountains that reach a height of 4,000 feet. Vegetation	26 27
throughout the area consists of scrub and forest. The only	27 28
feasible avenue for movement is a road which parallels the streams that leads to the target. Approaches to the bridge	29 30 31
located on side hill cut in the steep valley walls.	31
9. DEPENSE ENVIRONMENT: There are no known AAA defenses	32 33 34
located in the target vicinity. Generally, this area lies within the EW capability of Dien Bien Phu and Son La radar	33 34
installations.	35
10. DAMAGE OBJECTIVE: Destruction of at least one span, and damage to the approach roads.	36 37
11. EFFECT ON DRV: Should this target be interdicted, traffic from Route 4 into north central Vietnam would be	38 39
forced to detour a long distance through northern Laos, causing considerable delay.	39 40 41
12. RECUPERABILITY: Restoration requirements for this bridge in case of interdiction are diminished by existence	42 43
of an active prepared ford adjacent to the bridge. Repair	44
of bridge may be considered unnecessary until height of next wet season.	45



A-B-BL-2

Tab BL to Annex B to Appendix A

TIME

ECRET



A-B-BM-1

To Appendix A

A CONTROL OF THE PROPERTY OF T	
TRANSPORTER PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPER	
1. TARGET NUMBER: 18.65 2. BE NUMBER: 616-0076 3.4 IDENTIFICATION: On Page By Co. Song Theory	
1. TARGET NIDERRO 18 6c	
TOO TO	1
2. BE NUMBER: 1 616-0076	2
The Transfer of Control of Contro	2
- 2 or Bong Indone	3
DATE OF INFORMATION: 7 November 1967 DATE OF TIS: 20 April 1968 DATE OF PHOTOGRAPHY: 18 October 1967 DATE OF INTELLIGENCE REVIEW: 28 March 1968	h
DATE OF TIS: 26 April 1968	4 56
DATE OF PHOTOGRAPHY: 18 October 1967	6
	7
5. Location: 21-39-18n 106-35-05E. Located on North Vietnam	8
	9 10
of Than Moi at village of Lang Ro	10
The Cold DESCRIPTION (Bridge oriented NW/SE Test reported as	11
	12
a 15-foot roadway. Target has at least 6 trestle bents having span lengths under 35 feet. The Song Thuong is approximately 50	13 14
Jaius wild noor the threat: the banks are low to moderately	15
SIGDING. There are two systemic homesons we as also because	15 16
including one 75 foot ford and a smaller bridge/causeway.	17
1. Plunificance: Target is on a fair weather road which	18
could serve as a pypass to Route 1A. in the event of interdiction	19
of a nearby bridge on Route 1A, BE Number 616-0665. Route 1A links Kwangsi Province in South China, with Ha Noi.	20
	21
8. TARGET ENVIRONMENT: The target is located near junction	22
with Highway 1, northeast of Thanh Moi, in the flat Song Thuong (river) valley, which ranges from 400 to 1,000 yards wide in the	23 24
varet area. The valley is flanked on both sides by forested	24
Pubbou, Karst hills that rise up to 1.200 feet above adjacent	25 26
valley floors. Most of the valley is under wetfield rice cultivation. Off-road vehicular movement is restricted by steep slopes, sink-	27 28
holes and miry soils.	28
	- 5
9. DEFENSE ENVIRONMENT:	30
a. The target is not within the SAM envelope.	21
	31
the target.	32 33
And the second s	33
c. HMG and SA fire is not anticipated.	34
10 DAMAGE OF TECHTIFE Total Andrew of him America had a	
10. DAMAGE OBJECTIVE: Interdiction of hwy traffic between South China and Ha Noi. Damage criterion is destruction of at least	35 36
one span.	37 37
The state of the s	
11. EFFECT ON NVN: Interdiction of this target would hinder use of local Route 187 as an alternate to Route 1A and	38
delay highway traffic between South China and Ha Noi.	39 40
the confidence of the confiden	
12. RECUPERABILITY: Stream characteristics at the bridge site appear favorable for easy crossing and the simple timber	41
construction of a damaged single span should be restorable or	42
replaceable within 3 days with locally available materials.	43 44

ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-B-BM-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tab BM to Annex B to Appendix A

STATE OF THE STATE	
13. COLLATERAL DAMAGE:	. 1
a. Insignificant	2
	-
Casualties	3
Target Area Adjacent Area Target Area Adjacent Ar	ea 4
MILES CIVE	1 v 5
a. Insignificant Description Casualties* Target Area TAdjacent Area Target Area Adjacent Area Milital Civic Mil mas Civ Mil Civ M	3 6
Casualties estimated under daylight alert conditions	7
14. RECOMMENDED WEAPONS AND SORTIES:	8
The state of the s	
orties required over target:	/ 9 10
750#	11
WEAPON SNAKEYE BOMB	12
WEAPON (200 x 15) Weapons/sorties operationally required to achieve	13
	14
""over target" requirement shown above:	15
52/6 136-21	16
25. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 05%	17
The state of the s	
	1
	E to
Appen	dix A
The state of the s	

TARGET NO. 18.66



SEC ET (If vised by 14th N/H)

A-B-BN-11 -

Tab BN To Annex B Lo Appendix A

1. TARGET NUMBER: 18.66 2. BE NUMBER: 616-0816 3. IDENTIFICATION: Me Xa Rwy Br Ov Song Ky	1
BE NUMBER 010-0810	2
DATE OF INFORMATION: 28 November 1965 DATE OF PHOTOGRAPHY: 21 July 1965 DATE OF INTELLIGENCE REVIEW: 28 March 1968	3
4. DATE OF INFORMATION: 28 November 1965	4
DATE OF TIS: 26 April 1968	5
DATE OF INTELLIGENCE REVIEW: 28 March 1968	7
S TOCATTON - 21-01-228 106-22-168 Tocated on Month Wietness	ρ
Route 18 approximately 17 NM northwest of Hai Phong.	8
Route 18 approximately 17 NM northwest of Hai Phong. DESCRIPTION: Oriented E/W, the bridge is a 5-span steel	10
A nair through truss structure with a timber deck; over-all	11
dimensions 225 x 10 feet. Both approaches consist of embank- ments extending into the river channel, the western embankment	12
Ellaing approximately 100 feet long and the eastern embankment	ī
of greater length.	15
7.2 SIGNIFICANCE: This target is located on a leg of the	16
easternmost through route from South China to Ha Noi. It provides truckable passage on Route 18 which serves also as an alternate	17 18 19
to Route 5 linking the Hai Phong Port Complex and Ha Noi. This	19
route has been utilized as an access to and from the coal mining regions in and around Hon Gai.	20
A Maria Mari	
8. TARGET ENVIRONMENT: The target crosses the Song Ky, a tributary of the Song Da Bach, and lies on the low-lying, flat	2:
::::::::::::::::::::::::::::::::::::::	3. 3. 3. 3. 3.
The coastal plain dissected by an extensive system of canals and rivers and their tributaries. Route 18 is built on an embank- ment for several miles on either side of the target denying off	5,
road movement A large portion of the surrounding terrain is	2
intermittently submerged; that part, which is not, is cultivated.	5
Population density is light and confined to villages scattered throughout the plain.	3
	3
9. DEPENSE ENVIRONMENT:	
a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM	3
b. AAA activity has been identified within 3 NM	3
of the target, warman and a second a second and a second and a second and a second and a second	3
of the target.	3
And the second of the second o	3
Damage criterion is collapse of at least one span.	3
Damage criterion is collapse of at least one span. Damage criterion is collapse of at least one span. 11. EFFECT ON NVN: Interdiction of this target would severely restrict use of alternate communications between Ha Noi and	3
The restrict use of alternate communications between Ha Noi and	3
Hai Phong. It in turn would cut off direct traffic to the coal and mineral resources in the northeast coastal area free of	4 1
	Ī
South: China coastal route and Mon Cai also would be drastically	2
reduced for possibly over one week.	4

BECOET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(REVISED FY 14TH NOTE TO HOLDERS)

Tab TN to Annax B to A xibnagoA



TAB BO TO ANNEX B TO APPENDIX A



TOP S CRET
(Rev led by 11th N/H)

A-B-BO-1

Target information and strike data ---2. BE NUMBER: 615-0286 2 3. IDENTIFICATION: Chieng Chang Hwy Br ov Song Luc Nam 4. DATE OF INFORMATION: 13 September 1966 DATE OF TIS: 21 September 1966 PARTE OF PHOTOGRAPHY: 30 December 1964 DATE OF INTELLIGENCE REVIEW: 5 April 1965 THE WAR STREET STREET STREET STREET STREET 5. LOCATION: 21-32-00N 107-04-48E, UTM YJ 154822. Located on 8 North Vietnam Route 175 (13B) approximately 2 NM southwest of the junction 9 with Route 4 at Dinh Lap. 10 AND THE PARTY OF T 6. DESCRIPTION: Oriented NE/SW with overall dimensions of 144 by 8 11 feet, the bridge is a single lane steel girder bridge with concrete deck 12 approximately 55 feet above water level. Bypass is difficult. 13 A THE RESIDENCE OF THE PARTY OF 7. SIGNIFICANCE: The target controls traffic on Route 175 (13B) 14 between Dinh Lap and Bac Giang, a potential alternate to Route 1A, the 15 primary LOC between Kwangsi Province, China and Ha Noi. 8. TARGET ENVIRONMENT: The target is situated in the narrow Song 17 Luc Nam vailey. The surrounding terrain consists of irregular limestone 18 hills and ridges separated by numerous small stream valleys. Peak 19 elevations rise to 1500 feet in the vicinity of the target. The stream valley 20 in the target area is alternately wooded and cultivated; the higher hills and 21 ridges are wooded and cultivated. Population density is sparse and confined 22 to widely scattered farm houses and villages. 23 A Patriote Management of the Control 9. DEFENSE ENVIRONMENT 24 English Landson State State Control of the Control a. No SAM sites have been identified within SA-2 missile range 25 (17.5 NM) of this target; however, 2 missile sites are 18-30 NM distant. STATE OF THE PARTY OF b. No AAA defense activity has been identified in the area of this 27 target. C. Very light small arms/machine gun fire from local militia could 28 be encountered in this area. 10. DAMAGE OBJECTIVE: Interdiction of traffic on Route 175. Damage 30 criterion is the destruction of the bridge. 32 11. EFFECT ON NVN: Interdiction of this target would interrupt traffic 33 between Dinh Lap and Bac Giang and decrease the utility of Route 175 (13B) 34 as an alternate to Route IA. 35 A PROPERTY OF THE PARTY OF THE

A-B-B0-2

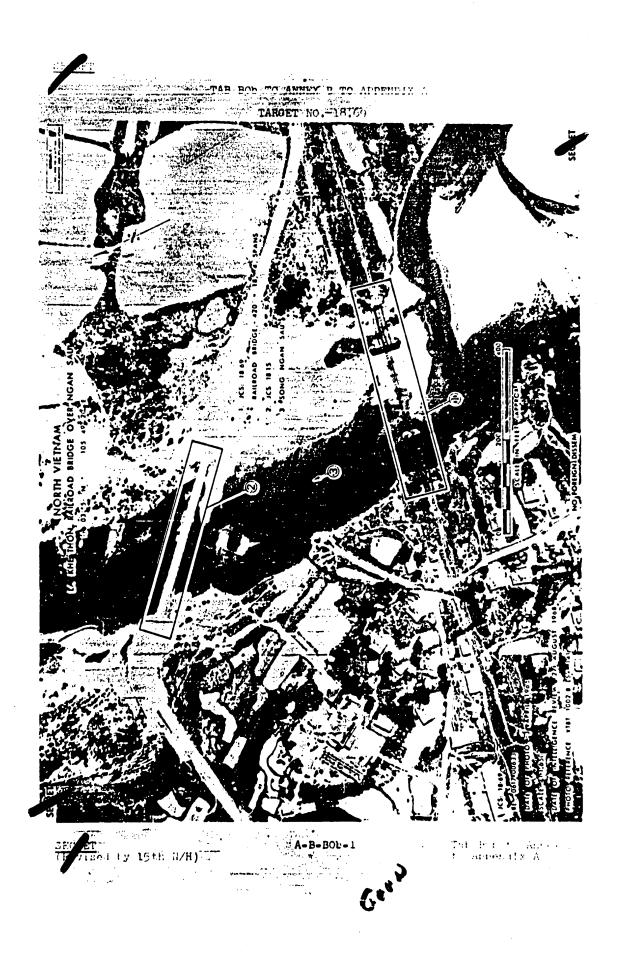
(Revised by 11th Note to Holders)

Tab BO to Annex B to

Appendix A

THE REPORT OF THE PERSON OF TH

	TOP ZCR	<u>e.r.</u>					
1	833	7.44	100			•	
2		Carlo de la Carlo de	The second		ga.		
	RE	CUPERABILIT	Y: "Stream chi	racteristics	are not avail	lable. Howeve	r,1
- 44	git is likely	that the stream	n is seasonally	f. fordable an	d probably f	ordable the	2
	Tyear round	A. ford could	i be installed v	vithin one wee	k to ten day	•, A	3
	Stemporary	rtrestle replace	ement bridge o	f limited caps	city could b	e installed :	4
300	utilizing l	ccal materials v	within one to to	un weeks Re	inlacement v	uith a heidae	5
E 100	With full o	re-strike canac	ity would ear.	les les faire	to six week	5. .	6
		THE MICHIGAN	The state of the s	and the second	Marie Control		
	13.4 <u>CC</u>	LLATERAL D	AMAGE:	100	Control of The State of The Sta		7
		Anna de la companya della companya d	CHAIN THE		Andrew Control		
	a file of the	None with Sal	A Day Supplied	A STATE OF THE PARTY OF THE PAR			8
			Park a land and a second	the state of the same			
	ba	Popu	lation		Casualties	• "	. 9
	All Cartes				313		
		Target Area	Adjacent Are	a Target	Area Adia	cent Area	10
***	Marie Land	THE PARTY OF THE P	Applied Manager 1 40 .		1475		
	L V	MIL CIV	MII CIV	MIL	Clu Mil	Civ	11
						• • • • • • • • • • • • • • • • • • • •	••
	range we this	Un O Berro	0 2		Λ Λ	•	12
Liveria		None Popular P				• •	. 6
20	No.	e Co en a le la comp	timated under	diviliabe alaa	•		12
- 12 kg - 12		Casualties e	is or.	-AirRut STOL	Conditions		13
	11 0	COMMENDED	" WEADONG AN	7"3. 'D 800 TIPE.		_	1.4
34.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COMMENDED	WEAPONS AN	D SURTIES:	• • •		14
The second secon	in a minute of the second	in order to ac		and dominate or or			
1		an order to ac	ureve the deati	red damage CI	iterion, we	apons/sorties	15
	of Fedure	ed over the tar	ges:				16
		250#	10	44.5			
1						750#	
المرد المرد	WEAPON	SNAKEY	E OF BOM	B or BO	MB or 1	BOMB	
		145/13	en enteren	: 1			
1	(144x8)		600/	395	/44	330/55	17
70							
	b.	Weapons/sort	les operations			ver target"	18
	b.	Weapons/sort	ies operationa	lly required t	o achieve "o		18 19
4	b.	Weapons/sort	ies operationa	lly required t	o achieve "o		
7	b.	Weapons/sort	ies operationa	lly required t	o achieve "o		
7.00	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19
	b.	Weapons/sort	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove:732/(lly required to	o achieve "o	102/67	19 20
	b.	Weapons/sort ement shown al	les operationa bove: 732// FACHIEVING	DESIRE D DA	o achieve "o	102/67 ERION: 85%	19 20
	b.	Weapons/sort ement shown al 177/15 ROBABILITY O	les operationa bove: 732// FACHIEVING	DESIRE D DA	o achieve "o	102/67 ERION: 85%	19 20
	b.	Weapons/sort ement shown al 177/15 ROBABILITY O	les operationa bove: 732// FACHIEVING	DESIRE D DA	o achieve "o	Tab BO to Annex B to	19 20
	b.	Weapons/sort ement shown al 177/15 ROBABILITY O	F ACHIEVING A-B- Total Part of the Control of the	DESIRE D DA	o achieve "o	102/67 ERION: 85%	19 20

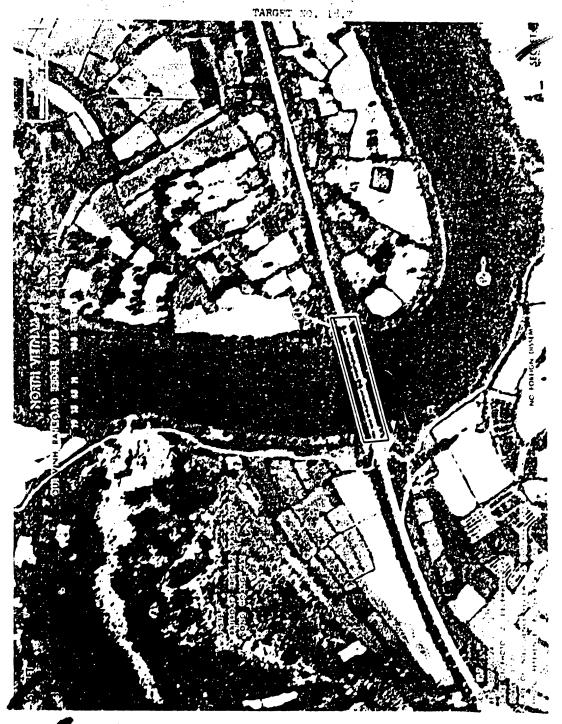




TARGET INFORMATION AND STRIKE DATA	-
1. TARGET NUMBER: 18.69 2. B.E. NUMBER: 617-0633 3. IDENTIFICATION: La Khe Thon Railroad Bridge over Name San	
P. F. MINDER: 617-622	1.
3. IDENTIFICATION: IA Khe Thon Balland Balland	2
DATE OF INFORMATION. 21 August 1000	3 4
DATE OF INTELLIGENCE REVIEW: 27 August 1968	5 6 7
Mi Thuong light-capacity railway, 31 NM S of Vinh.	8 9
is wide. It has a steel half-through-truss span on each end and 2 steel beam spans in the center, supported on trestle piers.	10 11 12
7. SIGNIFICANCE: One of the longer bridges on the 54 NM long, light-capacity rail line, S of Vinh. This line, operated by flanged-wheel trucks and small railroad cars, permits relatively large loads (33 ST) to be propelled by a single truck.	13 14 15 16
8. TARGET ENVIRONMENT: Target, about 120 ft. above sea level, 133 O.7 NM SSE of La Khe Thon. Target crosses Ngan Sau (stream) NW-SE trending valley-O.8 NM wide; valley narrows to about 200 131. width 5 NM SE of target, and widens to 2 NM, 4 NM NW of target. Sau, entrenched in cultivated valley floor, has high, steep trinks. Two small; forested pinnacles rise 200 ft. above the nearly like valley bottom O.4 NM NW of target. Valley bordered by steep, threated hills with peaks ranging from 700 to 1200 ft. above sea level NE of valley, and 1000 to 1600 ft. above sea	17- 18 19 20 21 22 23 24 25
9. DEFENSE ENVIRONMENT:	26
a. The target is within the SAM envelope.	27
b. AAA activity has been identified within 3 NM of the target.	28
c. HMC and small arms fire is anticapated.	50
10. DAMAGE OBJECTIVE: Interdiction of flanged-wheel truck traffic televen Xom Hoai and Ma Thuong. Damage criterion is collapse of the half-through truss end-span or the two-center spans and trestle piers.	30 31 32 33
11. EFFECT ON NVN: Destruction of his bridge would hamper movement Bouthward by flange-wheel truck lilway, requiring shuttling trons the barrier and placing a greater burder on parallel highway routes.	34 35 36 37
NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-R-Hob-2 TAR Both Annex	
Annual Parks	• • •
(Revised by 15th Note to Moldorn) Annex I Append:	3 to

12. RECUPERABILITY:	1
Line capacity: (Estimated) 3 "Trains"/100 ST south per day.	2
Truck shuttle could	ا.
recould be converted for rail use in 1-2 weeks.	4 5 6
Full capacity would probably require about a week.	8
STATE OF THE PROPERTY OF THE P	9
a. Insignificant:	10
a. Insignificant: Discrete Population Casualties* Target Area Adjacent Area Target Area Adjacent Area	
Target Area Adjacent Area Target Area Adjacent Area	12
Mil Civ Mil Civ Mil Civ Mil Civ	13
Target Area Adjacent Area Target Area Adjacent Area Mil Civ Mil Civ Mil Civ Mil Civ O 0 0 150 0 0 0 2 *Casualties estimated under daylight alert conditions	14
*Casualties estimated under daylight alert conditions. 14. RECOMMENDED WEAPONS AND SORTIES:	15
14. RECOMMENDED WEAPONS AND SORTIES:	16
a. In order to achieve the desired damage criterion,	17
weapons/sortles required over target:	18
WEAPON 500# 500# 750# SNAKEYE or BOMB or BOMB	19 20
58/6 237/26 118/20	21
"over target" requirements shown shove:	22
"over target" requirements shown above: 161/13 70/3 285/32 142/24	23
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 85%	
196 INDUMENTAL OF ACTUENTING DESTRED DAMAGE CRITERION: 05%	25
The state of the s	
The state of the s	
And the second s	
8F RET #18.6	9
A-II-II0h-3	. • •
	nyto B to dix A

TAB. BR. TO AMERICA TO APPELLA A



med by lite Nah)

A-B-RP-1



TARGET INFORMATION AND STRIKE DATA

the second secon

1. TARGET NUMBER: 18.7	1
2. B. E. NUMBER: 617-0024	5
3. IDENTIFICATION: Qui Vinh Railroad Br ov Song Hoang	3
Mai. 4. DATE OF INFORMATION: 17 September 1968 DATE OF TISD: 11 December 1968 DATE OF PHOTOGRAPHY: 20 December 1964 DATE OF INTELLIGENCE REVIEW: 16 October 1968	4 5 7
5. LOCATION: 19-15-45N 105-41-20E, located on the Ha Noi-Vinh rail line, about 0.7 NM W of Qui Vinh, 43 NM N of Vinh.	8 9 10
6. DFSCRIPTION: Bridge, oriented ENE/WSW, is 352' long and 22' wide. It has 2 steel through-truss spans, a concrete pier, and concrete abutments. There are 3 rail bypass bridges (617-1501, -1973, and -3681).	11 12 13 14
7. SIGNIFICANCE: This bridge is an important link on the southern part of the Ha Noi-Vinh rail line, between Thanh Hoa and Vinh.	15 16 17
8. TARGET ENVIRONMENT: Target, over Song Hoang Mai about 4.5 NM from coast, is about 20' above sea level. Target area consists of relatively flat rice cultivated plain broken by many low hills rising to as high as 400' above sea level less than one NM S of target. Two small hills rise to about 200' just W of target. A triangular shaped lake, 0.5 NM long, is located 1.2 NM N of the target. A ridge extending NW from the lake reaches over 1,000' about 3.2 NM N-NW of the target. Railroad extends NE and SW from target. National Route No. 1 extends N-S about 1.5 NM E of target.	18 19 20 21 22 23 24 25 26 27 28
9. DEFENSE ENVIRONMENT:	29
a. The target is within the SAM envelope.	30
b. AAA activity has been identified within 3 NM of the target.	31 32
c. HMG and small arms fire is anticipated.	33
10. DAMAGE OBJECTIVE: Interdiction of rail traffic between Ha Noi and Vinh. S of Thanh Hoa. Damage criterion is the collapse of at least one span.	34 35 36
11. EFFECT ON NVN: Destruction of this bridge would prevent through rail traffic 8 of Thanh Hoa.	37 38

SE RET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Holdern)

A-11-11P-2

TAR BRo Funex B to Appendix A



T 00.30	12. RECUPERABILITY:	1
100	day. Line capacity: 9 Trains/3500 ST each way per	2 3
	or pontoon bridge would provide capacity of 1000-2000 ST/Day after 5 days and full capacity after about a week.	14 5
• 646	restoration to full capacity would require 4 to 5 weeks. Complete restoration to pre-attack status would require 4 to 5 months.	7 8 9 10
٠, ٠	.13. COLLATERAL DAMAGE: None	11
	14. RECOMMENDED WEAPONS AND SORTIES:	12
•	a. In order to achieve the desired damage criteric weapons/sorties required over target:	n 13
••••	250# 500# 500# 750# WEAPON SNAKEYE SNAKEYE BOMB BOMB	15 16
	(352'x22') 147/12 62/7 259/29 125/21	17
	b. Weapons/sorties operationally required to achieve "over target" requirement shown above:	18 19
	177/15 75/8 311/35 150/25	20
	15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION:	21 22

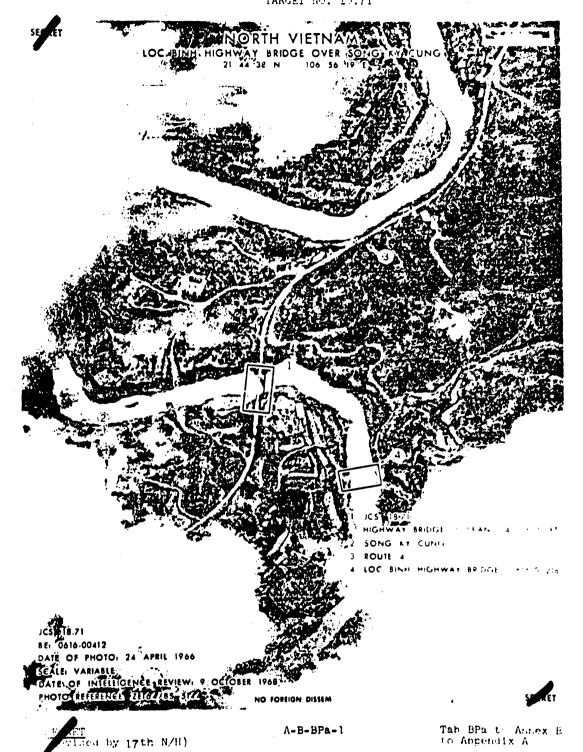
TGL 48

· #18.7

(Revised by 15th Note to Holders)
A-B-BP-3

7'AB BP to Annex B to Appendix A

TAB BUG TO ANNEX B TO APPENDIX A TARGET NO. 13.71





S MET	
The state of the s	
TARGET INFORMATION AND STRIKE DATA	
TARREST WILLIAMS	
TARGET NUMBER: 18.71	1
2. BE NUMBER: 616-0412	2
3. IDENTIFICATION: Loc Binh Hwy Br ov Song Ky	Cung 3
4.3 DATE OF INFORMATION: 28 October 1968	. 4
DATE OF TISD: 3 December 1968 DATE OF PHOTOGRAPHY: 24 April 1966	5
DATE OF INTELLIGENCE REVIEW: 9 October 1968	3 7
5. LOCATION: 21-44-38N 106-56-19E, located or	North 8
Vietnam Route 4 approximately 12.5 NM SE of Lang Sc	on. 9
6. DESCRIPTION: Oriented NW/SE with overall of	imension 10
of 410' x 10', the bridge is a 5-span structure on concrete piers. The east-central span is a 190' st	solid 11 ceel 12
half-through truss; the 2 adjacent spans to the NW	are con- 13
crete deck-type with lengths of 77'; the end spans concrete deck-type with lengths of 33'. The Loc Binghway bridge #2 (BE No. 616-0219) is located approximately 15 to 1	are snort14
highway bridge #2 (BE No. 616-0213) is located appr	roximate- 16
ly 355 yards to the NW. The roadway is elevated for approximately 500! at both approaches.	o r 17
70 SIGNIFICANCE: The target lies on Route 4,	
route linking Lang Son with the northern North Vie	tnam 20
coast at Tien Yen and provides access to points all coast E and S. The target also controls a possible	ong the 21
ternate route to the Lang Son - Ha Noi supply route	e via 23
Route 13B from Dinh Lap to Bac Giang. Should this	
be interdicted, traffic between the coast and Lang would be interrupted.	Son 25
8. TARUET ENVIRONMENT: Bridge crosses SW-flor	wing 225127
wide Song Ky Cung (river) at Po Loi, approximately	2,400 28
yards SE of Loc Binh. Banks of meandering Song Ky are steep throughout most of target area, except a	
the 800 yard stretch of N bank immediately E of ta	rget. 21
Terrain in target area mostly rugged harst hills, to the W where high hills and low mountains, rising	except 22
	g up 21 ce is 21
cultivated mainly in southern karstic hills and al	ong Song 2
Ky Cung floodplain.	20
9. <u>DEFENSE ENVIRONMENT</u> :	. 27
a. The target is not within the SAM envel	ope. 28
b. AAA activity has not been identified w 3 NM of the target.	ithin 29
c. IMS and small arms fire is not anticip	_
10. DAMAGE OBJECTIVE: Interdiction of traffic Lang Son and the NVN northern coast. Damage crite	between 3
destruction of at least one span, particularly the	190' 3
steel half thru truss span.	3!
SECULT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC D	OWNGRADING
The second secon	
A-B-BPa-2	Tab BPa to
(Revised by 17th Note to Holders)	Annex B to Appendix A
··· · · · · · · · · · · · · · · · · ·	• •



initiall 4 along Routes 1	EFFECT y inter the Chi A and 1	na border b	struction bsequently etween its Son and Di	delay tra	affic on Rout	e 2 3 4		
12. 1ished the and also 200 yard long steed and days.	RECUPER by the u c a seas is S of sel half i tresti Reconstr y would	ABILITY: 1 se of the 2 onal ferry/ the bridge. thru truss ing could b uction of t	mmediate bipper Brid ford (BE N Temporar span by 1 se accompli the span to	ige (BE No io. 0616-0 y restora lower capa ished in l o full pre	ld be accomp 616-0219) 3689) located tion of the city timber 5 to 20 -strike nding upon	6		
13.	COLLATE	RAL DAMAGE				14		
.*	a. Non	e				15		
	b.	Population		Casu	alties*	16		
****	Target	Area Adjac	ent Area	Target Ar	es Adjacent	Area 17		
100 to 100 to 4	Mil	Civ. Mil	Civ	Mil C	iv Mil	Civ 18		
		0 0				0 19		
	*Casual		•		alert con-	20 21		
14.	RECOMME	NDED WEAPO	NS AND SOR	ries:		22		
criteri		order to a				23 24		
WEAPON		250# Snakeye	500# Snakeye	500# BOMB	750# BOMB	25 26		
		141/12	65/7	266/30	150/25	27		
achieve	b. Weapons/sorties operationally required to achieve "over target" requirements shown above:							
		170/14	78/9	320/36	180/30	30		
85 %	PROBAB:	ILITY OF AC	HIEVING DE	SIRED DAMA	AGE CRITERION	: 31 32		

SEC LI

- A-B-BPa-3

(Revised by 17th Note to Holders)

Tab BPa to Annex B to Appendix A



TAB BPh TO ANNEX B TO APPENDIX A

TARGET NO. 18.78



TOP SI CRET
(Rey lied by 11th N/H)

A-B-BPh-I

Too PPh to Angex Detail Appendix A

target information and strike data

The latest	3
DATE OF INFORMATION: 13 September 1966 DATE OF TIS: 5 October 1966	1
DATE OF PHOTOGRAPHY: 2C July 1069	3
DATE OF INTELLIGENCE REVIEW: 10 September 1965	:
5. LOCATION: 21-21-36N-106-32-15E, UTM XJ 594625. Located on North	1
Notice 13r, 42 Md EME OF MR NOI.	9
6. DESCRIPTION: Oriented NE/SW, the bridge is a three-span probable	10
concrete deck type structure on concrete piers with overall dimensions of 125 ft. x 16 ft. The bridge approaches are slightly elevated above the surrounding terrain.	1:
	1
errowced approximately 400 ft. south of the bridge.	1
7. SIGNIFICANCE: This tridge is one of two selected targets (JCS 18.67	19
and 18.78) on Route 13B, the nearest alternate road via Route 4 to the Lang Son - Ha Noi rail line and Route 1A, the principal highway LOC in northeast	10
not on tracham. Noted 130 15 combitation with the section of boise 1 days	1
Lang Son to Dinh Lap could accommodate slightly over half of the capacity of Route 1A between Lang Son and Ha Noi.	19
	2:
8. TARGET ENVIRONMENT: The target is situated in a broad, gently rolling	2
alluvial plain extending approximately 10 NM to the northeast. The plain proadens and becomes flatter as it merges with the Red River Pelta to the	22
southwest. The surrounding land is extensively sultiveted with deviced and	2
out the digner areas and vetland rice in numerous reclaimed strong bade de-	2
secting the area and producing a distinctive irregular cultivation pattern. The village of Lam is located 1.5 NM SSW of the bridge and the remaining popu-	20
LATION IN THE BITE IS CONTINED to small, widely senerated agreent the land	2
butter and stitum over which the bridge transactions the meastering come the	29
Nam 0.5 NM SM of the bridge.	30
9. Defense environment:	3
a. Ten SAM sites have been identified within SA-2 missile range (17.5	32
NM) of the target, and 21 additional SAM sites have been identified 18-30 NM distant.	3
	31
b. No AAA defenses have been identified in the immediate vicinity of the target. A 6-position inactive 37mm sight has been identified approximately approxim	3
mately 2.5 NM north in the Dong Giao area.	34 31
c. Moderate PMG and small arms fire is anticipated, due to the presence	
of several barracks in the vicinity.	38 39
10. DAMAGE OBJECTIVE: Interdiction of traffic on Route 13B. Damage	40
eriterion is destruction of at least one span.	4)
11. EFFECT ON HVM: Interdiction of this bridge will interrupt through	42
raffic on Route 13B and create a bottleneck until the bridge is restored. The use of this route as an alternate to Route 1A would be temporarily denied.	4:
deutschiff.	



A-B-BPh-2

Tab BPh to Annex B to Appendix A

(Revised by 11th Note to Holders)

12. R accomplimited ford co require of esti structi	ECUPERAB ished ov service uld requ up to a mated 40	Ver the sable saline up to the term of term of the term of the term of the term of ter	nearby a tatus in to a wee Install ength cou yed span	ite low	capacided ford two datalest of a termonal	ty bypa which ys. Pri ion of mporary lahed w	could (eparat a tempo timbe: ithin o	oe impri ion of orary for deck	dge could be oved to a a permanent ord could type section k. Reconsire six to	2 3 4
11. 13. <u>c</u>	OLLATERA	L DAMA			· · · · · · · · · · · · · · · · · · ·	3.5	g Siresian (1 es 1,100 es 8 (bersje	e gradi dul		9
4	. None					•				10
ь.	· mi · ·	Popu l	ation				Casua	ities*	•	11
	Target	Area	Adjacen	t Area	,	Target	Area	Adjac	ent Area	12
,	Mi 1	Civ	Mi1	Civ	•	Mil	CĮĀ	M11	Civ	13
	0	0	0	0		0 .	o	0	0	14
	*Casua	lties	estimated	under	dayligi	nt eler	t cond	itions.		15
14. <u>R</u>	ECOMMEND	ED WEA	FONS AND	SORTIE	<u>:</u>					16
requ	. In ord	ler to r targ	achieve t et:	he des	ired da	mage cr	iterio	n, weap	ons/sorties	17 18
WEAPON			250# Snakeye	or	500₽ BOMB	or	750# BOMB	or	1000# BOMB	
(125×16)		130/11		350/39		270/4	5	245/82	19
b requ	. Weapor	ns/sort shown	ies opera above:	tional	lly requ	ired to	achie	ve "ove	r target"	20 21

427/48

159/14

15. PROBABILITY OF ACHIEVING DAMAGE CRITERION:

TOP SECRET

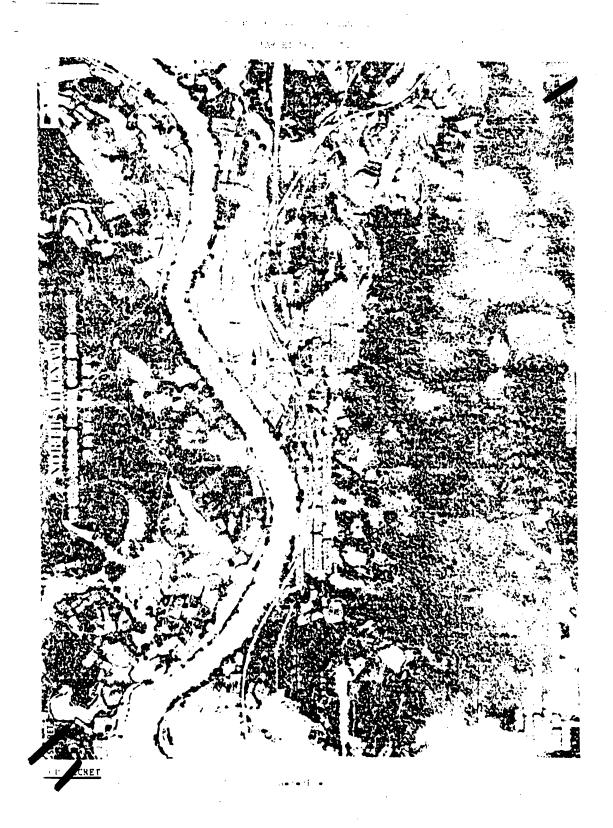
A-E-BPh-3

(Revised by 11th Note to Holders)

Tab BPh to Annex B to Appendix A

299/100

22



1 MARGER ARREST	
1. TARGET NUMBER: 18.74	1
2. <u>BE NUMBER</u> : 616-1150	2
3. IDENTIFICATION: Vu Chua Railread Bridge South over Suci Ngang	3
4. DATE OF INFORMATION: 14 July 1066 DATE OF TIS: 20 June 1066	5
5. <u>LOCATION</u> : 21-26-35N 106-21-28E, UTM XJ 406716	7
6. DESCRIPTION: Oriented NE/SW. 99' long by 11' wide, carries a meter gage, single track railroad line. The structure has two steel thru truss spans with concrete piers and abutments.	8 9 10 11
7. SIGNIFICANCE: Located on the only rail line between Hanoi and Finghsiang, Kwangsi Province, China. This line is the most important rail link between North Vietnam and China and provides the only railroad connection with the standard-gage Chinese railroad system. All military support moved by rail from eastern China and the USSR must move over this line and across the bridge.	12 13 14 15 16 17 18
8. TARGET ENVIRONMENT: Target bridge, about 65 ft. above sea level, is about 15 statute miles NE of Bac Giang; it crosses east bank tributory of N-S oriented Song Thuong within 300 ft. of main stream. Target area on dissected plain, oriented NE-SW, with many small, wooded knobby hills separated by low areas planted to wetland rice. E and S of target are wooded hills and hill ridges 350 to 1250 ft. above sea level, trending NE-SW; N and W of target, wooded hills 350 to 1100 ft above sea level, RR approaches target site from NE, continues NE beyond area. Principal road oriented N-S, about 4 miles W of target site. 0.8 miles SW of target site, Song Thuong turns west to intersect principal road.	22 23 24
9. DEFENSE ENVIRONMENT:	31
a. Thirteen SAM sites have been identified within SA-2 missile range (17.5NM) of the target, and 11 additional SAM sites have been identified 18-30 NM distant.	32 33 43
b. Identified AAA activity in the Vu Chun area consists of 2 inactive 37-mm sites. The nearest active AAA defense is in the Kep (25 active sites) area 45NM SW. (DOI: 15 October 1965 - 8 June 1966)	35 36 37 38
c. Sparse HMG and small arms fire is anticipated from local milmia.	39 40
10. DAMAGE OBJECTIVE: Interdiction of traffic between Hanoi and Communist China. Damage criterion is collapse of at least one span.	41 42 43
11. EFFECT ON NVN: Interdiction of this target will halt through rail traffic between Hanoi and Kwangsi Province, China	44 • 45
A-B-BPd-2 Tab BPd to Annex B to Appendix A	

(Revised by 9th Note to Holders)







12. RECUPERANI LITY:	1
a. Estimated maximum line capacity:	2
TD 9 (EWPD) 1700 ST/Day 3300 ST/Day (if additional locomotives were available	3 4 5 6
b. Emergency facility:	7
Emergency ferry facility and/or pontoon bridging (for vehicular shuttle over the river) would permit about 700 ST/Day throughput capacity after 7-10 days.	8 9 10 11
c. Bridge reconstruction:	12
Emergency bridge restoration (semi-permanent construction) would permit 1700 ST/Day throughput capacity after 4-6 weeks. Bridge reconstruction to pre-attack status 2-4 months.	1 14 15 16
13. COLLATERAL DAMAGE: Insignificant	.17
14. RECOMMENDED WEAPONS AND SORTIES:	કદ
a. In order to achieve the desired damage objective, weapons/sorties required over target:	19 20
Weapon: 250# 500# 250# 1,000# 750# BULLPUP or BULLPUP or BOMB	
175/15 110/12 60/30 30/15 400/67	21
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	53 55
213/18 134/15 73/37 37/19 488/81	24
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION: 85%	25

TOP DECRET

A-B-BPd-3

Tab BPd to Annex B to Appendix A

(Revised by 7th Note to Holders)

TARGET NO. 15,7%





A-B-BPe-1

 $\begin{array}{ll} \operatorname{Fam}(\partial P_{\theta}) & \operatorname{to}(\operatorname{Art}(\partial x)) \\ \operatorname{for}(\partial x) & \operatorname{sol}(\operatorname{At}(x)) \end{array}$



1. TARGET NUMBER: 18.75	1
2. <u>BE NUMBER</u> : 616-1159	2
3. IDENTIFICATION: Lang Met I'my Br ov Song Thuong	3
4. DATE OF INFORMATION: 14 July 1966 DATE OF TIS 20 June 1966	4
5. LOCATION: 21-30-21N 106-21-08E, UTM XJ 401787. Located on North Vietnam route 1A, 40 NM NE of Hanoi.	6 7
6. DESCRIPTION: Oriented ENE/KSW with overall dimensions of 236' x 14', the bridge is a six span steel truss (possibly continuous) and concrete dock structure with prob. concrete piers and abutments. The four central spans are of steel truss construction with lengths of approximately 48 feet; two short concrete deck spans of approximately 22-foot length at the shore ends complete the structure. The bridge capacity is estimated at 15 tons. The bridge was built after 1962 to replace a ferry bottleneck installed to bypass a bridge destroyed earlier, probably during the Indo-China conflict. The ferry ramps, located just north of the bridge, appear to be in serviceable condition but would require some improvement for extensive use.	9 10 12 13 14 15 16 17
7. SIGNIFICANCE: The bridge lies on route 1A, the principal highway LOC in north-eastern North Vietnam. The bridge controls traffic between Kep and Lang Son where Route 1A could be used as an alternate to the rail line which closely follows it from Lang Song to Hanoi. Interdiction of this bridge will interrupt the highway traffic initially and create a bottle-neck when the ferry is reactivated.	21 22 23 24 25 26 27
8. TARGET ENVIRONMENT: This target is nituated in a foot-hill region of the Northern edge of the Tonkin delta in which Hanoi is centered. Hills rise to the north from 600' within 1/2 mile of the target to over 1500' at a distance of 3 miles. The Song Thuong meanders at this location but cuts a clear channel from the Northeast and past the target site. It appears navigable to river craft. The bridge site is partially surrounded on the western bank by moderately populated town of Lang Met and leads to an industrial installation off the eastern end. Although the river banks near the site have a gradual slope, the inactive ferry approaches appear partially eroded from weathering.	289312334537339
9. DEFENSE ENVIRONMENT: a. Twelve SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 11 additional SAM sites have been identified 18-30 NM distant.	40 41 42 43
b. No AAA activity has been identified in the immediate vicinity of the target. The nearest active AAA defenses are in the Kep area (25 active sites) 7 NM to the SSW.	44 45 47 48
c. Sparse HMG and small arms fire is anticipated from local militia.	49 50

TOP CRET

A-B-EPe-2

Tab BPe to Annex B to Appendix A

(Revised by 9th Note to Holders)



TOP CORET

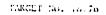
10. DAMAGE OBJECTIV Lang Son, Dong Dang a destruction of at lea	nd Southern Chin st one of the fo	a. Damage cri ur steel truss	terion is spans.	1 2 3
11. EFFECT ON DRV: cause significant red important road access Dong Dang. This rout alternate means for m llanoi - North East ra	uction in throug from Southern (would be heavi	h capacity on hina via Lang ly depended on	the most Son and as an	4 56 7 8 ••9
12. RECUPERABILITY: over the adjacent for obtained. The recove upon the number of sp. inflicted upon the re- spans could be replace treatle section of li- struction of a destro- upon the availability plished in four to si	ry site as soon my period for the ans destroyed an maining spans. Set temporarily builted capacity wyed span to full of structural sk weeks.	as ferry equip e bridge itsel d the amount o One of the 48- y a timber dec ithin one week	ment 1s f depends f damage foot truss k and Recon-	10 11 12 13 14 15 16 17 18
13. COLLATEFIAL DAMAG	E: Insignifica	nt.		20
14. RECOMMENDED WEA	PONS AND SORTIES	.		21
a. In order to a weapons/sorties re-	ichieve the desi quired over targ	red damage object:	ective,	53 55
Weapon: BULLPUP	250# or <u>Snakeye</u> o	500# SNAKEYE	750# BUMB	
32/16	800/67	350/39	330/6	3 24
b. Weapons/sort: "over target" requir	es operationall rements shown ab	y required to a	chieve	50 52
39/20	976/82	427 <i>)</i> 47	463/77	7 27
15. PROBABILITY OF	CHIEVING DESIRE	D DAMAGE CRITE	RION: 85%	



A-B-BP e-3

Tab BPe to Annex B to Appendix A

(Revised by 7th Note to Holders)





top ZCRET

A=B=BP: •:





1. TARGET NUMBER: 18.76	1
2. BE NUMBER: 615-0283	2
3. IDENTIFICATION: Ha Chanh Hwy Br ov Stream	3
4. DATE OF INFORMATION: 14 June 1966 DATE OF TIS: 20 June 1966	4 5
5. LOCATION: 21-07-24N 107-21-05E, UTM YJ 440374. Located on North Vietnam Route 18, approximately 8 NM NNE of Cam Pha Port.	6 7 8
6. DESCRIPTION: Oriented NNW/SSE, this bridge has overall dimensions of 185' x 12' with probable 3 concrete dock type spans. Details on substructure and vertical clearance unknown. No alternate crossing available in the immediate vicinity of the target.	9 10 11 12 13
7. SIGNIFICANCE: This target forms one of the critical structures on Route 18 which provides access along the Northeast coast from Route 4 near the Chinese border to Hanoi via mining and port activities at Cam Pha and Hon Gai.	14 15 16 17
8. TARGET ENVIRONMENT: This target is situated in a hilly coastal area bordered on the west by mountains reaching over 2000' and on the east by marine swamp. The local region is lightly populated with the nearest village, Khe Lan, approximately 1 NM to the south. The terrain surrounding the target is undeveloped and the stream appears unfordable at the bridge site.	18 19 20 21 22 23 24
9. <u>DEFENSE ENVIRONMENT</u> :	25
a. No SAM sites have been identified within SA-2 missile range of this target. Two missile sites are 18-30 NM distant.	26 27 28
b. The nearest identified AAA defenses are located in the Cam Pha area, approximately 7NM south, where 5 inactive sites have been reported.	29 30 31
c. No military units are known to be in this area; however, some machine gun/small arms fire from local militia guarding the Route 18 bridges would be antici- pated.	32 33 34 35
10. DAMAGE OBJECTIVE: Interdiction of traffic from Communist China to the Hon Gai - Cam Pha Area. Damage criterion is destruction of at least one span.	36 37 38
11. EFFECT ON NVN: Effective interdiction at this location would deny direct road access from Chini to the Hon Gai - Cam Pha coal mining district as well as an important secondary access to the Hanoi - Haiphong complex.	39 40 41 42

TOP ECRET

A-B-BPf-2

Tab BPf to Annex B to Appendix A

(Revised, by 8th Note to Holders)

TOP SECRET



TOP MORET

vould more trestle could be available concrete damage to 13. Co	CUPERABILITY: bridging equal trikely be consing adjates accomplished materials. casting may opiers and a LLATERAL DAMA COMMENDED WEA	ipment, initundertakent to the cent to the in less the Deliberate take up to butments.	cial restor by erection original b in ten days permanent months de	ation of se of a low l ridge site. with local repairs wit	rvice evel timbe This ly h in-place	4 5 8 6
R. Weapon	In order to	achieve the quired over	desired da target:	mage criter	ion,	11 12
Weapon:	250# SNAKEYE or	500# SNAKEYE or	250# BULLPUP or	1000# BULLPUP or	750# BOMB	
	95/8	60/7	45/23	23/12	205/34	13
b. "over	Weapons/sort target" requ	ies operation	onally requ	ired to ach	ieve	14 15
	116/10	73/8	55/28	28/14	250/42	16
15. PR	OBABILITY OF	ACHIEVING D	ESIRED DAMA	GE CRITERIO	<u>N</u> : 85%	17

TOP CRET

A-B-BPC-3

Tab BPf to Annex B to Appendix A

(Added - 5 January 1966)

TOP SECRET

TAB BPg TO AND X B TO APPENDIX $\bar{\Lambda}$

TARGET NO. 18-77



COPY ACRE 1 Repeated by 900 N/H)

A - Dr. 1812 . .

State Of March

·	المراجع المستخطين المستخطر المستخل المستخطر المستخطر المستخطر المستخطر المستخلين المستخطر المستخليد المستخلين المستخلين المستخليد المستخلي المستخلين المستخلين المستخلي المستخلين المستخلين المستخلين المستخلين المستخلين المستخل	
	1. TARGET NUMBER: 18.77	1
	2. BE NUMBER: 615-0350	2
	3. IDENTIFICATION: Ha Chanh Hwy Br N ov Stream	3
. —	4. DATE OF INFORMATION: 14 July 1966	4
	DATE OF TIS: 23 July 1966	5
	DATE OF PHOTOGRAPHY: 28 July 1965	6
	DATE OF INTELLIGENCE REVIEW: 23 September 1965	7
الوالسواليوسي	5. LOCATION: 21-07-30N 107-21-09E, UTM YJ 442376. Located on	8
	North Vietnam Route 18, approximately 9 NM NNE of Cam Pha Port.	9
	6. DESCRIPTION: Oriented NE/SW, this bridge has overall dimensions	10
	of ou it by 12 it with probably 2 concrete deck type spans. Details on	11
	substructure and vertical clearance unknown. No readily available alternate	12
	crossing sighted in vicinity of the target	13
	7. SIGNIFICANCE: This target supplements a major crossing, BE	14
	615-0283, over 500 yards to the south on Route 18. This route provides	15
	access along the NE coast from Route 4 near the Communist Chinese border	16
	to Ha Noi via mining and port activities at Cam Pha and Hon Gai.	17
	8. TARGET ENVIRONMENT: This target is situated in a hilly coastal	18
	area bordered on the west by mountains reaching over 2000 ft and on the east	19
	by marine swamp. The local region is lightly populated with the nearest village, Khe Lan, approximately one NM to the south. The terrain	20
	surrounding the target is undeveloped and the stream appears unfordable at	21
	the bridge site.	22 23
	9. DEFENSE ENVIRONMENT:	24
		-7
	a. No SAM sites have been identified within SA-2 missile range	25
	(17.5 NM) of this target. Two missile sites have been identified 18-30	26
	NM distant.	27
	b. The nearest identified AAA defenses are located in the Cam Pha	28
	area, approximately 7 NM S, where 5 inactive sites have been reported.	29
	c. No military units are known to be in this area; however, some	30
	machine gun/small arms fire from local militia guarding Route 18 bridges	
	would be anticipated.	32
	10. DAMAGE OBJECTIVE: Interdiction of traffic from Communist China	33
	to the Hon Gai - Cam Pha Area. Damage criterion is collapse of at least	34
	one span.	35



A-B-BPg-2

(Revised by 9th Note to Holders)

Tab EPg to Annex B to Appendix A



mining distr	access from rict as well a	Y: Effective : Communist (s an importa	China to the	Hon Gai	i - Cam	Pha	1 2 3
nai Phong.	THE TANK OF THE PARTY.	and a state of this seek of a state					4
A Line of the last							•
IZ. REC	UPERABIL!	Y: Assumin	g non-avalla	billity o	f testio	al military	3
oriaging, pi	cobable loss	of one span o	ver the relat	ively s	hallow 1	eeder vinesm	6
av dita bridg	te site may to	ke less than	3 to 4 days	to resto	ore with	it saily	7
less incleme	mber matern	ds. This str	eam appears	proba	bly ford	able during	3
be made sur	ene perioda d	tine year.	in estimated	sandy	b.t.om	condition may	
Permanent	periant to t	vater traffic	within an equ	ially sh	or: per	cd.	3 C
ore month.	sep.acement	to its origina ady availabili	L concrete d	esign s	hould te	ke ai ita.	.1
	essentitue te	EGA MARITMOTT	ty of cement	and re	inic role	ig steet.	; 2
13. COL	LATERAL D	AMAGE	· · · · · · · · · · · · · · · · · · ·				13
A 1	None						14
b.	Popu	lation		Cast	alties*		15
7	Carget Area	Adjacent År	ea Targe	t Area	Adjace	ent Area	16
7	Ail Civ	Mil Civ	Mil	Civ	Mil	Clv	17
	0 0	0	0	0	0	0	18
	Casualties e	stimated und	er daylight a	lert co	nditions		19
14. REC	OMMENDED	WEAPONS A	ND SORTIE	<u>s:</u>			20
a. I	n order to ac	hieve the dea	ized damage		don wa	/	21
	required ove				1011, WE	apons/	22
	.5.						
WEAPON	250# Snakeye	250# or BULLP	250# UP or BOM		00# OMB o:	750# PBOMB	
(80x12)	210/18	68/34	900/	75 51	75/64	460/77	23
	Weapons/sor	ties operation bove:	ally require	d to ac	hieve "	over target!	24 25
	256/22	83/42	1098/9	92 70	01/78	561/94	26
15. PRO	BABILITY C	F ACHIEVIN	G DESIRED	DAMAC	SE CRIT	TERION: 85%	. 27



A-B-BPg-3

(Revised by 9th Note to Holders)

Tab BPg to Annex B to Appendix A TAN BUT TO ANDEX BOLD APPROPRIATE



top ARET

Assestas





1. TARGET NUMBER: 18.78	1
2. BE NUMBER: 616-1253	2
3. IDENTIFICATION: Lam Hwy Br NE ov Song Luc Nam Trib	3
4. DATE OF INFORMATION: 14 July 1966 DATE OF TIS: 20 June 1966	4 5
5. LOCATION: 21-21-33N 106-32-15E, UTM XJ 594625. Located on North Vietnam Route 13B, 42 NM ENE of Hano1.	1 6
6. DESCRIPTION: Oriented NE/SW, the bridge is a three span probable concrete deck type structure on concrete piers with overall dimensions of 125' x 16'. The bridge approaches are slightly elevated above the surrounding terrain. An abandoned ford with approaches in poor condition is situated approximately 400 feet south of the bridge.	8 10 11 12 13
7. SIGNIFICANCE: This bridge is one of two selected targets (JCS 18.67 and 18.78) on Route 13B, the nearest alternate road via Route 4 to the Lang Son-Hanoi rail line and Route 1A, the principal highway LOC in northeast North Vietnam. Route 13B in combination with the section of Route 4 from Lang Son to Dinh Lap could accommodate slightly over half of the capacity of Route 1A between Lang Son and Hanoi.	14 15 16 17 18 19 20
8. TARGET ENVIRONMENT: The target is situated in a broad, gently rolling alluvial plain extending approximately 10 NM to the northeast. The plain broadens and becomes flatter as it merges with the Red River Delta to the southwest. The surrounding land is extensively cultivated with dryland crops on the higher areas and wetland rice in numerous reclaimed stream beds dissecting the area and producing a distinctive irregular cultivation pattern. The village of Lam is located 17 NM SSW of the bridge and the remaining population in the area is confined to small, widely separated agricultural hamlets. The stream over which the bridge passes joins the meandering Song Luc Nam 2 NM SW of the bridge.	21 22 23 24 25 26 27 28 29 31 32
9. DEFENSE ENVIRONMENT:	33
a. Twelve SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 17 additional SAM sites have been identified 18-30 NM distant.	34 35 36
b. No AAA defenses have been identified in the immediate vicinity of the target. A 6-position inactive 37-mm sight has been identified approximately 2.5 NM north in the Dong Giao area.	37 38 30 40
c. Moderate HMG and small arms fire is anticipated, due to the presence of several barracks in the vicinity.	41 42

TOP CRET

A-B-BPh-2

Tab BPh to Annex B to Appendix A

TO DE WASTRIET

(Revised by 9th Note to Holders



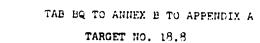
Damage criterion is destruction of at least one span.	1
interrupt through traffic on Route 13B and create a bottle- neck until the bridge is restored. The use of this route as an alternate to Route 1A would be temporarily denied.	3 4 5 6
bridge could be accomplished over the nearby abandoned ford which could be improved to a limited serviceable status in one to two days. Preparation of a permanent ford could require up to a week. Installation of a temporary ford could require up to a week. Installation of a temporary timber deck type section of estimated 40 ft. length could be accomplished within one week. Reconstruction of a destroyed span to pre-strike capacity would require six to eight weeks.	7 8 9 10 11 12 13 14 15
13. COLLATERAL DAMAGE: Insignificant.	16
14. RECOMMENDED WEAPONS AND SORTIES:	17
a. In order to achieve the desired damage criterion, weapons/sorties required over target:	18 19
Weapon CNAKEYE or SNAKEYE or BULLPUP or BOMB	
130/11 83/9 50/25 23/12 270/45	SC
b. Weapons/sorties operationally required to achieve "over target" requirement shown above:	35 51
159/13 100/11 61/31 28/14 329/55	23
15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 85%	24

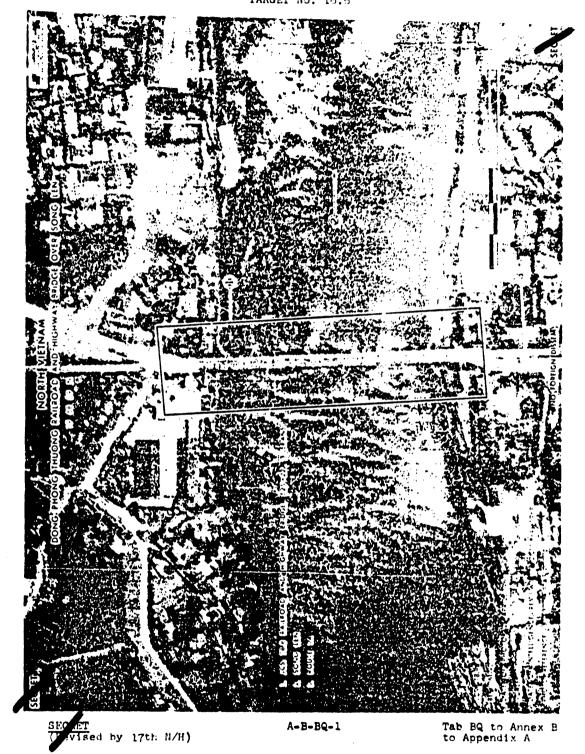
TOP SCRET

A-R-RPh-2

Tab BPh to Annex B to Appendix A

(Revised by 9th Note to Holders)







1. TARGET NUMBER: 18.8	1
2. B.E. NUMBER: 617-0001	2
3. IDENTIFICATION: Dong Phong Thuong Railroad and Highway Bridge Over Song Len	3 4
4. DATE OF INFORMATION: 19 September 1968 DATE OF TISD: 23 January 1969	5 6
DATE OF PHOTOGRAPHY: 2 April 1965 DATE OF INTELLIGENCE REVIEW: 17 October 1968	7
5. LOCATION: 19-58-39N 105-50-50E, located on the Ha Noi-Vinh rail line and highway Route 1A, 11 NM N of Thanh Hoa.	9 10
6. DESCRIPTION: Bridge, oriented N/S, is 525' long and 22' wide. It has 3 steel through-truss spans with masonry piers and abutments. A single highway lane is superimposed over the single, meter gauge track through the trusses. There are 5 rail bypass bridges (617-1552,	11 12 13
-3552, -3615, -4386, and -4903) and 4 highway bypasses: 3 bridges (617-4719, -4720, and -4910) and a ferry (617-4721).	15
7. SIGNIFICANCE: A vital link on the important rail line connecting Ha Noi with Thanh Hoa and Vinh, the most southern station in the North Vietnam rail system.	17 18 19
8. TARGET ENVIRONMENT: Target crosses the Song Len (river) about 6 NM NE of its confluence with the Song Ma. It lies on a low flat plain; hills lie 2.0 NM ENE, 1.5 NM W, 1.2 NM NW, and 1.7 NM S of target.—Wetland rice covers the plain, scrub and forest cover the hills W and NW of target, and grasslands cover the hill S of target. The Song Len is 450° wide at the target. Dense population along river, sparse away from river.	20 21 22 23 24 25 26
9. DEFENSE ENVIRONMENT:	27
a. The target is within the SAM envelope.	. 28
b. AAA activity has been identified within 3NM of the Target.	29
c. HMG and small arms fire is anticipated.	30
10. DAMAGE OBJECTIVE: Interdiction of traffic between Ha Noi and Vinh, N of Thanh Hoa. Damage criterion is the collapse of at least	31 32

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

N-B-BQ-2

(Revised by 17th Note to Holders)

Tab BQ to Annex B to Appendix A

SF RET	
11. EFFECT ON NVN: Destruction of this bridge will halt rail traffic and hamper highway traffic between Ha Noi and Thanh Hoa.	1 2
12. RECUPERABILITY:	3
a. Rail	4
(1) Line capacity: 9 Trains/3500 ST each way per day.	5
(2) Emergency facility: Vehicular shuttle via an emergency ferry and/or pontoon bridge would permit 1000 to 2000 ST/Day capacity after 5-7 days.	6 7
(3) Bridge reconstruction: Emergency restoration to full capacity would require 4 to 5 weeks. Complete restoration to preattack status would require 4 to 6 months.	8 9 10
b. Highway vehicular traffic could be restored within a matter of days, following restoration for rail traffic.	11
13. COLLATERAL DAMAGE:	13
a. Insignificant	14
b. Population Casualties*	15
Target Area Adjacent Area Target Area Adjacent Area	16
Mil Civ Mil Civ Mil Civ Mil Civ	17
0 0 0 250 0 0 0 3	18
*Casualties estimated under daylight alert conditions.	19
14. RECOMMENDED WEAPONS AND SORTIES:	20
a. In order to achieve the desired damage criterion weapons/ sorties required over target:	21 22
WEAPON SNAKEYE or SNAKEYE or BOMB or BOMB	23 24
1170/98 238/26 945/105 154/26	25
b. Weapons/sorties operationally required to achieve "over target" requirement shown above:	26 27
1404/117 286/32 1134/126 185/31	28
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE CRITERION:	29 30
85%	30
and the second of the second o	
SF AET.	
A-B-BQ-3 Tab BQ to Annex B to (Revised by 17th Note to Holders) Appendix A	

TAB BR TO ANNEX B TO APPENDIX A

TARGET NO. 18.9

TOP LCRET

A-B-BR-1

Tab BR to Annex B to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET MINERAL	
1. TARGET NUMBER: 18.9	1
2. BE NUMBER: 0617-0388	2
3. IDENTIFICATION: Xom Ca Trang Hwy Br ov Rao Cai	
DATE OF INFORMATION: March 1965 DATE OF TIS: 1: A	
5. LOCATIONA	5
VN Route 12, 23 miles north of the Laos/VN border. 6. DESCRIPTION: Orthogram 105 48 55E, WE 864656 Located on the Laos/VN border.	6 7
6. DESCRIPTION: Oriented N/S with overall dimensions of half-thru truss bridge. The decking is probably wood and the just north of this target, 2 span steel truss, 190 x 16 ft.	11 12
7. SIGNIFICANCE: The bridge has been recently constructed to replace a ford crossing 1 mile north of the village of Kom Ca Trang. Route 12 serves as a supply route into Laos via the Mu Gia Pass; it is an alternate to National Route 8 and runs from the border to a junction with National Route 1, 29 miles	14
8. TARGET ENVIRONMENT: The target lies in mounting terrain at the border region. The river has high steep banks in this area and has a swift current. Fords in the region are reported as being impassable during the rainy season. Local vegetation is dense forest; this area is unpopulated and uncultivated. The site is near the end of an abandoned rail-visible.	19 20 21 22 23 24 25
9. DEFENSE ENVIRONMENT:	26
a. There are 2 active and five inactive AAA sites in the immediate vicinity of the target, amounting to 8 light (14.5 mm-37 mm) AAA positions occupied and 22 positions unoccupied. (DOI: 10 Feb 65)	27 28 29 30
b. No installations or support camps within 600 ft of target, other than 2 AAA positions immediately north of bridge.	31 32 33
c. No known radar is located in the immediate area. The nearest, a KNIFEREST-B early warning site, is at Do Khe, about 10 NM northwest. EW coverage is also provided by Dong Hoi (KNIFEREST-B and SCR-270) and by Vinh Son (SCR-270 and RUS-2).	34 35 36 37 38
10. DAMAGE OBJECTIVE: Destruction of at least one span.	39
ll. ETPECT ON NVN Should this bridge be interdicted, ehicular movement between North Vietnam and southern Laos ould be significantly reduced.	40 41 42
12. RECUPERABILITY: Although steep bank conditions exist ere, a previously reported fording site appears to still be vailable for use approximately 500' west of the bridge. This build undoubtedly be utilized immediately upon interdiction of	43

A-B-BR-2
Tab BR to
Annex B to
(Revised by 7th Note to Holders)

Appendix A

T. MORE TOP	
the bridge at slightly less than present load capacity. This location is somewhat isolated from bridging stocks but necessary repair material from nearby abandoned rail facilities may permit recovery of an estimated 90 foot span loss within a week. With the relatively high bridge clearance, use of local timber may take nearly as long to effect bridge recovery due to height of intermediate pier construction involved.	1 2 3 3 4 6 6 7
iconia-value de la	8
BECOME DED WEAPONS AND SORTIFS.	9
The state of the s	10
250# 500# 750# 1000# Weapons Syakeye or BOMB or BOMB or BOMB	
150/13 290/32 200/33 130/43	12
b. Weapons/sorties operationally required to achieve	1
100 Mg	15
A party region in the party of	16

(Revised by 7th Note to Holders)

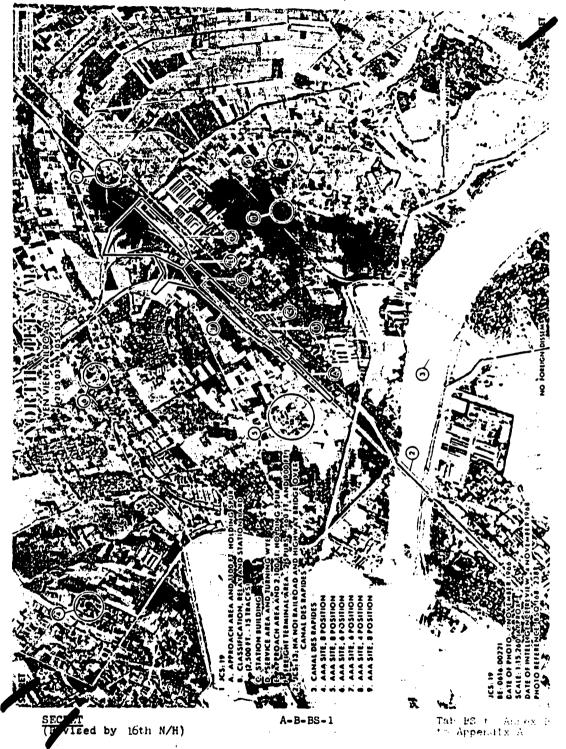
266

Tab BR to Annex B to Appendix A



TAB BS TO ANNEX B TO APPENDIX A

TARGET NO. 19



The second secon	
The state of the s	
TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER! 19	1
2.7 B. E. NUMBER: 616-0221	2
AND THE RESERVE OF THE PROPERTY OF THE PROPERT	
3. DENTIFICATION: Yen Vien Railroad Yard	3
THE CONTRACT OF THE CONTRACT O	
4. DATE OF INFORMATION: 17 October 1968	4
DATE OF TISD: 31 January 1969	5
DATE OF PHOTOGRAPHY: 4 November 1966	6
DATE OF INTELLIGENCE REVIEW: 4 November 1968	7
The same of the sa	•
5. LOCATION: 21-05-03N 105-55-12E, located 5.5 NM NE of Ha Not	8
at the junction of the rail lines going to Dong Dang, Lao Cai, and Ha Noi	9
div. (via Gia Lam), asset asset agreement and a second	10
스마리 (1997) - 사람들은 <mark>교육하는</mark> 기업으로 기업으로 기업으로 기업으로 기업으로 기업으로 기업으로 기업으로	10
6. DESCRIPTION: The yard, oriented NE/SW, is 5200' long and 1400'	11
wide overall. A single meter gauge track from Gia Lam enters at the S	12
end and 2 dual gauge tracks enter at the N end, 1 from Lao Cai, to the	13
NW and the other from Dong Dang, to the NE. The yard consists of 3	14
major functional areas. The yard proper is 2500' long and 15 tracks wide,	15
with a passenger station centered along its E side. The locomotive service	16
area is on the N and consists of a turning wye and coaling tracks. The	17
freight terminal area, to the NE, contains a pair of spur tracks. The number	18
of dual gauge tracks within the yard is not known.	19
and the second s	19
7. SIGNIFICANCE: This yard includes the largest classification facility	20
in North Vietnam and is the southern terminal of the dual gauge capability	21
from Communist China, via Dong Dang. It controls traffic from Dong	22
Dang and Lao Cai, as well as Thai Nguyên. In the event of interdiction of	23
the line between the yard and Ha Noi, the yard could be utilized as a	24
transshipment terminal to a greater extent than it probably is now.	25
	23
8. TARGET ENVIRONMENT: Target is located 5.5 NM NE of Ha	26
Not at the "Y" in the rail line from Ha Not; one branch continues to the	27
NE to Dong Dang, the other turns to the NW to Lao Cai. The elevation	28
is about 15' above sea level. Target is situated on the flat Red River	
Delta Plain; the area is intensively cultivated in wetland rice. A small	29 30
industrial complex is located just E of the target. Several small villages	
are located within 1 NM of the target. The Ha Noi - Vinh Ninh Road	31
parallels the rail line and passes immediately to the SE of the target.	32
parameter and the parameter in the SE of the target,	33
9. DEFENSE ENVIRONMENT:	2.4
76 BEFENSE ENVIRONMENT	34
The target is within the SAM envelope.	
The second of th	35
the control of the co	
b. AAA activity has been identified within 3NM of the target,	36
The state of the s	
or may be the work of the one of the original life is anticipated.	37
The first of the state of the s	

LANGE ROLL SERVICE STATE OF THE SERVICE SERVIC

Appendix A



13. COLI	LATERAL DA	MAGE:	· ,	:	•			1
a. In	significant						•	2
b.	Populati	on	4 ************************************		Car	ualties	4	3
	4.4	graphic and the second	·` ·				-	,
Ta	rget Area	Adjacent	Area Ta	rget A	rea	Adjac	ent Area	4
M	iil Civ	Mil	CIVM	i1 ·	Civ	Mil	Civ	5
	0	0	800 0		0	0	. 8	6
*Casualties er	stimated unde	r dayligh	t alert condit	ions.				7
	hysical collat	eral dama	ige would occ	us to :	ware	houses,	rolling	8
cars are in th	e vard at any	one time	ed one or two	o rocor	notiv	es and	40 to 60	9
	- ,	one time,	•				•	10
14. RECO	MMENDED 1	WEAPONS	AND SORTI	ES:				11
T delineated for	his target is	comprise	d cf 6 areas,	2 of v	hich	have b	een	12
delineated for for each area.	To show the	e ellert r	weapons and	sortic	e ha	ve been	computed	13
prescribed, to	otal weapone	entore re	edaring to sci	uteve t	he d	amage 1	level	14
								15
required over) In order to	achieve .	a damage lev	el of l	2%,	weapon	s/sorties	16
. cdatted DAGL	twidet:							17
	250#	500#	5004					
Weapons:			500# YE of BOMB		750	•		18
	DIVICE IE	I SHAKE	IE OF BOMB	OF	BO	<u>MB</u>		19
Area B	32/3	20/2	35/4		24/	'		30
(1625' x 225')					~4,	•		20
								21
Area F (1140' x 170')	19/2	12/1	25/3		17/	3		22
Total:	51/5	32/3	60/7		41/	7		23
(2) Weapons/s	orties on	erationally re	quire	1 "04	er tare	 1	2.4
requirements	shown above:	- -		7	- 01	arg		24 25
								63
Total:	62/5	39/4	77./8		58/	8		26



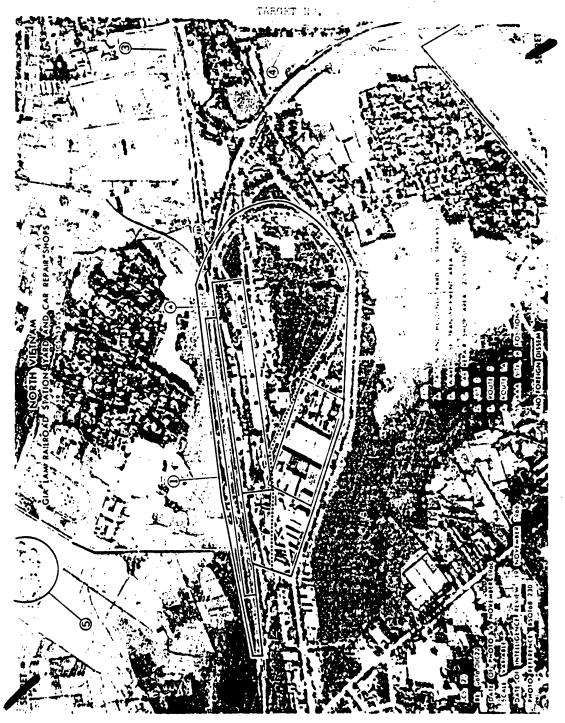
A-H-BS-4

(Revised by 16th Note to Holders)

Tab BC to Annex B to Appendix A



TAB BT TO ANHEX B TO APPENDIX A



DECOMP TVIDer by lete NZH) A-1:-1:T-1



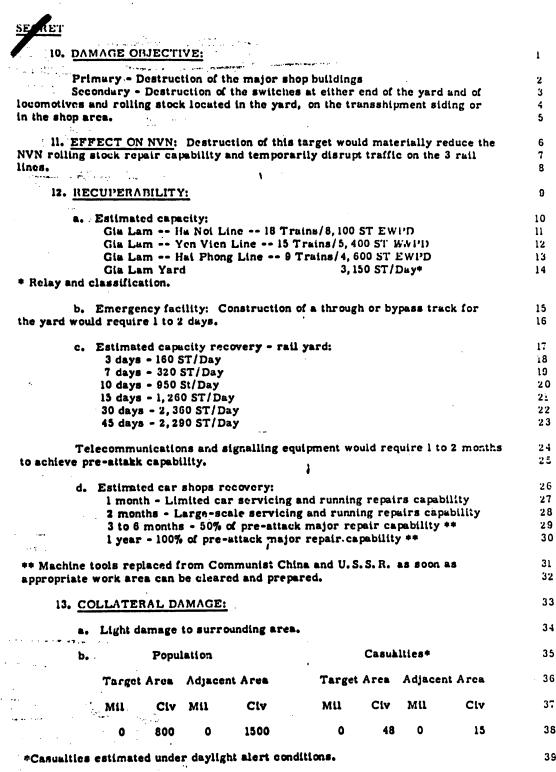
1. TARGET NUMBER: 20	1
2. 13. E. NUMBER: 618-0022	2
3. IDENTIFICATION: Gia Lam Railroad Station, Yard, and Car Repair	3 4
4. DATE OF INFORMATION: 17 October 1968	5
DATE OF TISD: 23 January 1969	6
DATE OF PHOTOGRAPHY: 4 November 1966	7
DATE OF INTELLIGENCE REVIEW: 19 November 1968	. 8
5. LOCATION: 21-02-59N 105-53-05E, located 2 NM ENE of Ha Not, at the	9
junction of the Ha Not - Dong Dang rail line and the line to Hai Phong.	10
6. DESCRIPTION: This facility, oriented ENE/WSW is 4400' long and 1225'	11
wide, overall. A single meter gauge track, from Ha Not, enters the yard's WSW end.	12
Two meter gauge tracks, from Yen Vien and Hai Phong, enter at the ENE end.	13
The station yard is 3000' long and 6 tracks wide. Twelve warehouses are located on the S side of the yard, served by a single track. The car repair shop area is S of	14
the warehouse area and is reached via a long, curved access track. This area is	15
2030' long, 520' wide, and contains about 165,000 sq. ft. of floor space. There are	16 17
3 locomotive/railroad car repair shops consisting of f major shop buildings and many	18
smaller ones, as well as two large transfer tables.	19
7. SIGNIFICANCE: The shops comprise the major ruilroad rolling stock	20
repair facility in North Vietnam and are capable of major repairs and overhauls. The	21
associated yard controls through traffic between Ha Noi and either Yen Vien or	22.
Hai Phong; it also has a minor classification capability.	23
8. TARGET ENVIRONMENT: Target, about 15' above sea level, located on	24
extensive, flat, rice-cultivated, E bank flood plain of NW-SE oriented Red River;	25
Ha Noi is 2.3 NM WSW of target site on the W bank of Red River. Plain in	26
immediate vicinity of target area has an airfield and several villages within about	27
U.7 NM of site, and is bordered on W by Red River 1.0 NM away, on N and E by	28
meandering, E-W oriented tributary Canal Des Rapides, 1.2 and 2.7 NM away.	29
Mein RR line E from Ha Noi approaches target across Red River and mid-stream	30
saland, crosses Cunal Des Rapides NE of target.	31
9. <u>DEFENSE ENVIRONMENT</u> :	32
a. The target is within the SAM envelope.	33
b. AAA activity has been identified within 3 NM of the target.	34
a LINC and amall arms fine is antisimted	26



A-B-BT-2

(Revised by 16th Note to Holders)

Tab BT to Annex B to Appendix A





A-B-BT-3

(Revised by 16th Note to Holders)

Tab BT to Annex B to Appendix A



14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 3 arcus, all of which have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve the desired damage level (12% Damage

(1) In order to achieve the desired damage level (12% Damage to RR Yard; 30% Damage To Transshipment Area and Repair Shops), weapons/sorties required over target;

	机热力 经收益 化异氯甲基二甲基				
WEAPONS .	250# Snakeye	500# Snakeye	500# BOMB	750 BOMB	9 .0
Area A (3000'x 13m)	38/3	23/3	57/6	39/7	11
Area B (2270'x 330)	151/13	78/9	116/13	68/11	:2
Area C (1200'x 510)	145/12	66/7	84/9	42/7	13
TOTAL	334/28	167/19	257/28	149/25	14
		•			

(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:

401 400		202121		
401/33	201/22	309/34	179/30	•

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%

SECKET

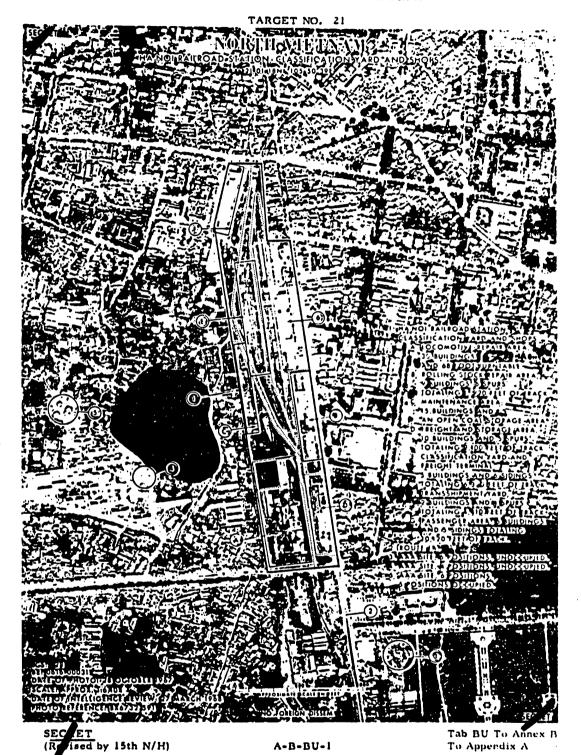
€ A-B-BT-4

(Revised by. 16th Note to Holders)

Tab By to Annex B to Appendix A



TAB BU TO ANNEX B TO APPENDIX A





TARGET INFORMATION AND STRIKE DATA	1
1. TARGET NUMBER: 21	2
2. BE NUMBER: 616-0031	3
3. IDENTIFICATION: Ha Noi Railroad Station, Classification Yard, and Shops	4 5
4. DATE OF INFORMATION: 13 March 1968 DATE OF TIS: 18 March 1968 DATE OF PHOTOGRAPHY: 28 October 1967 DATE OF INTELLIGENCE REVIEW: 27 March 1968	6 7 8 9
5. LOCATION: 21-01-18N 105-50-39E. Located in the southwestern part of the city.	10 11
6. DESCRIPTION: Oriented north/south. Overall dimensions are 3,350 feet long by 620 feet wide. The target has 12,900 feet of track available for freight train classification or terminal operation. It contains a locomotive repair area (A) with 30 buildings and a 68 foot turntable; a rolling stock repair area (B) with 9 buildings and 6 spurs, totaling 1,920 feet of track; a maintenance area (C) with 15 buildings and an open coal storage area; a freight and storage area (D) with 10 buildings and 5 spurs, totaling 2,100 feet of track; a classification yard and freight terminal (E) with 5 buildings and 6 sidings, totaling 6,390 feet of track; a transshipment yard (F) with 2 buildings and 4 spurs, totaling 4,410 feet of track; and a passenger area (G) with 6 buildings and 5 sidings, totaling 10,120 feet of track.	12 134 14 16 17 18 19 20 21 22 23
7. SIGNIFICANCE: This target contains the largest (meter gage) locomotive repair facility in North Vietnam. In addition, it has some capacity to repair (meter gage) rolling stock. The yard is the focal point of the entire railroad system in North Vietnam.	25 26 27 28 29
8. TARGET ENVIRONMENT: The target, about 16 feet above sea level, is in the western part of Ha Noi. The built-up area extends from target about 1.5 NM NNW to the large Ho Tay (lake), 1.3 NM NE and E to the broad, braided Red River, and about 1.3 NM to the S and 0.7 NM to the W. The city is on a broad, flat plain cultivated in wetland rice. A park is located at the SE corner of the target.	30 31 32 33 34 35
9. DEFENSE ENVIRONMENT:	37
a. The target is within the SAM envelope.	38
b. AAA activity has been identified within 3 NM of the target.	39 40
c. HMG and small arms fire is anticipated.	41
10. DAMAGE OBJECTIVE:	42
Primary - Destruction of the locomotive repair area at the south end of the yard and the car repair shops on the east side of the yard.	44 44 43



NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 15th Note to Helders) A=B=BH=2

"AB Buto Tunex & to Popurd'x /



Secondary - Destruction of locomotives and cars. Destruction of the maintenance area, the freight and storage area, the transshipment area, and the passenger area.	1 2 3
Damage level is 12% and 30% for supporting structures.	4
11. EFFECT ON NVN: Destruction of this target would reduce NVN capacity to repair locomotives and rolling stock and place a larger burden on the other repair centers - Lao Cai, Hai Phong, Lang Dang, Gia Lam, and Thai Nguyen. The destruction of the classification and terminal functions within the yard would seriously disrupt rail traffic south from Ha Noi.	5 6 7 8 9 10
12. RECUPERABILITY:	11
a. Estimated maximum line capacity:	12
(Ha Noi - Yen Vien): TD 9 (EWPD) ST/Day 3,200 (Ha Noi - Hai Phong): TD 9 (EWPD) ST/Day 4,600 (Ha Noi - Vinh): TD 9 (EWPD) ST/Day 2,200	13 14 15
TOTAL TD 27 (EWPD) 10,000 ST/Day	16
b. Emergency facility: Temporary through track - "shoo fly": 3 days - 450 ST/Day 7 days - 900 ST/Day	17 18 19 20
c. Estimated capacity: 10 days - 2,700 ST/Day 15 days - 3,600 ST/Day 30 days - 6,700 ST/Day 45 days - 8,500 ST/Day	21 22 23 24
Servicing facilities would require an estimated 3 months to achieve pre-attack operational capability. Repair facilities would require 9 to 12 months for reconstruction and importation of machinery to replace that destroyed. Telecommunications and signalling equipment would require 4 months to achieve pre-attack capability. (Note: The estimated recuperability figures are based upon the interdiction and recuperability of selected major facilities and structures on the North Vietnamese railroad system.)	25 26 27 28 29 31 33
13. COLLATERAL DAMAGE:	34
a. Minor damage to surrounding area.	35
b. Population Casualties*	36
Target Area Adjacent Area Target Area Adjacent Area	37
Wil Cia Wil Cia Wil Cia Mil Cia	38
0 900 0 4500 0 54 0 45	40
 Casulaties estimated under daylight alert conditions. 	41



#21

(Revised by 15th Note to Holders)
A-H-RU-3

2

TAB Byto AnnexB to Appendix A



14. RECOMMENDED WEAPONS AND SORTIES:						
This target, with the largest locomotive repair facility in North Vistnam, is comprised of seven areas. Five sub-areas have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:						
weapons/s	(1) In orde	r to achieve a over target:		9		
WEAPON		500# Snakeye	750# BOMB	11 12		
Area A	(300 x 800)	29/3	22/4	13		
Area B-1	(150 x 700)	12/1	19/3	14		
Area C-1	(100 x 700)	9/1	18/3	15		
Area E-1*	(150 x 900)	9/1	15/3	16		
Area F-1	(100 x 550)	10/1	14/2	17		
Totals:	•	69/7	88/15	18		
(* The de	sired damage le	vel for Area	E-1 is 12%)	19		
"over tar	(2) Weapons/ get ⁿ requiremen	sorties opera ts shown above	tionally required to achieve	20 21		
Totals: 83/9 106/18						
weapons/s	(3) In order orties required	to achieve a over target:	damage level of 70%,	23 24		
WEAPON		500# Snakeye	750# BOMB	25 26		
Area A		98/11	75/12	27		
Area B-1		41/5	64/11	28		
Area C-1		31/3	61/10	29		
Area E-1#		9/1	15/3	30		
Area F-1	,	34/4	48/8	31		
Totals		213/24	263/44	32		
(* The de	sired damage le	vel for Area	E-1 1s 12%)	33		
"over tar	(4) Weapons/ get" requiremen	sorties opera ts shown above	tionally required to achieve	34 3 5		
Totals:		256/29	315/53	36		
15. P	ROBABILITY OF A	CHIEVING DESI	RED DAMAGE LEVEL: 50%	37		
			•			
	the second of the second secon		•	·		
SEC AT	•	3	#21			

(Revined by 15th Note to Holdern)

TAB Buto
Annex B to
Appendix A

TAB BY TO ANNEX B TO APPENDIX κ





1. TARGET NUMBER: 21.1	1
2. B. E. NUMBER: 617-0027	2
3. IDENTIFICATION: Vinh Railroad Station Yard and Shop	3
4. DATE OF INFORMATION: 22 October 1968	4
DATE OF TISD: 23 January 1969	5
DATE OF PHOTOGRAPHY: 9 May 1965	6
DATE OF INTELLIGENCE REVIEW: 4 November 1968	7
5. LOCATION: 18-41-18N 105-40-05E, located 2 NM NW of Vinh,	8
it is the southern terminal station on the Ha Noi-Vinh rail line,	9
	•
6. DESCRIPTION: The yard, oriented N/S, is 5,500' long and '00'	16
wide, overall. The yard is served by single meter gauge track. The	11
yard proper is 2,250' long and 5 tracks wide, with a station building	: 2
and a water tower on the E side. Two car service buildings are located	13
on a spur just NW of the yard proper and a turning wye and locomotive coaling facility are located farther N, to the W side of the main track.	14
South of the yard, the track branches E into the Vinh port area and S,	: 5
a short distance, to the point beyond which the track has been abandoned.	٠٠
point boyond which the track has been abandoned.	17
7. SIGNIFICANCE: The southern terminal of the Ha Noi-Vinh rail	. ಜ
line, it is the largest rail facility S of Thanh Hose. Its principal functions	19
would be equipment servicing and transshipment of material to highways	20
ior movement (sether C	2:
8. TARGET ENVIRONMENT: Target is about 1.2 NM N of Vinh and	
9 NM SW of the mouth of the Song Cu River at an elevation of approximately	22
the Name NE am man a man and the table to the same the sa	24
Disidus fields agains the last agains to	25 26
minus to about 1 000f about 1 1 6 asset	27
•	
9. DEFENSE ENVIRONMENT:	28
a. The target is within the SAM envelope.	29
b. AAA has been identified within 3NM of the target.	30
c. HMG and small arms fire is anticipated.	31
10 DAMACE OR IECTRUE.	-
	32
the transfer man and tanamatan at the second	33
and the service snops.	34
	35 36
	- 0

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

(Revised by 16th Note to Holders)

Tab BV to Annex 8 13 Appendix A

SP KF. I								
11. EFF	ECT ON N	VN: Des	truction	of this			e	
entire burde	n of equip	ment ser	vicing N	to That	yaru w	ould au	It the	1
(200 miles a	way). Fro	eight ter	minal on	nratio:	m nould	have to	O Ha Noi	2
up among se	:veral sma	ll Siging	s. distri	buted or	Ver ma.			3
mue, que to	the inaded	uacy of i	ndividuai	laltern	ata faci	14+4	This is	• • 5
turn would i	Stace au eq	ditional l	burden o	n highw	av and	waterwa	V routes	6
for southwa	rd moveme	ent of ma	terial.		-,		, routes	7
12. REC	UPERABIL	ITY:						8
a. E	stimated c	apacity	•					9
н	a Noi-Vinh	line		9 T	rains/3	500 ST	EWPD	:0
v	inh Yard			9,8	00 ST/I	Day≄		11
b. E	mergency	facility:	Constru	ction of	one th	rough o	r bynass	12
track (for li	mited traff	lic through	gh to the	Vinh po	ort area) would	require	13
l or 2 days.						•	•	14
c. E	stimated c	apacity r	covery	:				15
. 3	days - 490	ST/day						16
.7	days - 980	ST/day						17
10	days - 2,9	40 ST/da	ıy					16
15	days - 3,9	25 ST/da	Ly.					i 9
30	days - 7,3	55 ST/da	y					26
45	days - 9,3	20 ST/da	y					2;
Servicing	facilities	would re	quire 1 t	o 2 moi	nths to	achieve	pre-attack	22
operational :	capability,	Teleco	nmunica	tion and	d signal	ling equ	ioment	23
would requir	re 2 month:	s to achie	eve pre-	attack c	apabili	tv. (No	te: The	24
estimated re	cuperabili	ty figure	s are ba	sed on t	the inte	rdiction	and	. 25
recuperabili	ty of selec	ted majo	r faciliti	es and	structu	res on t	he North	26
Vietnamese	railroad s	ystem.)						27
13. <u>COL</u> 1	LATERAL	DAMAGE	<u>:</u> :					28
a. N	one							29
ъ.	Populatio	n		Cas	ualties:	••		30
Tar	get Area	Adjaces	nt Area	Target	Area	Adjace	nt Area	31
мі	l Civ	Mil	Civ	Mil	Civ	Mil	Civ	32
0	350	0	0	0	21	0	0	33
htti Cirin 1 s t =		سيفسيرا	1 mart 1 - 4 c				٠	
AT CHRUMILION		under	ayught	mert co	ndition	8,		34
Terminal a	ind relay.							35



A-B-BV-3

(Revised by 16th Note to Holders)

Tan : V 10 Annex B to Appendix A



14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 5 areas, 2 of which have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(i) In order to achieve the desired damage level (; 2% damage to RR yard; 30% damage to shop area), weapons/sortics required over target;

Weapons:	250# SNAKEYE	500# or <u>SNAKEYE</u> or	500# BOMB or	750# BOMB	
Area C (110'x4	2') 8/1	5/1	17/2	10/2	
Area D (1660'x	1/71(106	11/1	33/4	23/4	. >
Total:	25/2	.6/2	50/6	33/6	14

(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:

30/3 20/2 66/7 16/7

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%



A-15-18V-4

(Revised by lett. Note to Rolders)

A Comment





TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 21.11	•
2. B. E. NUMBER: 616-0409	.:
3. IDENTIFICATION: That Nguyen Railroad Station Yards and Snop.	;
4. DATE OF INFORMATION: 16 October 1968	••
DATE OF TISD: 24 January 1969	•
DATE OF PHOTOGRAPHY: 23 December 1965	t,
DATE OF INTELLIGENCE REVIEW: 13 November 1966	7
5. LOCATION: 21-33-41N 105-51-03E, located 2.5 NM S of That Squyen and 32 NM N of Ha Not.	*
6. DESCRIPTION: The ran facility, oriented NW/SE, is 13, 300	. :
and 1, 900° wide, overall. A pair of dual gauge (meter and standard) to ake	:
enter the SE end of the yard. One is from Kinh No and one is stone dept	
A single meter gauge track extends NW from the yard, and to resonates 7	, •
NM to the NW. The installation contains 3 major areas. At the NW end,	
here is the turning wye (A) and its associated accomplive coming tracks.	
immediately to the SE is the car service area (B) with 4 spurs. The yard	4.7
proper (C) is 22 tracks wide with 8 holding tracks (averaging 1, 450' long).	ı 7
10 classification tracks (averaging 2, 150! long), by thru-access tracks,	•
end a station track. Four reception sidings (D) are located immediately	
SE of the classification tracks.	200
7. SIGNIFICANCE: This you'd conscious as the classification and	٤.
equipment service facility for trains serving the That Nguyen from	.: .*
and Steel Complex. There is no through traffic through the word.	٠. ن
All terminal activities probably take place within the from and steel	
complex. Trains between Dong Dang and Yen Vien, via the standard	25
gauge, alternate route, are probably relayed nere.	21.
8, TARGET ENVIRONMENT: Target, about .00' above sea level,	<i>2</i> 7
is about 2.0 NM S of Thai Nguyen. Rolling, carte ated plains bounded	26
by wooded hills extend 3.7 NM NE, 5.4 NM SW, and about 5.0 NM NW	200
from target. Rolling plains contain many closely spaced hitlocks,	ω.
generally less than 60° higher than adjacent values bottoms. Flat,	٠.
cultivated flood plains of SE-flowing Song Cau extend SE of target for	52
more than 10 NM. Song Cau 1.0 NM NE of target. Large industrial	, ,
complex on SE edge of target.	54
9. DEFENSE ENVIRONMENT:	,5
a. The target is within the SAM envelope.	16
b. AAA activity has been identified within 3 NM of the target.	5.7
. HMG and small arms fire is anticipated.	38
10. DAMAGE OBJECTIVE:	341 -
Primary - Destruction of the turning wye, car servicing are of	
and the switches at each end of the yard and between the classification and reception tracks.	4.5
SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGR	A DTG
A-N-BVn-2	1.5
(Revised by 16th Note to Holders), Asnex 5	141

Secondary - Destruction of the tracks, locomotives, and realing stock within the yard. 11. EFFECT ON NVN: Destruction of this yard would disrupt operations of the adjacent iron and steel complex. However, recuperation of destroyed yard facilities is likely to be more rapid than recuperation of destroyed facilities within the complex itself. Operation of the standard gauge, alternate route between Dong Dang and Yen Vien, through Kep and Kinh No, would be hampered by destruction of the locomotive servicing facility here. 10 12. RECUPERABILITY: a. Estimated capacity: Thai Nguyen - Kep line (std. gauge) - 9 Trains/4,700 ST EWPD That Nguyen - Kinh No line (dual gauge) - 11 Trains/5,800 . . ST EWPD : 5 Thai Nguyen Yard - 11,000 ST/Day b. Emergency facility: Since trains do not operate through the 10 yard, no emergency bypass track would be attempted; capacity recovery and recuperation of equipment servicing facilities would be the first step. c. Estimated capacity recovery: 20 3 days - 550 ST/Day Э. 7 days - 1,100 ST/Day 2: 10 days - 3,300 ST/Day 23 15 days - 4,400 ST/Day 30 days - 8,250 ST/Day 45 days - 10,450 ST/Day Servicing facilities would require 1 to 2 months to achieve pre-attack operational capability. Telecommunications and signature 27 equipment would require 2 months to achieve pre-attack capability. 28 29 13. COLLATERAL DAMAGE: 3.7 a. Insignificant 31 Casuaittes? Population ъ. Adjacent Area Target Area Adjacent Area Target Area Mil C.v Mil Civ Mil Civ Mil

SECRET

700

A-B-BV4-3

*Casualties estimated under daylight alert conditions.

(Revised by 16th Note to Holders)

mmax 2 to Abremaix A

: 4

15



14. RECOMMENDED WEAPONS AND SORTIES:

•	ed. Weapons	and sorties hav	e been comput	which have been ed for each area.	2 3 4		
To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:							
sorties rec	(1) In order quired over to		required dama	ge level weapons/	<i>i,</i> 7		
	250#	500#	500#	750#	8		
Weapon:	SNAKEYE C	T SNAKEYE OF	BOMB or	BOMB	9		
Area B-1	31/3	16/2	33/4	20/3	10		
(640' × 18	•				4.4		
Damage le	vel 30%				12		
Area C	201/17	121/13	144/16	99/17	1.3		
(4,000' x	685')				14		
Damage L	evel 12%	•			15		
Area D	47/4	29/3	65/7	45/8	, 6		
(3, 350' x		-,,,	• • • • • • • • • • • • • • • • • • • •	, .	i 7		
Damage L	•				18		
Total:	279/24	166/18	242/27	164/28	. 4		
	(2) Weapon	s/Sorties opera	tionally requir	ed to achieve	20		
"over targ		ents shown abov			2.		
Total:	335/28	200/22	291/32	197/33	22		
15. P	PROBABILITY	OF ACHIEVING	G DESIRED DA	MAGE LEVEL:	23		



A-B-BVa-4

(Revised by 16th Note to Holders)

Tab PVs to Arriex B to Appendix A

ANNEX C TO APPENDIX A

CATEGORY C

MILITARY INSTALLATIONS

TOP CRET

A-C-1

Annex C to Appendix A

TOP SCRET





TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 22	1
2. <u>BE NUMBER:</u> 616-0488	2
3. IDENTIFICATION: Xuan Mai Army Barracks SSW	3
4. DATE OF INFORMATION: 14 July 1966	4
DATE OF TIS: 5 August 1966	5
DATE OF PHOTOGRAPHY: 7 November 1965	6
DATE OF INTELLIGENCE REVIEW: 2 April 1966	7
5. <u>LOCATION</u> : 20-53-15N 105-34-55E, UTM WJ 602101	8
6. DESCRIPTION: This installation is spread over a wide area and is	9
pisected by the Song Day. Initially there were approximately 400 buildings in	10
he complex; however, many have been and are in the process of being	11
lismantied. Identified in the remaining buildings are approximately 53	12
parracks-type structures, 71 storage/support buildings, 6 administrative-type	13
ouildings, 4 ammunition storage buildings and numerous other structures of	14
niscellaneous functions. The barracks-type buildings are in groups to which	15
various service schools have been assigned, i.e.: Intelligence, Engineer,	16
Signal, etc. There are athletic fields and training areas scattered throughout	17
the area. The troop capacity of this installation is estimated at approximately	18
5, 300.	19
7. SIGNIFICANCE: This site was once the headquarters of the 338th	20
Infantry Brigade; however, it is believed that only elements of this unit	21
remain in this area. Reportedly, this installation is the site of a special	22
insurgency training center for large infiltration groups being deployed to	23
support VC and PL operations.	24
8. TARGET ENVIRONMENT: The camp is situated on Route 6 about	25
25 NM SW of Ha Noi ir rolling lowland at the base of a mountain range.	26
Numerous rice fields and small farming villages are in the area.	27
Millie Lora Lice Heige and aller fathing Amelia and it and another	
9. DEFENSE ENVIRONMENT:	28
a. Rine SAM sites are identified within SA-2 missile range (17.5 NM)	29
a. The SAM sites are identified within SALE intended 18-30 NM	30
of this target, and 16 additional sites have been identified 18-30 NM distant.	31
b. Identified AAA activity in this area includes 5 active sites containi	ng 32
40 occupied 57mm/85mm revetments and 14 inactive sites (95 unoccupied	33
37mm revetments and 8 unoccupied 57mm/85mm revetments). Five of	34
these sites are in the immediate vicinity of the target. (See JCS Target	3 5
Study apportand photography.) In addition, there are 11 kitus	16
approximately 3 NM dus north in the Hoa Muc ares. These sites comprise	e: 37
32 occupied and 54 unoccupied 57mm/85mm revelments. (DOI: 7 Nov 65.	. 38
3 Mar 66) Additional defenses now associated with the extensive Ha Noi	39
air defense complex can be deployed to this area within hours.	40
TIL Garage Combier cen de cobiolog to time and manuel	



A-C-A-2

(Revised by 9th Note to Holders)

c. Intense HMG target area.	and small	arms	lire is an	nticip	ited thro	ugha	out the	1 2
10. DAMAGE OBJECT structural damage to ba casualties to personnel.	rracks and	admin	istration	build				3 4 5
11. EFFECT ON NVN: Damage to this installation would affect the overall military capability of North Vietnam, interrupt training activities and close military support to VC/PL activities.								
12. <u>RECUPERABILITY</u> : With a destruction level of 30 per cent it should take about five days to bring this installation up to normal operations. There is ample space for field billeting and temporary storage accommodations. Replacement of personnel and supplies could be accomplished within 36 hours.								
13. COLLATERAL	DAMAGE:							13
a. Insignificant								14
b. Pop	ulation			C	sualtie	s +		15
Target Area	Adjacent	Area	Targ	et Arc	a Adj	scent	Area	16
Mil Civ	Mil	Civ	Mil	Civ	Mil		Civ	17
8400 0	4100	400	. 504	o	41		4	18
+Casualties	estimated u	nder	laylight s	alert (onditio	ns.		19
14. RECOMMENDE	D WEAPON	SAND	SORTIE	:S:				20
This is a lar Eleven areas (with application. Weapo To show the effort a weapons/sorties re-	7 sub-areas ns and sort : equired to) have ies ha achiev	been de ve been d e the dai	lineat compu mage	ed for w ited for level pr	eapo each	ns afea.	21 22 23 24 25
(1) in order required over to		a danı	age leve	l of 3	0%, wea	pons	/sortles	26 27
WEAPON	250# SNAKEYI	E or	250# BOMB	or	500# BOM B	or	750# BOMB	
Area A-1 (200x250)	19/1		41/3		21/2		13/2	28
Area B-1 (350x800)	63/5		93/8		48/5		28/5	29
Area B-2 (400x900)	78/7		109/9		56/6		33/6	30
Area C-1 (200x450)	26/4		52/4		27/3		16/3	31
Area C-2 (200x550)	29/2		59/5		31/3		18/3	32
Area C-3 (450x700)	70/6		96/8		49/5		29/5	33



A-C-A-3
(Revised by 9th Note to Holders)



•					
WEAPON	250# Snakeye	250# or BOMB or	500# BOMB or	75C# BOMB	
Area F (150x300)	17/2	41/3	21/2	13/2	1
Area H-1 (300x600)	44/4	70/6	36/4	21/3	2
Area H-2 (500x1500)	149/12	193/16	98/11	58/10	3
Area J-1 (200x650)	33/3	67/6	34/4	20/3	4
Area K (100x350)	16/1	50/4	50/6	50/8	5
Area L (50x35C)	20/2	70/6	70/9	70/12	6
Area M (750x800)	126/10	150/13	77/9	45/7	7
Area N (100x250)	12/1	38/3	20/2	12/2	8
Area P-1 (200x300)	21/2	43/4	22/3	13/2	9
Totals	723/60	1172/98	660/73	439/73	10
(2) Weapons target" requires	-	ationally require	ed to achieve '	'over	11 12
	882/74	1429/120	805/90	535/90	13
(3) In order required over to		damage level of	70%, weapons	/sorties	14 15
WEAPON	250# Snakeye	250# or BOMB or	500# BOMB or	750# BOMB	
Area A-1	65/5	138/11	71/8	44/8	16
Area B-1	212/18	314/26	162/18	95/16	17
Area B-2	263/22	368/31	189/21	112/19	18
Area C-1	88/7	176/15	91/10	54/9	19
Area C-2	98/8	199/16	109/12	61/10	20
Area C-3	236/20	324/27	166/18	98/16	21
Area F	58/5	139/12	71/8	44/7	22
Area H-1	149/12	236/20	122/13	71/12	23
Area H-2	503/42	652/54	331/37	196/33	24
Area J-1	112/9	226/19	115/13	68/11	25



A-C-A-4
(Revised by 9th Note to Holders)



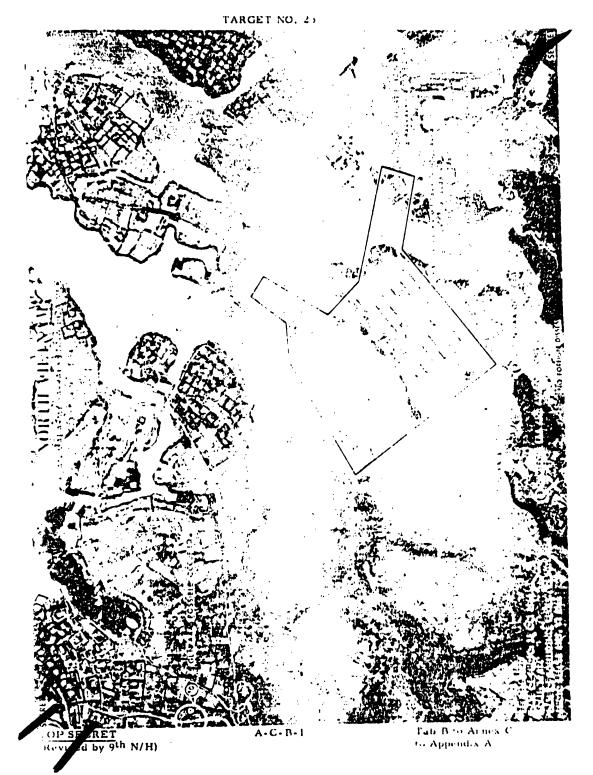
	250#	250#	50 0#	750#	
VEAPON	SNAKEYE	or BOMB or	BOMB or	BOMB	
Area K	54/5	169/14	169/19	169/28	1
Area L	68/6	236/20	236/26	236/39	. 2
Area M	425/35	507/42	260/29	152/25	3
Area N	41/3	128/11	68/8	41/7	4
Area P-1	71/6	145/12	75/8	44/8	5
Totals	2443/203	3957/330	2235/248	1485/248	6
	eapons/sorties oper		red to achieve	"over	7 8
	2979/249	4826/403	2726/303	1811/302	9
15. PROBAB	ILITY OF ACHIEVIN	G DESIRED D	AMAGE LEVE	<u>L</u> : 50%	10

TOP ECRET

A-C-A-5

(Revised by 9th Note to Holders)

TAB B TO ANNEX C TO APPENDIX A



TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 23	1
2. BE NUMBER: 616-0277	2
3. IDENTIFICATION: Xuan Mai Army Barracks NNW, Hea Mun	•
4. DATE OF INFORMATION: 14 July 1966	4
DATE OF TIS: 23 July 1966	
DATE OF PHOTOGRAPHY: 15 October 1965 DATE OF INTELLIGENCE REVIEW: 28 November 1965	6 7
5. LOCATION: 20-57-04N 105-34-30E, UTM WJ 594162, I NM W -6	4 9
6. DESCRIPTION: This installation comprises a large barracks area,	10
a small barracks area, and an ammunition storage site The large barracks	
area contains 9 barracks, 1 administration building, 3 mess halls, 7	12
possible vehicle storage buildings, 7 support structures, and 14 buildings	1.3
which are probably storage and/or unoccupied barracks. The ammunition	14
storage consists of 4 large and 2 small revetted structures. The small	15
barracks area contains 4 barracks buildings.	16
7. SIGNIFICANCE: This installation covers approximately 400 acres	17
and troop capacity is estimated at 1200 or two barrations. This camp,	18
together with Xuan Mai Army Barracks SSW (JCS Tgt #22 - BE 616-0489',	19
is reportedly the site of the special training center for infiltrators desained	20
to support PL/VC activities. The heavy concentration of AAA training sites	21
indicates emphasis on artillery training at this installation.	22
8. TARGET ENVIRONMENT: This camp is located or a rolling lowland	23
area in the Song Con valley. There are mountains to the west and south and	2 4
small agricultural villages are located to the northeast and east if the	25
target area.	26
9. DEFENSE ENVIRONMENT:	27
a. Twelve SAM sites have been confirmed within SA-2 missile range	29
(17.5 NM) of this facility and 14 sites are between 18 and 30 NM distant.	29
b. Identified AAA activity in this general area includes 4 active site	# 3C
containing 32 occupied 57mm/85mm revetments. There are also 7	31
inactive sites (54 unoccupied 57mm/85mm revetments). Additional	32
defenses are located 3 NM due south in the general Xuan Mararca and	• 3
comprise 5 active sites containing 40 occupied 57mm/35mm revelments	• 44
and 14 inactive sites (95 unoccupied 37mm revelments and 8 sections and	۶٤
57mm/85mm revetments). (DOI: 3 March 1966)	36
c. Trenches and numerous AW sites surround the target area and	37
intense machine gun/small arms fire would probably be encountered.	15



A-C-B-2

(Revised by 9th Note to Holders)

10. DAMAGE OB stored ammunition. administration build accompanying person Damage level is 30 person to the store of the st	Damage crit ings, and am nnol casualtic	erion is a	strüctür storage	al dama building	ge to b gs with	arracks,	د غ 4 5
11. EFFECT ON disrupt training acti activities.	NVN: Destr vities with a	uction of resultant	this inst	tallation on in su	would	temperarily of VC/PL	6 7 8
12. RECUPERAL training installation limited training ope full effectiveness co Resupply might be of elsewhere.	would be ino rations could not be re	perable fi be resun ached unt	rom 48 t ned in a il new e	o 72 ho relative quipmes	urs. A sly sho nt could	ilthough rt time, i be obtained.	9 10 11 12 13
13. COLLATER	AL DAMAGE	•					15
a. Insignifi	cant.						16
ъ.	Population			Casu	alties*	•	17
Target /	Area Adjace	nt Area	Targe	t Area	Adjac	ent Area	18
Mil	Civ Mil	Civ	Mil	Clv	Mil	Civ	19
720	0 480	0	43	0	5	O	20
•	ties estimate	d under d	aylight :	alert co	ndition	5.	21
	NDED WEAP						22
	rget is compr 1 and B-2) ha orties have be to achieve the	ised of th we been deen composed to the compos	iree are delineate uted for a level p	as. Tw ed for w each ar rescrib	eapons ea. T	o show the	23 24 25 26 27
(1) In o	order to achiever target:	eve a dam	age leve	of 30%	o, wear	pons/surties	28 29
WEAPON	250# Snakeye	250 or BO		500# BOM	B or	750# BOMB	
Area A (600x1100)	134/11	165	/14	85/1	0	50/8	30
Area B (100x950)	22/2	64	1/6	64/	7	64/11	31
Totals	156/13	229	/20	149/	17	114/19	32
(2) We	apons/sortic	s operation	onally r	equired	to achi	ieve "over	33 34
-	190/16		9/24	182/	21	139/24	35



A-C-B-3

(Revised by 9th Note to Holders)

(3) In order to achieve a damage level of 70%, weapons, so required over target:

WEAPOI		250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB		
Area A		453/38		558/47		288/32		169 '29		3
Area B		75/6		217/18		217/25		217,37		4
Totals		528/44		775/65		505/57		386/65		5
t	(4) Weap arget ^{it} requi	ons/sorties rement sho			y req	uired to	a chie	146 "0761	•	6 7
		644/54		945/79		616/69		471/79		8
15.	PROBABILIT	Y OF ACH	EVI	NG DES		DAMAG	E LE	<u>VEL: 50</u>	%	9

TOP SECRET

A-C-B-4

(Revised by 9th Note to Holders)



TAB C TO ANNEX C TO APPENDIX A

TARGET NO. 24





、2月から1700年で、170回機の成果を196回機関の1800年に

II. EFFECT ON	NVN:	Will re	d.ar. N	North 1	Victor	ns sc mil	• tar	or completely	:
support and cont of the NVN.	roi oi	the VC.	Redi	mes t	he ove	rall mil	litara	y capatalla y	
1/ RECUEPUAL	titru.	*****							3
probably be only	24-10	hours t	O TISI	NO OF	35	m:11 000 0			
concentration of	troop	s and ma	rerial	are	in the	Dong He	orar.	••	h
. 13. COLLATERA	L DAMAC	<u>ε</u> :							7
a. None-									я
6.	Popula	TLion				Cancal	الم الم		9
Target	Arca	Ad jacc	nt Arc	·a	Targe	i Arca	ر كA	no su Aroa	ı O
Mil	Civ	Mil	Civ	,	Mr 1	Civ	Mil	<i>t</i> .	
1750	0	250	O)	105	0	3	()	(2)
*Casua	lties o	estimated	d unde	r day	light	alert co	nd i t i	ons.	13
14. RECOMMEND	ED WEAF	ONS AND	SORTI	ES:					14
This t	arect c	omplex		1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	l of I	teribi		Weapons and	
sorties have	peen c	computed	for c	ach a	ca. 1	In show	the e	dfor.	15
requ ired to a sorties requ	achieve	the dar	mage 1	evel r	rescr	ibca. : -	tal w	ж арап ч	17
•									∙ ধ
(1) In	order	Lo achi	eve a	damage	leve	L of 30%	, Wild	ipans Succice	
	OVEL C	Rec	in the second				•		20
LIP A DOM		250#	-	250#	4 A. S.	.500#		7 >0#	
		NAKEYE :	0r.	BOMB	OF Z	BOMB	OF	BOMB	
Area A (100x500)		T8/1	-	32/4		27/3		16/3	2,
Area B (50x250)		10/13	4.2	3577	2.00	19/2		11/2	22.
Area C		21/2				22/2		13/2	1. 23
Totals		49/4	ei	20	30				
	1.0			A CENT	in and	68/7		40,7	. 24
target" r	apons/s	orties (perat	ionall	y sequ	ired to	achi	eve . Have r	2
				ELL.					
	4	60/5	1	161/1	3	83/9	<u> </u>	49/8	27
(3) 17	order	to-achie	eve a	damago	level	of 70%	, vea	pons/yor dies	. 28
required	over ta	rget:	.*	. •					? 9
I TARAN		50#		250#		500#		7:10#	
WEAPON	S	NAKEYE	or	BOMB	or	BOMB	or	BOMB	
Area A		61/5		175/1	5	91/10		54/9	41
Area B		34/3		125/1	0	64/7		37/6	:
Arca C		71/6		145/1	2	74/8		44/7	3.4
Totals	1	66/14		445/3	7	229/25		135/22	3.4
(4) West argos are	ipons/s quirem	orties o ent show	perat m abo	ionali ve:	y requ	ired to	achi	eve Mover	3
	2	02/17		543/4	5	279/31		16 (7 28	
15. PROBABILIT	Y OF A	CILLEVING	DESI	RED DA	MACIE I	EVEL:	507.		37
TOP SCRET		•	A-C-	-C-3				Tab C to	
	/-							Annex C to	

(Revised by 7th Note to Holders)



TAB D TO ANNEX C TO APPENDIX A

TARGET NO. 🚊



301



TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 25	
]
2. <u>BE NUMBERS</u> : 616-0371 616-0103	3
3. <u>IDENTIFICATION</u> : Son La Army Barracks, Hq Military Region NW, and Supply Depot.	1
4. DATE OF INFORMATION: 7 May 1965	4
DATE OF TIS: 16 June 1965 DATE OF PHOTOGRAPHY: 27 January 1965	7
DATE OF INTEGLIGENCE REVIEW: 5 March 1965	Ş
5. <u>LOCATION</u> : 21-19-50N, 103-54-32E, UTM UJ 868590, 10 NM of Na San Airfield on Route 6.	1:1
6. <u>DESCRIPTION</u> : This target is centered at the junction of Route 6 and an improved road running N at Son La (UJ 868590) and trends generally N/S over a wide area. Sout of the route junction _ located barracks areas primarily, as well as an ammo storage area and the probable location of	12 13 h 14 15
an artillery school. To the north is a large area of administrative-type buildings and storage warehouses. Within the total complex is	3 7
The total hometra is a propante prison and a weather ctation	n 15 • 19
six or more under construction. Buildings trained to	227
- During the Cart of the Cartes of the Court of the Cartes	21 22 -
buildings, 10 meso halis, a weather station, an amphithmeter	~ ~
444 100 OF MORE Storagecystationed buildings of magicus	, 29 25 26
sizes. There is some underground FOL storage.	. 26
7. SIGNIFICANCE: This area is reported to contain the Headquarters, Military Region Northwest, major elements and possibly the headquarters of the 335th Infantry Brigade, and possibly an artillery school. Brigade supply depot and MK Northwest	27 28 29 30
northwest supply denter may be located here.	31
8. TARGET ENVIRONMENT. Tarret complex lies along Route 6 in partially wooded, partially cultivated hill country about 10 NM SW of the Black River. Numerous small native farming villages are nearby along the banks of the Nam Lai which flows through the area, crossing Route 6 near the center of the target.	301010000000000000000000000000000000000
9. <u>DEFENSE ENVIRONMENT</u> :	35
a. In the target area there are 3 light (14.5mm-37mm) AAA sites, containing 14 positions, 16 (possibly 411 14) of them occupied. At Na San, 10 NM SE are 2 occupied light 4-position sites, and 3 unoccupied sites of 12 positions as well as an unoccupied possible medium site of 8 positions.	377412344
b. There is an EW radar at Son La and the target is also in range of the height finder and EW radar at Ban Xom Lom and EW radar at Dien Bien Phu.	45 46 47
c. Ground defenses include up to 3 battalions of infantry with supporting AW units and possibly artiliery in up to battalion strength.	46 49

(Revised by 6th Note to Holders - 25 March 1966)



-	ECRET						
of b 335t	arracks h Brigad	and su ie. Da	mage level	, including 30 per	rthwest and g ammo stor cent.	destruction rage, of the	1 2 3 4
PL a	nd to PA	VN uni	<u>V</u> : Will red rigade at D ts in Laos. h Brigade.	Will red	nce over-al	support to 11 military	5 6 7 8
in f	rom 42 t	o 78 h	TY: Supply robably begoours. Replacties and migsobeen designed.	cement of	ning on a 1	imited basis	9 10 11 12 13
13	. COLLAT	ERAL D	AMAGE: Inst	gnificant	•		14
14	. RECOMM	ENDED 1	WEAPONS AND	SORTIES:			15
d	ach area amage:le ver the	vel protarget	large targe apons and so show the eff escribed, to is also sho	orties have ort required that weapon	been compred to achi	uted for	16 17 18 19 20
	weapon		res redutred	over tare	30 5:		22
WEAP	ON:	250# Snakeyi	250 BOM	<u> </u>	500# <u>30MB</u> or	750# BOMB	_
Area	A	"7c/6∑	108	/9 7	56/6	33/6	23
Area	119				and the same of the same of		
V	В	45/4	7. 2.4. 65	/5	33/4	20/3	
Area		45/4 38/3	65 77	/5. :: /6	33/4 39/4:	-20/3 23/4	24
Area Area		45/4 ,38/3 ,71/6	65 77 103	/5 /6 /9	33/4 39/4 53/6	23/4	24 25
Area Area Area	C D	45/4 738/3 71/6 98/8 1	65 - 77 - 2103	/5 /6 /9 /12	33/4 39/4 53/6 73/8		24 25 26
Area Area	C D	45/4 38/3 71/6 98/8 26/2	65 77 7103 7142 142	/5 /6 /9 - 19 /12 /4	33/4 39/4 53/6 1 73/8	23/4	24 25 26 27
Area Area Area	C D	45/4 38/3 71/6 98/8 26/2 73/6	65 77 103 142 52	/12: /1======	33/4 39/4 53/6 73/8 27/3 21/3	23/4	24 25 26
Area Area Area	C D	45/4 38/3 71/6 98/8 26/2 73/6 81/7	142	/12 /4 /9	33/4 39/4 53/6 73/8 27/3 4 54/6 3 29/14	23/4 31/5 43/7 16/3	24 25 26 27 28 29
Area Area Area Area	C D R R R R R R R R R R R R R R R R R R	45/4 38/3 71/6 98/8 26/2 73/6 81/7 92/8	142 52 104 27, 129	/12 /4 /9	33/4 39/4 53/6 73/8 27/3 54/6 s 29/14	23/4 31/5 43/7 16/3 32/5 129/22	24 25 26 27 28 29
Area Area Area Area	C D B B C D D D D D D D D D D D D D D D	T. T. Sandar	142 52 104 27, 129	/12: /9: /13: /13: /2: /2:	33/4 39/4 53/6 73/8 27/3 29/14 29/14 57/16	23/4 31/5 43/7 16/3 32/5 129/22 157/26	24 25 26 27 28 29 30 31
Area Area Area Area	C D B C C C C C C C C C C C C C C C C C	92/8	142 52 104 7 129 157	/12 /9 /11 /11 /11 /11 /11	33/4 39/4 53/6 73/8 27/3 54/6 29/14 57/16 34/15 34/4	23/4 31/5 43/7 16/3 32/5 129/22 157/26 134/22	24 25 26 27 28 29 30 31
Area Area Area Area Area	C R R R R R R R R R R R R R R R R R R R	92/8 i 88/7	142 52 104 129 24 157	/12: /4=	34/4	23/4 31/5 43/7 16/3 32/5 129/22 157/26 134/22 20/3	24 25 26 27 28 29 30 31 32 33
Area Area Area	C D K B B B B B B B B B B B B B B B B B B	92/8 88/7 45/4	142 52 104 7 129 24 157 134	/12: /3: /11: /11: /11: /5: /7		23/4 31/5 43/7 16/3 32/5 129/22 157/26 134/22	24 25 26 27 28 29 30 31

TOP	CRET

Area N

Area J

Area P

98/8

42/3

38/3

A-C-D-3

149, 12

6:16

60/5

76/8

35/4

31/3

Tab D to Annex C to Appendix A

45/8

21/3

18/3

36

37

			7	2	28	33	ŀ
7	0	₽⊿	5	CR		70	-
-	_	70	~~	~.	9	Ŧ.	
•						_	•

WR.	4 POW - 250#				Sperie service and	
	SNAKE	C POP TO BOMP	500#	750		
E STATE AT	01.0		or BOMB	or BOMB		
	110/0	2 240/12	72/8		· Comme	
	a R 1 117/1			The state of the s	oradi 19 18 japan - Garan T orad	
Are		ははいたからによういしている	80/9	47/8	Salah Sa	
	105/9	130/11	7-94	41/0	NOTE OF THE PARTY OF THE	
Are	8-T. 47/4		57/7	39/6		
		72/6	37/4			20.00
	55/5	95/8		22/4	4	
Area	35/3		49/5	29/5		
	The second secon	58/5	30/3	And the second	5	
	78/6			18/3	6:	
Area		30/0	50/6	30/5		
	60/5	115/101	59/7 -	- 14:4-	7	
Sec. 10	TALS 1596/13		27/	35/6	<u> </u>	
The state of the s			1451/161	1029/172		SIL
	"OVER torse	sorties operat	toness	1029/1/2	9	l l
	"over target" r	equirement show	m above.	uired to ach	leve 10	1
	1913/159				leve 10 11	l
			1770/197	1255 /000		ŀ
	(3) In order	to achieve a drequired over	, - ,	1255/209	12	l l
	weapons/sortles	required over	tanage level	of 70%		ı
WRADO	000.0		ogr.Rec:	·	13 14	
WEAPOI	SNAKEYE	250# or Bomb	500#	750#	47	1
Area A	· ·	or BOMB of	PAIN	750# BOMB		ļ
3	=30/19	394/30		<u> 201-10</u>		i
Area B	152/12		189/21	112/19	16	į.
Area C		219/18	112/13		15	
urea C	128/10	270/22		68/11	16	i
Area D			132/15	78/13		i
l .	240/20	347/29	170/00		17	İ
Area E	331/27		179/20	105/18	18	
Area F		478/40	246/27	1/15/04		¥ 2
	88/7	175/14		145/24	19	
Area G	246/21		91/10	54/9	20	
A 200 - 11		350/29	182/20		20	•
Area H	273/23	425 /ac		108/18	21	
Area I		435/36	435/48	435/73		
	310/26	528/4	529 /50		58	Ì
Area J	297/25		528/59	528/88	23	
Area K.		452/38	452/50	450 000		
	152/13	167 S53\19	CONTRACTOR OF THE PARTY OF THE	452/75	. 24	120
Area L	155/13		v.115/13	68/11	25	
Anna se		270/23	138/15	· i · · · i · i	دی	
Area M	128/11	233/19		81/13	26	
Area N	·	C 33/19	118/13	71/12	00	
	331/28	502/42	257/29		27	256
Area O	142/12			152/25	28	
Area P		がいていている。	118/13	71/12		
	120/11	203/17	705 A 0		E9	
			-07/12	61/10	30	
7022						
- Contraction of the Contraction						
		A-C-D-4.200C		To the state of th		
***************************************			Tab	D.to		1222
Patt			App	exfC∈to~: endix A	-	
(veal)	sed by 6th Note t	O Holders - a-	ger ja versj ere vog ge	~- A		ţ
		25	march 1966)		
						7 - 2

TOP	ECRET
7	

									•
WEAPON:	250# Snakeye	or	250# BOMB	or	500# 30MB	or	750# BOMB		
Area Q	110/9	1	140/12		72/8		42/7	1	
Area R	117/10	1	156/13		80/9		47/8	2	
Area S	105/9	3	130/11		67/7		39/6	3	
Area T	47/4		72/6		37/4		22/4	4	
Area U	55/5		95/8		49/5		29/5	5	
Area V	35/3		58/5		30/3		18/3	6	
Area W	78/6		98/8		50/6		30/5	7	
Area X	60/5	נ	115/10		59/7		35/6	8	
TOTALS	1596/133	51	419/203	3	1451/161		1029/172	9	į
(2) over	Weapons/s target" re	crties quire	s opera	tion lown	ally req above:	uire	d to achie	eve 10 11	
	£1913/159-	- 2	950/246	***	1770/197		1255/209	12	
weapor	In order	to act	hieve a red ove	dam er ta	age leve rget:	l of	70%	13 14	
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BONB	or	750# POMB	en e	
Aca A	236/19		394/30	1	189/21		112/19	15	
Area B	152/12		219/18	3	112/13	• •	68/11	16	3
Area C	128/10		270/22	2	132/15		78/13	17	
Area D	240/20		347/29		179/20		105/18	18	
Area E	331/27		478/40		246/27		145/24	19	
Area F	88/7	1	175/1		91/10		A 54/9	20	
Area G	246/21		350/2		182/20		108/18	21	· [a]
Area H	£ 273/23	No.	435/3				435/73	22	
Area I	310/26		528/4		528/59		528/88	23 =	
Area J	297/25		452/38	3	452/50	क्षिक्यात्वर)	452/75	24	
Area K	152/13		223/19	9	115/13	3	68/11	25	ļ :
Area L	155/13		270/2	3	138/15	j	81/13	26	
Area M	128/11		233/19	9	118/23	3	71/12	27	
Area N	331/28		502/4	2	257/29)	152/25	28	
Area C	142/12		233/19	9	118/13	}	71/12	29.	
Area P	128/11		203/1	7	105/12	2	61/10	30	; Ц
TOP SURET			A-C-D-	4		Ar	nb D to nnex C to opendix A		

(Revised by 6th Note to Holders - 25 March 1966)

TOP SECRET

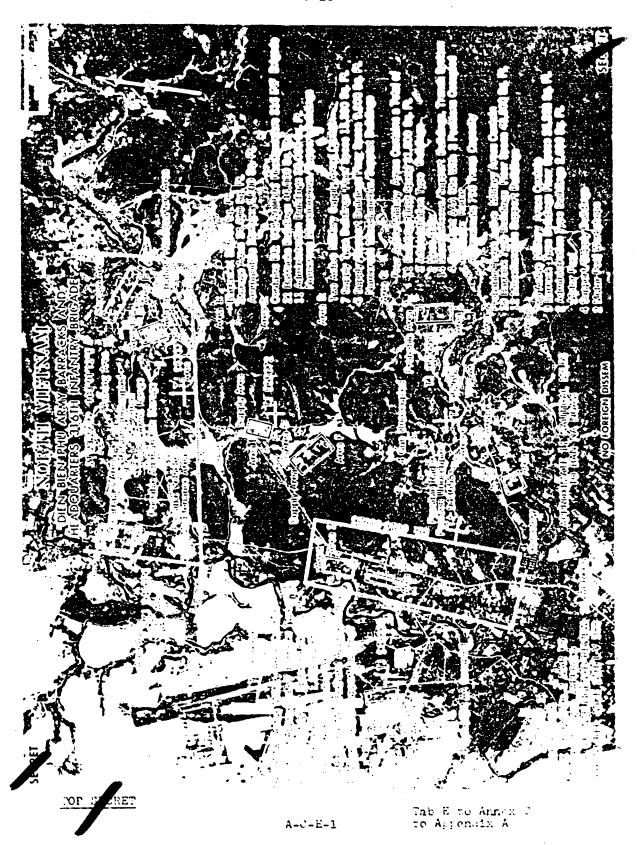
	Training of the Contract of the				
WEAPON:	250# SNAKEYE or	250# BOMB or	500# BOMB = or	750# - BOMB	
Area Q	472/35	370/31	193/21	111/19	1
Area R	394/33	525/44	270/30	158/26	2
Area S	354/3C	438/37	226/25	132/22	3
Area T	159/13	243/20	125/14	74/12	4
Area U	185/15	320/27	165/18	98/16	5
Area V	118/10	196/16	101/11	61/10	6
Area W	263/22	330/28	169/19	101/17	7
Area X	202/17	387/32	199/22	118/20	3
TOTALS	5484/457	8091/674	4845/538	3442/573	9
"о	(4) Weapons/sort ver target" requi	ies operation rement shown	nally requir above:	ed to achieve	10 11
	6690/557	9871/822	5911/656	4199/699	12
15. PR	OBABILITY OF ACHI	EVING DAMAGE	CRITERION:	50%	13

TOP SECRET

A-C-D-5



TABLE TO ADDEX C TO APPENDIX A TARGET NO. 20



A-C-E-1h

Tab E to Annex C to Appendix A

DIEN BIEN PHU ARMY BKS AND HOS



TARGET INFORMATION AND INTERIOR MAN

١.	PARCET	поминя:	19.
----	--------	---------	-----

· ' •	Bir	141	MERCE:	010-0171
	•••			

₹.	FURNITHTCATION:	Diver	15.0	•			
		DICH	13 1 (:11	1714	V timb	Barrack	

OATE OF THEORMATION: DESCRIPTION OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE THEORY OF THE THE THEORY OF THE THE THE THEORY OF THE THEORY OF THE THEORY OF THE THEORY OF THE TH

5. LOCATION: 21-21-55 103-00-51E and 21-23-22N 102-01-12E, 8 UPM'R TH 040636 and TH 043658, extending N and S along Emite 6 9 at Dien Bien Phu.

6. DESCRIPTION: This target is part of the largest milltary complex in northwestern forth Victorm, extending posalbly 8 NM along Route & through an area ; AM wide. The 316th Infantry Brigade Bq to belleved located in three con muthlestory administration buildings focated along the W sine of Route G. 700 yards directly E of SE end of A/F runong. This area contains 11 administration building, 21 barracks and to storage/support type buildings. Approximately one like north is an area oriented E-W which appears to be an administrative support and training area. The total herdquarters complex includes 126 major buildings and several scattered support buildings. The main barracks area extends S along Soute 6 for about 2 NM from Brigade Hq, the major groupless of buildings being directly adjacent to the radio of present company and batticlion who arreary nagazens to the water deposits company and batticlion who arrears are located in the conditions of and W of the main complex. Approximately at BEC decomposition barracks area are two neithformal organic flowing, but the appear to be state forms and not a part of the configuration of a part of the configuration of a part of the configuration of the co Street from builterings, and sie Berenn Zinghout a Starte I. troop supposity in entirected at 10,000.

7. COMMERCANCE: de elquenteurs for the 18 Octavier. Briende und reported clusion unes for unit assistant of port lathet laws. Comment later und for the reservances of the comments of the com

i. Targer ENVIRONMENT: Target is situated along in improves 11-weather road (Route o) through Dien Bien Phu in the valley of the Ham Yom (river) which extends to a width of about 1.5 kM each side of the river. To the E runged wooded hills of a to a height of over 1.000 feet and the 3,000 s. Contour purelleds the targets at a distance of about 1 NM. To the W. across the Num Yom, the slopes rise somewhat more; rodustly. Throughout the valley the land is under extensive quality. Throughout the valley the land is under extensive quality. For and numerous but villages are close to, and sometimes within, the target areas.

TOP ST SRET

-E-2 Tab E to Annex C to Automity A

12

13

14

15

16

18

19

2Ú

30

4;

40.



9. DEFENSE ENVIRONMENT: There are three active light (14.5mm-37mm) AAA sites at Dien Bien Phu containing four occuppied positions each. There are also three inactive sites containing 12 unoccupied positions. (DOI: 13 March 1965) There are four EW radars located in the area. Operational units appear in an active training status and many A/W positions have been prepared. Much A/W and small arms fire can be anticipated.

- 10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is destruction of administration and storage buildings of the 316th Infantry Brigade and destruction of barracks and support areas with accompanying personnel casualties. Damage level is 30%.
- 11. EFFECT ON DRV: Will reduce 316th Brigade capability to support P/L with trained units and/or supplies.
- 12. RECUPERABILITY: Headquarters and supply operations could probably begin functioning on a limited basis in from 24 to 48 hours. Replacement of supplies might take 2 or 3 movement if other areas in northwest MR were also destroyed, depending on national priorities.
 - 13. COLLATERAL DAMAGE: Moderate damage to surrounding area. 21

14. RECOMMENDED WEAPONS AND SORTIES:

This is a large target complex comprised of twenty-one 23 areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.

(1) In order to achieve a damage level of 30%, 28 weapons/sorties required over target: 29

WFAPON	250# SNAKEYE	or	250# ВОМВ	or	500# BOMB	or	750# BOMB		
Area A	73/6		108/9		56/6		33/6		30
Area B	95/8		124/10	, ,	64/7		37/6		31
Area C	55/5		75/6	×	39/4		23/4		32
Area D	76/6		128/11		66/7		39/7		; 33
Area E	40/3		64/5		33/4	-	20/3		34
Area F	82/7	*•***(** `. `	115/10	- ः वर्गम् 	59/7		35/6		35
Area G	57/5		85/7	-	44/5 .		26/4	•	3 6
Area H	64/5	• • • • • • • • • • • • • • • • • • • •	129/11		 76/8:	1,495	53/9		37
Area I	49/4		81/7	300 A	42/5	7.70	25/4		38
Area J	44/4		64/5-		33/4		20/3		39
Area K	33/3		79/7		47/5		32/5		40

TOP SACRET

A-C-E-3

Tab E to Annex C to Appendix A 34

10

11

12

13

TOP	T				
WEAPON	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# <u>BOMB</u>	
Area L	75/6	106/9	54/6	32/5	1
Area M	101/8	137/11	71/8-	42/7	2
Area N	150/13	184/15	95/11	55/9	3
Area O	248/21	278/23	142/16	84/14	4
Area P	188/16	219/18	113/13	66/11	5
Area Q	165/14	199/17	102/11	60/10	· 6
Area R	59/5	78/7	40/4	24/4	7
Area S	50/4	77/6	40/4	23/4	8
Area T	67/6	90/8	47/5	27/5	9
Area U	109/9	137/11	71/8	42/7	10
Totals	1880/157	2557/213	1334/148	788/131	11
ach	(2) Weapons/sor ieve "over targ	ties operati et" requirem	onally requir	red to ove:	12 13
	2293/191	3118/260	1627/180	961/160	14
wea	(3) In order to pons/sorties re	achieve a d quired over	amage level o	of 70%,	15 16
WEAPON	250# SNAKEYE or	250# <u>BOMB</u> or	500# £0MB or	750# BOMB	,
Area A	246/21	364/30	189/31	111/17	17
Area B	320/27	418/35	216/24	125/21	18
Area C	185/15	253/21	132/15	78/13	19
Area D	256/21	431/36	222/24	132/22	20
Area E	135/11	216/18	111/12	68/11	51
Area F	276/23	388/32	198/22	118/20	2 2
Area G	192/16	287/24	148/16	88/15	23
Area H	216/18	435/36	256/28	179/30	511
Area I	165/14	274/23	142/16	85/14	25
Area J	148/12	216/18	111/12	68/11	26
Area K-	-111/9	266/22	,159/18	108/18	27
Area L	253/21	358/30	182/20	108/18	28
Area M	340/28	461/38	239/27	142/24	29
Area N	505/42	619/52	320/36	185/31	30
	and the same		Br		
TOP LCRE	T sed by 6th Note	A-C-E-4	Ai Aj	ab E to nnex C to ppendix A	
,				<i>,</i>	

NAMES OF THE PARTY
TOP CERET

WEAPON	250# SNAKEYE	250# or <u>BOMB</u>	900# or <u>BOMB</u>	750# or <u>BOMB</u>	
Area O	837/70	936/78	478/46	283/47	1
Area P	633/53	738/62	380/42	222/37	2
Area Q	556/46	670/56	344/38	202/34	3
Area R	199/17	263/22	135/15	81/14	4
Area S	169/14	260/22	135/15	78/13	5
Area T	226/19	303/25	159/18	91/15	۶,
Area U	367/31	461/38	240/27	142/24	7
Totals	6335/528	8617/63	4556/506	2686/444	8
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:					9 10
	7726/644	10509/77	5556/610	3275/548	11
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.					12



TOP CRET

A-C-E-5

Tab E to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

TAB G TO ANNEX C TO APPENDIX A



TOP CRET

Tab O to
Annex C to
Appendix A

4;_;

4.

41,

45

criterion is structural damage to administration and storage

facilities with accompanying casualties to personnel....

Damage level is 30 percent.

buildings in the area and destruction of harracks and support

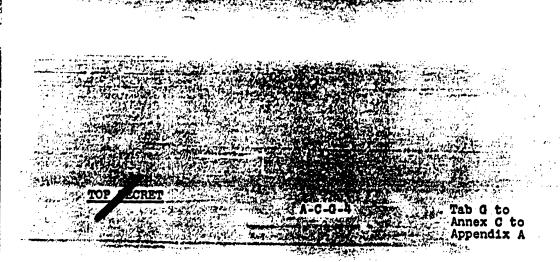


•						
Pa	GTITTIES (enia crainiu	Will reduce suggested whits prime reduce military	991 Ttp 4 90 000		1 2 3 4
re	maining	but there buildings. ys if prior:	: Operations conel could be que would probably t Supply replace ities warrant.	ertered und be sufficient could	er canvas if	56 78 9
			AGE: Insignific			10
	14. REC	OMMENDED WE	APONS AND SORTI	<u>छ</u> :		11
	areas. area. level	Weapons as	arge target comp nd sorties have e effort raquire total weapons/s shown.	been compu	ted for each	12 13 14 15 16
	weat	(1) In order pons/sorties	r to achieve a d required over	lamage leve target:	1 of 30%,	17 18
. •	Weapon	250# SNAKEYE	or BOMB or	500# BOMB or	750# BOMB	
	Area A	57/5	86/7	44/5	26/4	19
	Area B	118/10	154/13	79/9	46/8	20
- ·	Area C	39/3	60/5	31/4	18/3	21
	Area D	55/4	75/6	39/4	23/4	22
-	Area E	68/6	104/8	53/6	31/5	23
	Area P	, ,	84/7	43/5	25/4	24
2		137/11	178/15	91/10	54/9	25
	Area.H	165/13	200/16 1	102/11	60/10	26
	Area I	39/3	69/6	36/4	21/4	27
	Area J	79/7	116/10	60/7	35/6	28
ا ماند دورو	Area K	31/3	57/5	29/3	17/3	29
-	Area L	73/6	110/11	57/6	33/6	30
	Area M	82/7	115/10	59 /7	35/6	31
	Area N	31/3	57/5	29/3	17/3	32
	Totals	1035/86	1465/122	752/84	441/74	33
	ach:	(2) Weapons, Leve "over t	sorties operati arget" requires	onally rec	uired to	34 35
		1262/105	1787/149	917/102	538/90	36



A-C-G-3

OP:	JORE	The second second second	A STATE OF THE PARTY OF THE PAR	has in the last James	Fig. 7.7	
	250					
	Yes	(3) In order	to achieve a required over	damage lev	el of 70%,	1 2
	1	250#	THE PLANT OF THE PARTY OF THE P	all deliver in the second	W. Seoff	· 2
X.W	eapon	SNAKEYE	or BOMB gor	BOMB or	750# 5 BOMB	
(); A	rea A	是193/16	American Acadio addition	149/16	88/14	3
A	rea B	397/33	518/43	268/30	155/26	4
A	rea (34		105/12	61/10	5
A	rea D	# 185/15	252/21	131/15	78/13	6
	rea : E	1	350/29	.178/20	105/17	7
	rea F	2037 27	283/24	145/16	85/14	8
	rea G	, , , , , , , , , , , , , , , , , , ,	600/50	306/34	182/30	9
	rea H	2227	673/56	343/38	202/34	10
	rea I	-5-,	233/19	122/14	71/12	11
	rea J	266/22	390/33	202/23	118/20	12
	rea K		192/16	98/11	58/10	13
	rea L	246/21	370/31	192/21	112/19	14
	rea M	276/23	387/32	199/22	118/20	15
	rea N	105/9	192/16	98/11	58/10	16
· T	otals	3486/29.0	4933/411	2536/282	1491/249	17
	"ov	(4) Weapons/ er target" r	sorties operat: equirement show	ionally red om above:	quired to ach:	leve 18 19
		4253/355	5018/501	3093/344	1818/304	20
15	. PRO	BABILITY OF	ACHIEVING DESI	RED DAMAGE	LEVEL: 50%	21



TARGET NO. 29



TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 29	1
2. <u>BE NUMBER</u> : 616-0273	2
3. IDENTIFICATION: Quang Suo1 Army Barracks NE	3
4. DATE OF INFORMATION: 19 March 1965 DATE OF TIS: 19 April 1965	4 5
5. LOCATION: 20-10-40N/105-54-35E, UTM WH 947313, 2 NM NE of Quang Suoi, 6 NM SW of Ninh Binh.	6 7
6. DESCRIPTION: Oriented primarily N-S on a loose surface, graded, all-weather road and within 2 NM of Route 1. Head-quarters and administration area are on S side of road and troop areas, support and storage areas (including ammo storage) and training areas are north of road. Area includes 20 barracks-type buildings, 5 administration-type buildings, approximately 40 storage/support buildings including 5 dispersed buildings in a fenced area that may be ammo storage. There is a motor pool and numerous small support buildings and ammo shed. Troop capacity may be 2000 - 2500.	8 9 10 11 12 13 14 15 16 17
7. SIGNIFICANCE: Target appears to be a regimental head- quarters, probably containing elements of the 304th Infantry Division. Can control traffic on and defend approaches along Route 1 and railroad from Vinh.	18 19 20 21
8. TARGET ENVIRONMENT: Nestled among low hills. 890 ft. hill 3.7 NM SSE; 500 ft. hill 2.7 NM N and hills to 330 ft. immediately surrounding area. Nearest heavy populated town is Ninh Binh 6 NM NE of Song Day. Elevations are generally karsh (limestone ridges) and caves may be prevalent in the area.	22 23 24 25 26 27
9. <u>DEFENSE EFVIRONMENT</u> :	28
a. Within the target area there is an inactive 57mm/85mm AAA site with 2 unoccupied positions. At Quang Suoi 2 NM SW are 2 inactive 14.5mm/37mm sites with 11 unoccupied positions and 2 inactive 12.7 AW sites with 14 unoccupied positions. Nearest occupied AAA is at Bien Son, 8 NM SW where there are 6 active 14.5mm-37mm sites including 19 occupied positions. Nearest active medium (57mm-85mm) sites are at Nam Dinh, 21 NM NE and Thank Hoa, 25 NM S.	29 30 33 33 33 35 35 35 36
Thanh Hoa and Nam Dinh.	37 38
area south of Nam Dinh and a regiment appears located in the the target area. Heavy AW and small arms fire can be anticipated.	39 40 41 42

TOP SCRET

A-C-H-2

TOP ECRET

10. <u>DAMAGE OBJECTIVE</u> : Personnel casualties. Damage criterion is structural damage to administration, barracks and support buildings including possible ammo storage with accompanying casualties to personnel. Damage level is 30 percent.	1 2 3 4 5
11. EFFECT ON NVN: Thirty percent damage level would reduce of fectiveness of troops in defense of approaches to Hanoi from the south and slow possible deployment into South Vietnam	_
12. RECUPERABILITY: Barracks area could probably be operational within 6 - 12 hours. Destroyed storage could be replaced in 24 - 48 hours, if required.	10 11 12
13. COLLATERAL DAMAGE: Insignificant.	13
14. RECOMMENDED WEAPONS AND SORTIES:	14
a. This is a large target complex comprised of three areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.	15 16 17 18 19
. (1) In order to achieve a damage level of 30% weapons/sortics required over target:	20 21
Weapon: SNAKEYE or BOMB or BOMB or BOMB	•
Area A 51/4 76/6 35/4 21/4	22
Area B 51/4 76/6 235/4 21/3	23
Area C 36/3 57/5 28/3 17/3	24
TOTALS: 138/11209/17 .98/11 59/11	25
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:	_
168/13 255/21 120/13 72/13	28
(3) In order to achieve a damage level of 70% weapons/sorties required over target:	29 30
Weapon: SNAKEYE or BOMB or BOMB or BOMB	
Area A 169/14 240/20 120/13 70/12	31
Area B 169/14 240/20 120/13 70/12	32
Area C 121/10 190/16 94/1 57/9	33
TOTALS: 459/38 670/56 334/33 197/34	34
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:	35 36
560/46 817/68 407/40 . 240/41	37
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.	38



....

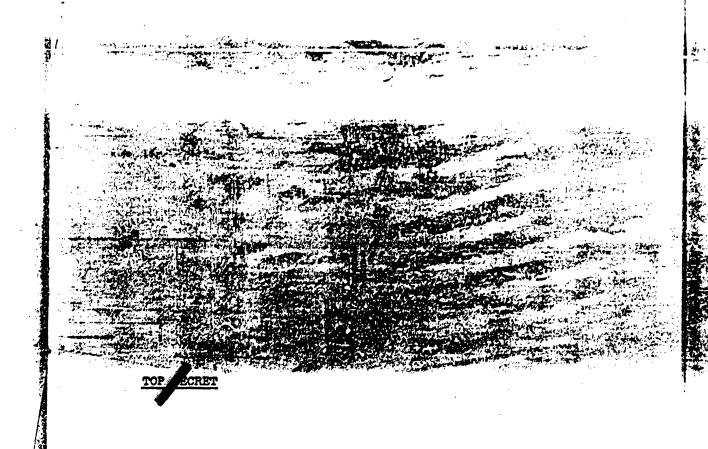


REVISION OF APPENDIX A TO ENCLOSURE A

TO

JCS 2343/383-2

VOLUME II



TARGET NO. 31



to Appendix A

SI RET	· .
TARGET INFORMATION AND STRIKE DATA	
1. TARGET NUMBER: 31 2. BE NUMBER: 616-0490 616-0150	1 2
The first transfer of	3
3. IDENTIFICATION: Ha Dong Army Barracks and Supply Depot 4. DATE OF INFORMATION: 2 December 1966	11
DATE OF TISD: 2 November 1968 DATE OF PHOTOGRAPHY: 2 December 1966 DATE OF INTELLIGENCE REVIEW: 24 July 1968	5678
5. LOCATION: 20-58-51N 105-47-42E, located 0.8 NM NE of Ha Dong,	7
6. DESCRIPTION: This installation covers approximately 150 acres and comprises nine areas located on both sides of the Ha Dong-Ha Noi road. There are some 293 buildings in the complex which include 72 barracks (28 are dormitory-type), 12 administration buildings, 11 mess-nalls, 158 storage/support structures, and 37 miscellaneous support-type buildings. The complex also contains 2 athletic fields, 3 and torium/symnasiums, and a vehicle park. There are approximately 40,000 sq. ft. of storage space and troop capacity is estimated at 12,500.	11 12 13 14 15 16 17 18 19
7. CIGNIFICANCE: The 370th Division has been identified in connection with the complex.	51 50
contrered within one NM radius of the target; at least seven are	20 23 24 25
O. DEFENSE ENVIRONMENT:	ટહ
a. Target is within the SAM envelope.	17
b. AAA has been identified within 3 NM of the target.	28
	29
Asualties. Damage level is 30 percent.	30 31 32
offect on the overall military position of the NVN. However, loss of personnel and stores would probably result in diversion of troops and supplies from other military areas until pre-strike levels could be re-established.	33 34 35 36 37



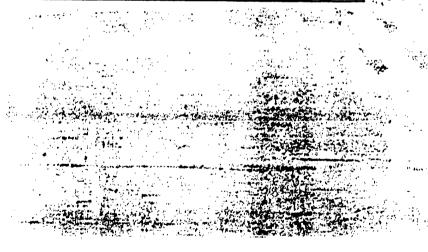
*	•				
sufficient unoccur displaced troops. required to replace personnel. Depot 12 to 24 hours; ut military) for cles Replacement of sur supply depots in a Vietnamese or Comm in Vietnam or sout replaced within 3	pied space and of greater of greater operation continuity debris oplies would be Ha Noi armunist Chines thern Communito 5 days.	de civilian settle military signification of the civilian settle and probably results and effecting endepend upon avaica and original endependes.	cent areas coments to accements to accements to accements to accement would detechnically under function bory (civilial dergency repailability at source, when the coments are a second to accement to accept the acceptance of the accept	ontain commodate be the time y-trained ing within n and irs. other her North	1 2 3 4 5 6 7 8 9 10 11 12 13
13. COLLATERA	• •		A PART OF THE STATE OF THE STAT		14
المراج المحاج	lation	urrounding area.	4. 50		15
t, c., t,		t Area Target	alties*		16
1		Civ we Mil	Marie Control	•	17
10,000	the transfer of	500 600	ا السعاب	Civ	18
•	,	under daylight	مين د نوا واسود د د او او او	5	19
14. RECOMMENT		Charles to the second	arest coudit	lons.	20
			ing in		21
Weapons and sortice effort required to sorties required of	s have been of achieve the	damage level pr	h area. To	show the	22 23 24 25
montten required o	In order to a	achieve a damage	level of 30	%, weapons/	26 27
WEAPON	250# SNAKEYE	SOO# SNAKEYE	500# BOMB	750# BOMB	29 29
Area A (300x200)	21/2	11/1	22/2	13/2	30
Area B (480x200)	15/1	10/1	21/2	13/2	31
Area C (460x230)	16/1	11/1	21/2	13/2	32
Area D (550x180)	15/1	11/1	22/2	14/2	33
Area E (640x290)	45/4	£3/3	37/4	22/4	34 👡
Area F (640x200)	18/2	13/1	25/3	16/3	35
Area G (6/10x510)	41/3	28/3	36/4	23/4	36
Area II (510x430)	53/4	28/3	38/4	23/4	37
Area J (1100x/150)	103/9	53/6	71/8	42/7	38
Total	327/27	188/20	293/31	179/30	39

SF AFT		2 11
	* **: **:	

#31



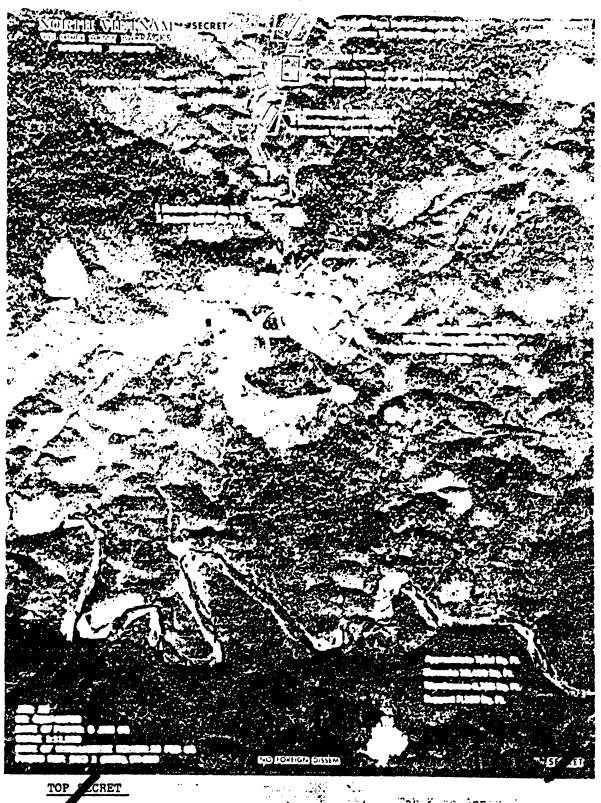
(?) "over target" requ	Weapons/sorties irements shown a	operationally bove:	required to a	chieve	ر د
	393/33	226/25 1	352/39	215/36	3
cortles required o	In order to achi	eve a dmage le	vel of 70%, w	reapons/	14 5
WEAPON	250# SNAKEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	6 7
Area A	69/6	35/4	74/8	44/7	8
Area B	50/4	34/4	69/8	44/7	9
Aren Ç	54/5	37/4	69/8	44/7	10
Area D	50/4	34/4	73/8	47/8	11
Area E	149/12	77/9	125/14	74/2	12
Area F	61/5	42/5	83/9	53/9	13
Area G	137/11	93/10	122/14	78/13	14
Area H	179/15	92/10	128/14	75/13	15
∧rea J	346/29	177/20	237/26	139/23	16
Total	1095/91	621/70	980/109	598/99	17
"over target" requ	Weapons/sorties irements shown a	operationally bove:	required to a	ch1eve	18 19
	1314/110	746/83	1176/131	718/120	20
15. PROBABILI	TY OF ACHIEVING	DESIRED DAMAGE	LEVEL: 50%.	ı	21





TAB K TO ANNEX C TO APPENDIX A

TARGET DE.



A-C-K-1

Tab K to Annex to Appendix

•	
1. TARGET NUMBER: 32	1
2. <u>BE NUMBER</u> : 617-0780	2
3. IDENTIFICATION: Vu Con Army Barracks and Supply Area	3
4. DATE OF INFORMATION: 26 January 1965 DATE OF TIS: 28 May 1965	4 5
5. LOCATION: 16-54-45N/106-49-50E, UTM XD 950706 (Approximately 3/4 NM W of Vu Con and 1 NM NE of Lang Moc. One NM N of Demarcation Line.)	6 7 8
44666 65646 6 5416 -41 t	9 10 11
and several miscellaneous shed-type structures. A central group consists of 4 probable barracks, 6 small support-type buildings and miscellaneous sheds. Just to the south is a group of 7 buildings of which 2 are probable ware-houses and 5 are support-type buildings. Adjacent to the central group on the north are 4 probable warehouse/support-type buildings and 2 probable barracks. West of the road is a small building that may be related to defense positions on ridges to the west.	12 13 14 15 16 17 18 19 20 21
groups of buildings containing a total of 14 buildings plus several sheds. To the east are 3 barracks, 3 ware-	22 23 24 25 26 27
and southern areas are 2 buildings that appear to be a	28 29 30
area in good condition and extensively used. It is apparently	31 32 33 34
centered between the coast and the Laotian border. The village of Vu Con cannot be located in the photography near the vicinity of map coordinates given, but the village of Lang Moc is 1 NM SW. The terrain is mountainous and hilly, heavily wooded with numerous streams. No civilian dwellings	35 36 37 38 39 40 41
9. DEFENSE ENVIRONMENT:	43
DMZ complex, the principal unit being the 270th Infantry Regiment, estimated strength 5000, with Hq at Vinh Linh, approximately 14 NM to the NE. Elements from this regiment may garrison this installation, supported by infiltrators as required. The area is defended by 8 strong	44 45 47 48 49 50

A-C-K-2



. NATH COMPANY	Contract Contractions	The state of the s	D.T. W. WOLF Troubles	Resident with the second of the		
TOP	ECRET				A DESCRIPTION OF THE PARTY OF T	
	THE STATE OF		是一种			·
bu 1m	ildings in placements	50 yards N f across the r the northern and small am	iver from the area // All	e central positions	group of	1 2 3 4
the are	em. No AAA	positions a	re known to	exist in the	ne target	5
	b. A RUS-2	and a SCR-2 and a KNIFE	70 are locat	of noon Wil	h 74mb A4	6
au	11024/1010	OE.				7 8
to per	region of p	ECTIVE: Designation of cent.	ling and acc	Omnanying (9 10 11 12
Vietna among	EFFECT ON Namese infilitrained guestents.	VN: Immediation capalerrillas and	te reduction of the state of th	inflicting	caeus 1 f 1 a a	13 14 15 16
repair locati	a week or . 'S and repla	LITY: If 30% to the state of s	l be needed upplies beca	to effect (mergency	17 18 19 20 21
13.	COLLATERAL	DAMAGE: No	ne.			22
14.	RECOMMENDE	WEAPONS AND	SORTIES:			23
are are lev	as. Weapoi	a large targes and sortice with the effort bed, total we shown.	s have been required to	computed i	for each	24 25 26 27 28
	(1) In a weapons/son	order to achi rties require	leve a damag ed over targ	e level of et:	3 <i>%</i> ,	29 30
		250# SNAKEYE or a	250# BOMB (cor.)	500# BOMB or	750# BOMB	
	Area A	11/1	35/3	18/2	11/2	21

		•		_		
Weapo	ns	250# SNAKEYE	250# or <u>BOMB</u> <u>(</u> cor	500# BOMB or	750# BOMB	•
Area	A	11/1	35/3	18/2	11/2	31
Area	В	81/6	107/9	55/6	32/5	32
Area	C	. 11/1	34/3	18/2	10/2	33
Area	D	13/1	40/3	g 20/2	12/2	34
Area	E	21/2	44/4), 22/2	13/2	35
Area	P	20/2	X 44/4	23/3	13/2	36
Area	0	11/1	35/37	18/2	- 11/2	37
Total	81	7168/14	339/29 1	174/19	102/17	38
over"	tare	ipons/sort: get" requir	les operation rement shown	ally require above:	d to achieve	39 40
			414-35		125/21	41.

A-C-K-3

A-C-K-3
Tab K to
Annex C to
(Revised by 7th Note to Holders)
Appendix A





	(3) I weapons/	sorties req		r.Re c :		5
	Weapon:	250# SNAKEYE o	250# r <u>BOMB</u> or	500# BOMB o	750# r BOMB	
	Area A	37/3	118/10	60/7	37/6	3
	Area B	273/22	360/30	186/20	108/18	4
	Area C	37/3	115/10	60/7	34/6	5
	Area D	44/4	135/11	68/8	40/7	6
	Area E	70/6	148/12	74/8	44/7	7
	Area P	68/6	148/12	78/8	44/7	8
	Area G	37/3	118/10	61/7	37/6	9
	Totals:	566/47	1142/95	587/65	344/57	10
	(4) We "over tar	apons/sorti get" requir	les operationa rement shown a	lly requi:		e 11 12
		692/52	1390/116	716/79	420/70	13
5.	PROBABILI	TY OF ACHIE	VING DESIRED	DAMAGE LE	<u>/EL</u> : 50%	14

TAB L TO ANNEX C TO APPENDIX A





1. TARGET NUMBER: 33	
2. BE NUMBER: 617-0110	1
	2
3. IDENTIFICATION: Dong Hot Army Barracks, WHW	3
4. DATE OF INFORMATION: 4 April 1965 DATE OF TIS:	4 5
5. LOCATION: 17-28-20N/106-35-40E, UTM XE 700334	6
6. DESCRIPTION: The barracks area covers about 1100 acres just west of the abandoned NW railway line 1.4 NM W of Dong Hoi. 0.5 NM east of the tracks at the curve of the road from Dong Hoi to the A/F, Houte 1, is an administration headquarters area totaling 13 buildings, 5 of which are large, multi-storied types. Adjacent are 15 barracks type buildings and other small support-type buildings. South are other administration/support buildings, 4 of which have recently been dismantled. All are bounded by security fences, and individual foxholes and slit trenches are adjacent to the huildings. Buildings E of the railroad total about 53. The barracks area west of the railroad totals approximately 3 buildings in one group of battalion size and other groups that were probably supporting companies. There are approximately 5 probable administration buildings, 49 barracks type, and 30 various types of storage/support buildings. There is a probable hospital near the center of the area.	7890112114561781901223
7 STONTPTCANCE. WALL	
7. SIGNIFICANCE: This area probably contains rear elements of the 325th Infantry Division. It has a troop capacity of approximately 2,500. The 325th is reported to have moved into South Victnam in support of V/C. Total division strength is estimated at 12,500.	24 25 26 27 28
8. TANGET ENVIRONMENT: The barracks area is located in relatively flat, open, heavily cultivated area west of long Hoi. Several civilian populated areas are located near the barracks area. The general Dong Hoi area contains Dong Hoi Airfield, the citadel in town, and several barracks areas around Dong Hoi to house the elements of the 325th infantry Division.	29 30 31 33 33 35
9. DEFENSE ENVIRONMENT:	36
a. Dong Hoi Area AAA defenses include 7 active sites, with 29 light (14.5mm-37mm) AAA positions occupied and 4 positions unoccupied, plus 10 inactive sites (47 positions unoccupied). (DOI: 14 February 1965)	37 38 39 40
b. The 50lat Coastal Security Battalion has been reported resident in the area, as are the Hq and some operational elements of the 325th Infantry Division. AW positions are scattered throughout the various troop areas.	41 42 43 44
c. KNIFEREST-B and SCR-270 carly warning radars are located at 17-30-00N/106-36-00E (XE 699354).	45 46
10. DAMANE ON INCTIVE: Personnel casualties. Damage criterio structural damage to barracks and administration buildings th accompanying casualties to personnel. Damage level is 30%.	10

	a 🗢 🛎		Andrew Carlo		
TOP SECRET		Alt		minger 1994 Maries Mary Marie (1987) was awar ay sangar sangar 1997 (1987)	
11. EFFECT capability a VC/PL action	ma trained	Reduction of classification	assist or pa	y support rticipate in	1 2 3
12. RECUP	erability:	With a destmi	tion level	of 30% 1t	4
back to nor require abou	about 5 da; nal operations: nal seeks (ys for local mion. Repair to effort on an ere in the Dong J	ilitary pers permanent s mergency bes	onnel to get tructures wou	14 6
	TERAL DAMAG			min /2 nours.	9
14. RECOM	ENDED WEAP	ONS AND SORTIES		•	10
each area damage le	. weapons	ge target compl and sorties he the effort red ibed, total wee also shown.	eve been com ruired to ac	puted for hieve the	11 12 13 14 15
(1) weapor	In order	to achieve a di required over t	mage level	of 30%,	16 17
Weapon:	250# Snakeye	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	,
Area A	55/5	75/6	39/4	23/4	18
Area B	40/3	64/5	33/4	20/3	19
Area C	49/4	81/7	42/5	25/4	20
Area D	73/6	108/9	54/6	32/5	21
Area E	59/5	89/7	46/5	27/5	22
Area F	33/3	61/5	32/3	19/3	23
Area G	26/2	49/4	25/3	15/3	24
Area H	28/2	49/4	25/3	15/3	25
Area I	72/6	101/9	52/6	31/5	26
Area J	84/7	110/9	56/6	33/6	27
Area K	132/11	183/15	129/14	74/12	28
Area L	51/4	70/6	36/4	21/3	29
Area M	29/3	54/5	28/3	16/3	30
Area N	77/6	110/9	56/6	33/5	31
Area O	34/3	61/5	32/4	19/3	32
Area P	29/2	49/4	25/3	15/2	33
Area Q	107/9	137/11	71/8	42/7	34
Area R	40/3	64/5	33/4	20/3	35
Area S	34/3	57/5	29/3	17/3	36
Area T	. •	72/6	37/4	22/4	37
Area U	28/2	55/5 06/8	28/3	17/3	38
Area V	67/6	96/8	50/5 ····	29/5 580/08	39

TOP CRET

Totals

1249/104

A-C-L-3

1875/156

Tab L to Annex C to Appendix A

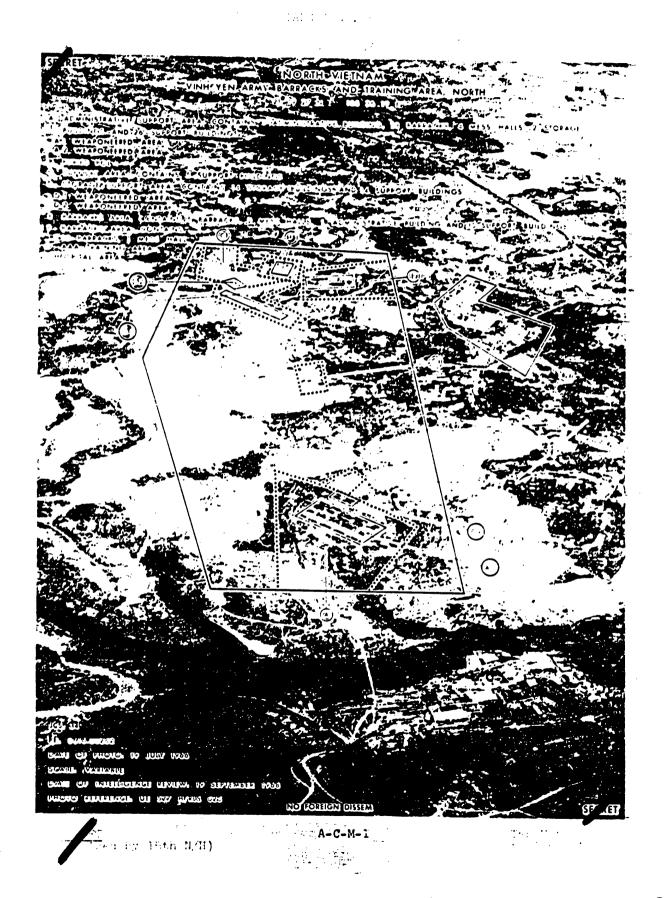
589/98

999/111

40

(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:							
	1525/127	2290/190	1230/136		2		
(3		o achieve a d	•	718/117	3		
		equired over	target:	01 (070,	4 5		
Weapon	250# Snakeye	250# or BOMB or	500# BOMB or	750# BOMB			
Area A	185/15	253/13	131/15	78/13	6		
Area B	135/11	216/18	111/2	67/11	7		
Area C	165/14	273/23	142/16	85/14	8		
Area D	246/21	364/30	182/20	108/18	9		
Area E	199/17	300/25	155/17	91/15	10		
Area F	111/9	205/17	108/12	64/11	11		
Area .G	88/7	165/14	85/9	51/9	12		
Area H	95/8	165/14	85/9	51/9	13		
Area I	243/20	340/28	175/19	105/17	14		
Area J	283/24	370/31	189/21	111/19	15		
Area K	445/37	618/52	4:35/48	249/41	16		
Area L	172/14	232/19	121/13	71/12	17		
Area M	98/8	182/15	95/10	54/9	18		
Area N	259/22	271/31	189/21	111/18	19		
Area O	115/10	205/17	108/12	64/11	20		
Area P	98/8	165/14	85/9	51/9	21		
Area Q	361/30	462/39	239/27	142/24	22		
Area R	135/11	216/18	111/12	68/11	23		
Area S	115/10	192/16	98/11	58/10	24		
Area T	148/12	242/20	125/14	75/12	25		
Area U	95/8	185/15	195/22	58/10	26		
Area V	226/19	323/27	169/19	98/16	27		
TOTALS	4213/351	6313/526	3471/384	1991/332	28		
(4)) Weapons/so	rties operati get" requirem	onally requi	lred to	29 30		
1 5	5130/427	7720/642	4230/468	2430/405	31		
15. PROBA	BILITY OF AC	HIEVING DESIR	ED DAMAGE LI	EVEL: 50%	32		

TAR M TO ARREST O TO ARREST IN A



332



TARGET NUMBER: 34	1
2. B. E. NUMBER: 616-0282	
	2
3. IDENTIFICATION: Vinh Yen Army Barracks and Training Area N	3
4. DATE OF INFORMATION: 19 July 1966	4
DAI'E OF TISD: 8 November 1968	_
DATE OF PHOTOGRAPHY: 19 July 1966	5
DATE OF INTELLIGENCE DEVIEW	. 6
DATE OF INTELLIGENCE REVIEW: 19 September 1968	7
5. LOCATION: 21-19-27E 105-36-19E, 1 NM NE cf Vinh Yen.	8
6. DESCRIPTION: This military complex covers approximately 400 acres	9
The is comprised of 28 barracks, 55 support buildings, 7 mess balls, 2 administration	ive 10
""" and to attrage structures. Part of the storage buildings are noseible	11
venicle support-type lacilities. A possible buried POI, storage area is adjacent to	12
the NW parracks area and 3 probable ammunition storage buildings are located bush	
N of the main storage area. AAA defense sites are evident and the training areas	13
Are well crossed with tracks, indicating both tank and wheeled vehicle training.	14
A hospital is located nearby to the SW of the target. Troop capacity is approximate	15
3,000.	ly 16
	17
7. SIGNIFICANCE: The 202nd Tank Regiment, the only tank regiment in the	18
PAVN OB is carried as being located in this area. Both tanks and 7511-57-21-	
trell-properted AAA) have been reported in this vicinity and a regiment of the 2124L	19
off Div is also located here.	20
	21
8. TARGET ENVIRONMENT: This training area and barracks location is near	22
the nead of the Tonkin Delta NW of Ha Noi. It is drained by several streams which	
frood the paddy fields during the planting season. It is served by the reli time minute	23
NW from Ha Noi and by several supporting military roads. Vinh Yen and other sma	ig 24
farming villages are scattered throughout the area.	
	26
9. DEFENSE ENVIRONMENT:	27
a. The target is within the SAM envelope.	
	28
b. AAA has been identified within 3 NM of the target.	29
c. HMG and small arms fire is anticipated.	
c. Third and small arms itre is anticipated.	30
10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is	31
structural damage to warehouses, support buildings and barracks/administration	32
buildings. Building contents will be destroyed and personnel losses sustained.	
Damage level is 30 percent.	33
	34
11. EFFECT ON NVN: Will reduce NVN capability to support VC/PL with tank	35
units and may result in destruction of critical tanks and/or component parts.	36
12. RECUPERABILITY: Target contains numerous warehouse/storage type	
to the state of th	37
DMAIGMOR IN AGGILLAN IN HAPPACKE. Assuming 30 games 4 games at the contract of	
buildings in addition to barracks. Assuming 30 percent destruction, it is probable	38
that training would be disrupted for from 48 to 72 hours. There is ample room to	38 39
that training would be disrupted for from 48 to 72 hours. There is ample room to bivouse in adjacent areas. Essential supply items would probably be destroyed and	
that training would be disrupted for from 48 to 72 hours. There is ample room to	39

SEGRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

Λ-C-M-2

(Revised by 1905 Note to Holders)

TABM to Annex " to Intundix /

A.	Insi	gnifica:	nt

b	Populat	ion way	The second second	Casualt	les*	
Targe	t Area	Adjace		t Area	Adjace	nt Area
Mil	Civ	MII	Clv Mil	Clv	Mil	Civ
2000	0	1000	200 120		10	

*Casualties estimated under daylight alert conditions.

14. RECOMMENDED WEAPONS AND SORTIES:

This target complex is comprised of seven areas. Four areas (including four sub-areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sortics required over the target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

WEAPON	250# Snakeye	500# or S <u>NAKEYE</u>	or BOMB or	750# BOMB	15 16
Are a Al (4001 × 2001)	24/2	13/1	25/3	15/3	17
Arca A2 (140' x 90')	10/1	6/1	18/2	10/2	18
Area D1 (400' x 90')	15/1	8/1	23/3	14/2	19
Area D2 110' x 90')	10/1	5/1	17/2	10/2	20
Area E (300' x 100')	13/1	7/1	21/2	12/2	21
Area F (150' x 120')	12/1	6/1	18/2	11/2	22
Totals:	84/7	45/6	122/14	72/13	23
(2) W	eapons/sortic	es operationally	required to achiev	e "over target"	24

25

101/8 147/16 87/15 26

(3) In order to achieve a damage level of 70%, weapons/sorties required

#34

(Revised by 15th Note to Holders)

TAB M to Appendix A

27

1 2

3

8

10

11 12

13

14

SEC KET

Weapon	250# Snakeye	500# or <u>Snakeye</u>	or BOMB	750# or <u>BOMB</u>	1 2
Area Al	80/7	41/5	84/9	50/8	3
Area A2	34/3	18/2	58/6	34/6	4
Area DI	48/4	25/3	78/9	46/8	5
Area D2	33/3	17/2	57/6	34/6	6
Area E	44/4	23/3	69/8	40/7	7
Area F	40/3	21/2	59/7	35/6	8
Totals:	279/24	145/17	405/45	239/41	9
requirement	4) Weapons/sort s shown above:	ies operationally	required to ach	ieve "over target"	10 11
	335/28	174/19	486/54	287/48	12
15. PRC	BABILITY OF A	CHIEVING DESIR	ED DAMAGE LI	EVEL: 50%	13

SECRET

#34

TABLET II. 10





1. TARGET HUMBER: 30,	1
## BE NUMBER: 616-0205	2
Facility IDENTIFICATION: Song Tay Military School and Training	3 14
H. DATE OF INFORMATION: 5 January 1968 DATE OF FIGD: 12 November 1968 DATE OF PHOTOGRAPHY: 12 March 1967 DATE OF INTELLIGENCE REVIEW: 20 September 1968	56 7 g
5. LOCATION: 21-06-35N 105-29-12E, located 1.5 NM SW of Son Tay, 1.5 NM NE of Tong A/F, and approximately 20 NM WNW of Ha Noi.	9 10
This installation is a part of the large Son Tay military complex. The 8 major areas comprising this target are interconnected by roads and are surrounded by fields and civilian settlements. The installation contains 85 buildings including 10 harracks, 10 storage buildings (3 revetted), 13 classrooms, 3 administration buildings, 21 support buildings, 3 messhalls, and 17 classroom/support buildings (Area F has 12 barracks removed). A large 6-wing hospital is located just E of the installation and 3 revetted probable ammunition storage buildings are in a fence-secured area adjoining the main storage facilities. A training area is located at the NE end of the facility and AAA revetments, AW sites and trenching are scattered throughout the installation.	11 12 13 14 15 16 17 18 19 20 21 22
7. SIGNIFICANCE: This site reportedly houses 2 artillery regiments and several schools, including armor and signal officer training.	23 24 25
8. TARGET ENVIRONMENT: This installation is located in a re- latively flat and heavily cultivated area. Tong airfield is 1.5 NM OW of the barracks area and an Army school for field artillery training is adjacent to the barracks area.	26 27 28 29
O. DEFENSE ENVIRONMENT:	30
a. The target is within the SAM envelope.	31
b. AAA has been identified within 3 NM of the target.	35
c. HMG and small arms fire is anticipated.	33
10. DAMAGE CBJECTIVE: Personnel casualties. Damage criterion is structural damage to barracks buildings with accompanying casualties to personnel. Damage level is 30 percent.	34 35 36
11. EFFECT ON NVN: Damage to this installation would temporarily disrupt the training of officers of various branches of the service and artillery training, and would probably necessitate some chilting of personnel within the defensive perimeter of Ha Noi. The overall NVN defensive position, however, would not be seriously affected.	37 38 39 40 41
12. RECUPERABILITY: If 30 percent destruction were incurred here, normal operations could be resumed within 5 days, assuming tents and make-shift shelters are used. Replacement of both personnel and supplies would require no more than a week since this encomponent is relatively close to Ha Noi and other military installations and transportation routes are good.	434 45 45 47 48



NO POREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

1-C-N-2

SE	RET

•	34	Marine	,		
13. COLLATERA	AL DAMAGE:				1
a. Incig	gnificant				?
b •	Population		Casualties*		3
Target A	rea Adjacent A	rea Target Ar	rea Adjacer	t Area	14
MII	Civ MIL	Civ Mil	Civ Mil	Civ	5
300	0 75	150 18	0 1	5	٠,
*Canualt	les estimated un	der daylight al	lert condi ti or	ıs.	7
.14. RECOMMENT	DED WEAPONS AND	SORTIES:			8
This lost been delimented for been commuted for the damage level p target are who of	each area. To prescribed, tota	cation. Weapor snow the effort	ns and sorties t required to	have achieve	9 10 11 12 13
(1) In mi	rder to achieve over target:	a damage level	of 30 percent	, weapons/	14 15
WEAPON	250# SNAKEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	16 17
Area B (400x114)	17/1 -	9/1	24/3	14/2	18
Area C (Gloximo)	115/11	23/3	37/4	22/4	19
Area D (660x450)	37/3	26/3	35/4	22/4	20
Area G (820x200)	54/5	28/3	45/4	27/5	21
Totals	153/13	86/10	1/11/16	85/15	55
(2) Weapo	ons/sortles oper uirements shown	ationally requiabove:	ired to achiev	′e	23 24
	184/15	104/12	170/19	102/17	25
(3) In or weapons/sorties re	rder to achieve equired over tar	a damage level get:	of 70 percent	·,	26 27
WEAPON	250# SNAKEYE or	**** T. **	500# BOMB or	750# BOMB	28 29
Area B	55/5	28/3	79/9	46/8	30
Area C	149/12	77/9	125/14	74/12	31
Area D	125/10	85/9	115/13	74/12	32
Area G	182/15	~ 93/10	152/17	89/15	33
Totals	-511/10-	283/31 True	471/53	283/47	3/1
(4) Weape target" requiremen	ons/sortles oper nts shown above:	ationally requi	ired to achiev	e "over	35 36
	614/51	3/10/38	566/63	340/57	37
15. PROBABIL	TTY OF ACHIEVING	DESIRED DAMAGE	E LEVEL: 50%	•	38

S' ARMI

#35

A-C-N-3

(Revised by 15th Note to Holders)

TAR N to

TAB P TO ANDEX C TO APPENDIX A

TARGET NO. 37



A-C-P-1



1 MARARMARRA OF	
1. TARGET NUMBER: 37	1
2. <u>BE NUMBER</u> : 616-0119	2
3. IDENTIFICATION: Moc Chau Army Barracks	3
4. DATE OF INFORMATION: 30 January 1965 DATE OF TIS: 16 April 1965	4 5
5. LOCATION: 20-49-50N 104-38-10E, UTM 48Q VJ 617032 approximately 10 NM NE of the Laos/North Vietnam border. 0.8 NM S of Route 6.	6 7 8
6. DESCRIPTION: Area contains 3 targeted sub areas and other groupings of a few buildings each, all interconnected by a secondary road net. W of the road from Route 6 to Ban Ang are two targeted areas. The southernmost comprises 3 administration-type buildings 5 barracks-type buildings, 11 storage buildings and several small support buildings. Outside the area to the south is a possible motor pool. Another targeted area is immediately N and includes 4 barracks-type buildings, 2 support buildings and a few small u/i buildings. Further to the N and NE are other scattered buildings of varioutypes. About 500 yds directly E is the third targeted area which includes two barracks-type buildings and 12 maintenance/support-type buildings and other smaller buildings. Throughout the general area a few buildings are new, but there is evidence that several former buildings have been dismantled. There are some trenches and strong points or AW positions along the trails to the north and a few revetments can be seen.	90112345678 112345678 122223456
7. SIGNIFICANCE: This area is part of the Moc Chau-Ban Xom Lom complex utilized by the 335th Infantry Brigade and is reportedly used as an infantry training area. Its proximity to the Laos border makes it significant as a training area for cadre and small units going into Laos.	27 28 29 30 31
8. TARGET ENVIRONMENT: Target area is located in the hill country south of the Black River. Terrain is wooded on ridges and hillsides, with cultivated areas along larger watercourses. Civilian settlements are located approximately t mile northeast and southwest of the target area. Headquarters and major elements of the 335th Brigade are located in the Moc Chau-Ban Xom Lom area (1 Jan 1964).	32 33 34 35 36 37 38
9. DEFENSE ENVIRONMENT:	39
a. There are no AAA sites in the immediate area. At Ban Xom Lom, approximately 6 NM to the east, is a 4-position medium (57mm-85mm) site, 4 positions occupied and a probable light (14.5mm-37mm) site, 4 positions occupied. There is also a 4-position unoccupied light site.	40 41 42 43 44
	45 46
c. Cadre and trainees in the immediate area probably comprise 1000 personnel and there are numerous AW positions.	47 48



A CONTRACTOR OF THE PROPERTY O			The same of the sa	
and storage buildings, to support buildings at to personnel. Damage	Destruction Damage conditions	tion of bariteria is and acco	mpanying casualties	1 2 3 4
send trained units int to P/L elements.	Immediate o Laos and	reduction disruption		5 6 7
be resumed within 12 hareas provide sufficie under canvas.			barracks area could n of damage. Adjacen odate all troops	8 10 11
13. COLLATERAL DAMAG	E: Insign	ificant		12
14 RECOMMENDED WEAP	ONS AND SO	RTIES:		13
area. Weapons and area To show the level prescribed, target is also show	effort requotal weapon	ave been c uired to a ns/sorties	chieve the damage required over the	14 15 16 17 18
(1) In order weapons/sorties	to achieve required o	a damage ver target	level of 30% :	19 20
Weapon: SNAKEYE or	250# BOMB or	500# BOMB or	750# BOIÆ	
Area A 47/4	75/7	39/5	23/4	21
Area B 18/2	43/4	22/3	13/3	22
Area C 40/4	64/6	33/4	20/4	23
TOTALS: 105/9	182/16	94/11	56/10	24
(2) Weapons/s "over target" re	orties oper quirement	rationally shown abov	required to achieve	25 26
		115/13	68/12	27
(3) In order weapons/sorties	to achieve	a damage ver target	level of 70%	28 29
Weapon: 250# SNAKEYE or	250# BOMB or	500# BOMB or	750# <u>вомв</u>	
Area A 158/14	253/22	132/15	78/13	30
Area B 61/6	145/13	75/9	44/8	31
Area C 135/12	216/18	112/13	68/12	32
TOTALS: 354/30	614/52	319/36	190/32	33
(4) Weapons/s	orties oper quirement	rationally shown above	required to achieve	34 35
"over target" re	749/63	389/44	232/39	36
15. PROBABILITY OF A	CHIEVING DI	SIRED DAM	AGE LEVEL: 50%.	37
			entre de la constante de la co	;

TOP CRET

A-C-P-3

Tab P to Annex C to Appendix A TAB R TO ANNEX C TO APPENDIX A

TARGET NO. 39



A-C-R-1

Tab R to Annex C to Appendix A

1. TARGET NUMBER: 39	
2. <u>BE NUMBER</u> : 0617-0082	1
	2
3. IDENTIFICATION: Chap Le Army Barracks NW	3
4. DATE OF INFORMATION: 19 February 1965 DATE OF TIS: 23 March 1965	4 5
5. LOCATION: 17-07-50N, 106-56-50E (UTM 48Q YD 083943) 1.7 NM NW of Chap Le.	6 7
6. DESCRIPTION: The Chap Le Army Barracks are part of an active military complex extending N along Route 1 from Vinh Linh. Two groups of barracks are in a NW/SE alignment on the W side of Route 1. The larger and southernmost area consists of approximately 14 barracks-type buildings, 2 administration buildings, 8 storage-type buildings and 16 probable support buildings. The northern group contains 5 barracks-type buildings, 1 administration building and 6 storage/support buildings, 1 aroop capacity is 1000 - 1200. NW another group of buildings has been dismantled except for a mess hall and two support buildings. Several vehicle revetments are along the road S of the larger area and there are trenches, foxholes, strongpoints and light AAA positions throughout the area. The area can contain at least 2 battalions and headquarters elements.	8 9 10 11 12 13 14 15 16 17 18 19 20 12 22
7. SIGNIFICANCE: This installation appears to be a head- quarters in an extensive military complex near the Line of Demarcation and can both control Route 1 and assist infiltration activities to the S and W. Probably a part of the 270th Regt., currently carried heavily overstrength at an estimated total of 5,000.	23 24 25 26 27 28
8. TARGET ENVIRONMENT: The Chap Le Army Barracks are adjacent to Route 1, 3 NM SW of the Gulf of Tonkin in flat lowland terrain. The area is 27 NM SE of Dong Hoi and approximately 7 NM from the Line of Demarcation. It is in a marea of numerous small farming villages the nearest of which is Chap Le, 1.7 NM to the SE.	29 30 31 32 33 34
a. There are 5 active light (14.5mm = 37mm) AAA sites containing 16 occupied positions in the Chap Le-Vinh Linh area. Additionally, there are 23 inactive sites with 102 unoccupied positions (DOI: 8-19 Feb 65). Photography of 11 March 65 shows 1 active site (4 positions occupied, 2 unoccupied) and 3 inactive sites (14 positions unoccupied) in the immediate vicinity of the target. b. Estimated military population in Chap Le-Vinh Linh area is about 5,000. Target area will house about 1,500 personnel and is well secured by strong points and trenches	55078901 23456
c. Three early warming radars are located within a 10 NM	47 48

TOP CRET

A-C-R-2

Tab R to Annex C to Appendix A

building level is	s with acc	ompanying ca	sualties	alties. Damage cand administration to personnel. Damage	
at the i	FECT ON DR ort for th 7th parall Viet Cong	Y: Thirty p e DRV forces el and would forces in th	ercent da immediat probably e NW part	mago level would a sly north of the interest reduce the support of South Vietnam	reduce 5 DMZ 6 rt 7
troops to	ithin 6 to bivousc.	12 hours.	s area co Ample spa	uld probably be of ce exists for dis	pera- 9 placed 10 11
13. <u>co</u>	LLATERAL D	AMAGE: Insi	gnificant		12
14. REC	COMMENDED	WEAPONS AND	Sorties:		13
area. level	To show	and sortles the effort rain total wear	nave bee equired t	comprised of four n computed for eac o achieve the dama ies required over	ch 15
Wea	(1) In ord	ier to achie les required	ve a dama over tar	ge level of 30% get:	19 20
Weapon:	250# Snakeye	250# or <u>BOMB</u> or	500# BOMB	750# or <u>BOMB</u>	
Area A	48/4	72/6	37/4	22/4	21
Area B	109/9	145/12	74/8	W+/7	22
Area C	71/6	93/8	48/5	28/5	23
Area D	62/5	86/7	44/5	26/4	24
TOTALS:	290/24	396/33	203/22	120/20	25
ach	(2) Weapor leve "over	s/sorties of target" red	perationa quirement	lly required to shown above:	26 27
	354/31	484/40	248/27	146/24	28
Wea	(3) In ord	ler to achieves.es required	ve a dama; over tar;	ge level of 70% get:	29 30
Weapon:	250# Snakeye	250# or <u>BOMB</u> or	500# BOMB	750# or <u>BOMB</u>	
Area A	162/14	243/20	125/14	75/12	31
Area B	368/31	489/41	~250/28	149/25.	32.,
Area C	240/20	314/26	162/18	95/16	33
Area D	209/17	290/24	149/16	88/15	34
TOTALS:	979/82	1336/111_	_ 686/76_	407/68	35

TOP SCRET

A-C-R-3

Tab R to Annex C to Appendix A

15.

(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:				
1190/100 1630/136 836/93 496/83	3			
PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%	Ц			

A-C-R-4 Tab R to Annex C to Revised by 7th Note to Holders $^{\wedge ppend^{\frac{1}{2}}\times \frac{1}{2}}$

TAB S TO ANNEX C TO APPENDIX A

TARGET NO. 39.1



Tab S to Annex C to Appendix A

1. IARGET NUMBER: 39.1	1
2. <u>BE NUMBER</u> : 617-0223	2
3. IDENTIFICATION: Ben Quang Army Barracks SW	3
4. DATE OF INFORMATION: 23 February 1965 DATE OF TIS: 5 April 1965	4 5
5. LOCATION: 17-01-00N/106-55-10E, UTM 48Q XD 025822, approximately 6.5 NM WSW of Vinh Linh and 2.5 NM N of DMZ.	6 7
6. prockittion: The target contains 3 barracks area, tarestted A, B, and C on the N side of Ben Xe River and an adjacent training area across the river. Area A contains 1 administration building, 8 barracks-type, 9 barracks, 10 support buildings, and several other small buildings, housing approximately 470 troops. Area B contains 11 barracks-type, 7 support buildings, 2 administration-type buildings and other small buildings, housing approximately 730 troops. Area C contains 16 barracks/support buildings, plus smaller buildings housing approximately 870 troops. South across the river from area C is a training area and some small support buildings.	8 9 10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: Installations in the target area could provide housing for up to 3 battalions of troops. They appear part of a military complex that extends NNE through the town of Ben Quang. Target could be involved in defense of DMZ and/or final staging and training of troops passing into South Vietnam. Possibly units of the overstrength (5,000) 270th Independent Infantry Regiment are located here.	19 20 21 22 23 24 25
8. TARGET ENVIRONMENT: Target is approximately 0.7 NM SW of the village of Ben Quang, situated in the intensively cultivated lowlands of the Ben Xe River, 10 NM from the Gulf of Tonkin. Areas not under cultivation are covered with scrub and under-brush. Population of Jen Quang is approximately 500.	26 27 28 29 30
9. DEFENSE ENVIRONMENT: No AAA defenses have been identified in the target vicinity and no revetted gun positions have been observed. In the Vinh Linh area only 5 NM ENE are 5 active light (14.5mm-37mm) sites amounting to 16 guns. Also there are 23 inactive sites with 102 unoccupied positions as well as numerous prepared AW positions.	31 32 33 34 35 36
Within a 10 NM radius from Vinh Linh are the following	37 38
a. KNIFEREST B	39
b. RUS-2	40
c. SCR-270	41
10. <u>DAMAGE OBJECTIVE</u> : Personnel casualties. Damage criterion is structural damage to barracks and administration buildings with accompanying personnel casualties. Damage level is 30 percent.	42 43 44 45



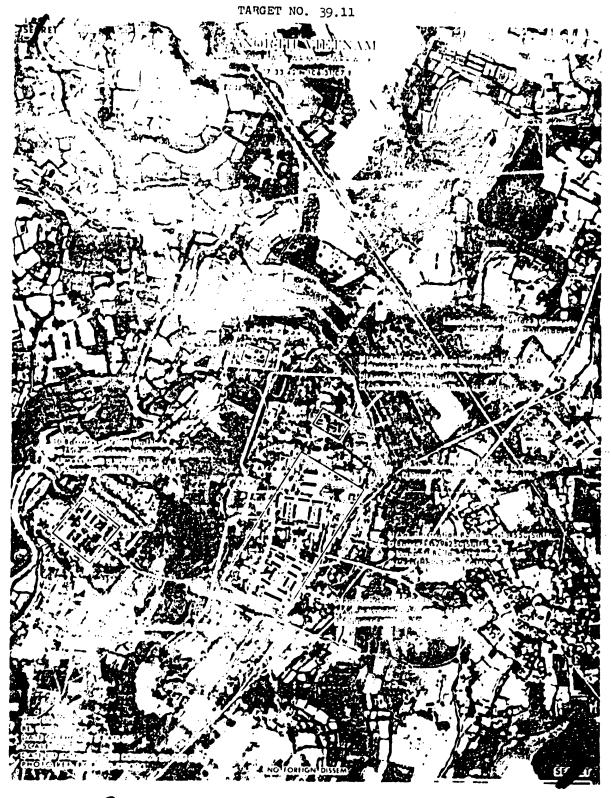
Tab S to Annex C to Appendix A

347

	4	4	
TOP	9	C'R	FΤ

			Maria	
the support	ON NVN: Thirty perfor the DRV forces	rcent damage 10 immediately nor	evel would reduce	1 2
for the Viet	Cong forces in the	brongerth Ledice	the support	3
12. RECUPER	RABILITY: A Barracke		Consumption of the second	
troops to biv	ouscare A	mple space exis	sts for displaced	5 6 7
	ERAL DAMAGE: Insig		The state of the s	8
14. RECOMME	ENDED WEAPONS AND S	ORTIES!		9
a. This areas. We	s is a large target eapons and sorties	complex compri	sed of three	10
level pres	Brow the effort re Boribed. total wear	GUITED to schie	wa the demand	11
101801 18	areo Blown.			13 14
(1) weapons	In order to achieved required	e a damage leve over target:	el of 30%	15 16
250 Weapon: <u>SNA</u>	0# 250# AKEYE or <u>BOMB</u> or	500# 750 BOMB or BOM		
Area A 8	100/8	50/6 28/	'5	17
Area B 4	15/4 66/6	34/4 20/	′3	18
Area C 3	88/3 62/5	31/3 19/	' 3	19
TOTALS: 16	3/14 278/19	115/13 67/	13	20
(2) _. "over t	Weapons/sorties op arget" requirement	erationally requirements shown above:	uired to achieve	21 21
19	5/17 288/23	140/16 81/	16	23
(3) weapons	In order to achieve /sorties required	e a damage leve Over target:	1 of 70%	24 25
250 Weapon: <u>SNA</u>	# 250# KEYE or BOMB or	500# 750 BOMB or BOM		
Area A 25	0/21 338/28	180/20 100/	17	20
Area B 15	0/13 240/20	120/13 68/	'11 ,	27
	5/10 220/18	110/12 62/		28
	5/44-27-2798/66		38	29
"over t	Weapons/sorties ope arget" requirement	erationally required shown above:	uired to achieve	30 31
64 (2000)	0/54 905/82	500/55 280/	46	32
15. PROBABIT	LITY OF ACHIEVING I	ESTRED DAMAGE		33
				•
to design the second			A CANADA Na Maria	
Total and the second of the se		Townson the same	And And Comments	

348



TOP SCRET

A-C-T-1

Tab T to Annex C to Appendix A

•			
1	۱.	TARGET NO: 39.11	•:
		BE NUMBER: 0617-00084	1
3	3.	IDENTIFICATION: Hoan Lao Army Barracks S	_
		DATE OF INFORMATION: 5 January 1965 DATE OF TIS:	3
		10 November 1969	4
		LOCATION: 17-0-09N. 106-31-20E UTM XE 6:10430., 1.2 MM Hoan Lao and 8.3 MM NAW of Dong Hot.	6
The the to to nume A/W appradmi reverter ther	ma he ro po ac ni tt	barracks compounds are active training areas showing us foxholes, trenches, revetments, strongpoints, and sitions. The barracks areas contain a total of imately 70 major buildings consisting of about 20 ks-type buildings, 30 support/storage buildings, 11 stration type beildings, 3 probable mess nalls and 3 ed buildings probably used for ammo storage. In addition are support type buildings scattered throughout the nig area.	8 9 1 1 2 1 3 4 5 6 7 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
i i i i i	me	ntial complex. It is capable of supporting up to 2500	21 22 23 24
Seve 1s u A/P.	ra nd	rely list constal lowing about 8.3 NM NW of Dong Hoi. I civilian populated areas are nearby and most of the area or heavy rice cultivation. About 5 NM SE is Dong Hoi	25 26 27 28 29
W	on 1t	mul regimental defense capabilities can be anticipated.	30 31 32 33 34
2 T 1 10	na na	DAMAGE OBJECTIVE: **Personnel reasualties, Damage lon is structural damage to barracks and administration	35 36 37 38 39 41 41
leve 11 apa	1 : b1	PECT ON NVN: Reduction of close military support lity and trained personnel to assist or participate in	4.3 4.4 4.6.47

· -				
12. RECUPERABI should take about back to normal of permanent struct	neretions bin	COCAT WITIES	level of 30% it try personnel to get tents. Repair to	1 2 2 3
13. COLLATERAL		gnificant.		5
14. RECOMMENDE	D WEAPONS AND	SORTIES:		6
This is	A Targetter	Alter to Street	comprised of four	-
area. To sho	W the effort	HEAR DEEL	computed for each	?
level prescri target is als	bed, total wea	pons/sortie	achieve the damage . s required over the	9 10
The state of the s	Talk Control of the C	MINISTER STATES	. 🕶	11.
	order to achie rties required	OVER: TARDA	T	12 13
.cg// ここの	250#	500# the	250#	
DHARE	TE OF BOMB	or BOMB o	BOMB	,
Area A 418/	35 483/40	ંદ્ર 248/28 ે.	145/24	14
Area B 37/	3 60/5	31/3	18/3	15
Area C 91/	3 113/9]	58/6	34/6	16
Area D 27/2	2 49/4	25/3	15/2	17
TOTALS - 573/1	+8 705/58	362/40	212/35	18
(2) Wear	ons/sorties of	perationally	required to	19
	er target" red			20
698/5		410/49	-,-, . 3	21
(3) In o weapons/sor	order to achieventies required	e a damage over target	level of 70%	22 23
250# Weapon· <u>SNAKEYE</u>	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A 1409/11	7 1628/135	836/93	489/82	24
Area B 125/10	203/17	105/12	61/10	25
Area C 306/26	381/32	195/22	115/19	26
Area D 91/8	165/14	85/9	51/8	27
TOTALS: 1931/16	1 2377/198	1221/136	716/119	28
(4) Weap	ons/sorties on	eretionali.	Decuted to	
#C111646 OA	ar rarget. Led	ulrement sh	own above:	29 30
2360/199	· ·		872/185	31
15. PROBABILITY	OF ACHIEVING	DESIRED DAM	ACE LEVEL: 50%.	32

TAR U TO ANNEX O TO APPENDING A

TARGET NO. 59.12



TOP ECRET

A-C-U-1

Vab V to America to Appendix A



1. TARGET NUMBER: 39.12	
	1
2. BE NUMBER: 617-00203	2
3. IDENTIFICATION: Dong Hoi Army Darracks, Citadel	3
4. DATE OF INFORMATION: 18 February 1965 DATE OF TIS: 16 April 1965	1
16 NM SE of Quang Kha. 33 NM NM 06 37-34E, UTM 48Q XE 726317.	7
6. DESCRIPTION: Installation is located in the center of Dong Hoi and is secured by wall and moat. Two deck-type bridges permit Route 1 to enter and exit the installation in a north - south direction. The area contains 42 barracks (98,000 sq. ft.) 3 administration buildings, 36 storage/support type buildings and miscellaneous small buildings. A personnel communication trench system surrounds the athletic field located in southwest portion of the installation.	101111111111111111111111111111111111111
7. SIGNIFICANCE: This installation is one of the several within the Dong Hoi military complex and probably houses troops used for the internal security of Dong Hoi. It also could provide logistic support for nearby operational elements of the 325th Division. The 325th reportedly directs troop operations in the DMZ and possibly provides support to both Viet Cong and Pathet Lao activities.	16 17 18 19 20 21 22
8. TARGET ENVIRONMENT: Urban Dong Hoi surrounds the citadel and civilian housing is particularly dense on the north and the southeast. The Kien Giang skirts the northeastern section of the wall and moat.	234 25 26
9. DEFENSE ENVIRONMENT: Dong Hoi area defenses include 7 light (14.5mm-37mm) AAA sites, with 29 light (14.5mm-37mm) positions occupied and 4 positions unoccupied, plus 10 inactive sites (48 positions unoccupied). DOI: 31 March 1965.	27 28 29 30
The 501st Coastal Security Battalion is reported located at Dong Hoi, in addition to elements of the 325th Division in and around Dong Poi.	31 32 33
KNIFEREST B and SCR-270 radars are located at 1730N 10636E. Early warning detection capabilities are:	34 35
a. 60 NM for A-1 and F-101 aircraft at 3,000 ft.	36
b. 80 NM for A-1 and F-101 aircraft at 5,000 ft.	37
2 100 W. Car D. 201	38
and above.	JO





_				•		
building level is	s with accome 30 percent.	rai damage panying ca	to barrac sualties t	ulties. Dama ks and admin o personnel.	Istration Damage	1 2 3 4
effect of however, would be	n the 325th defensive o disrupted t	Division operations comporarily	destructi r upon sup in the gen	reportedly ho on would have port to the I eral Dong Ho	minimal DMZ and VC; L complex	56789
damage. moat coul sonnel re	The athleti	c field and te displace could broke	nours arte d unoccupi ed troops	f this barrac r infliction ed terrain be under canvas, tained from t	of eyond the	10 11 12 13 14 15
13. <u>co</u>	LLATERAL DAN	MAGE: Insi	gnificant.			16
14. RE	COMMENDED WE	CAPONS AND	SORTIES:			17
area. level	 weapons s To show th 	und sorties de effort r total wes	have been equired to	comprised of computed for achieve the es required of	each	18 19 20 21 22
v. · · Wei	(1) In orde apons/sortic	r to achie	ve a damag	e level of 30	%	23 24
Weapon:	250#	250# r <u>BOMB</u> o	500#	750# r <u>BOMB</u>		24
Area A	153/13	196/17	100/12	59/10		25
Area B	73/7	108/9	56/7	33/6	.	26
Area C	17/2	49/5	25/3	,15/3	64 a	27
			COLUMN AND AND AND AND AND AND AND AND AND AN	. 101/10		28
	ver target"	requiremen	perational t _. shown ab	ly required (over a	o achieve	29 30
, inda	(3) In orde	430/37	221/26	130/22	A Company of the Comp	31
					%	32
v	apons/sortie	s required	over targ	et:		23

A-C-U-3



250# Manager 250#	250# 50	0# # 750# ···	atte e
Weapon: SNAKEYE	DESTRUMENT OF 1 BO	MB COT T BOMB	A STATE OF THE STA
Area A 516/43	660/55 77 338	/38 199/34	1.
Area B 2246/21	364/61 14 189	/21 11/19 =	2
Area C 58/5	166/14 202 85	/10 36 51/9	3
TOTALS: 37 820/70	1190/10 94 612	168 30 361 161 3	
(4) Weapon	s/sorties operat	ionally require	d to achieve 5
Over target".	requirement sho	m-spove:	6
1000/85	1451/12 37 746	/83 E 440/74 s	7
-15. PROBABILITY OF	ACHIEVING DESI	RED DAMAGE LEVI	L: 50%. 8

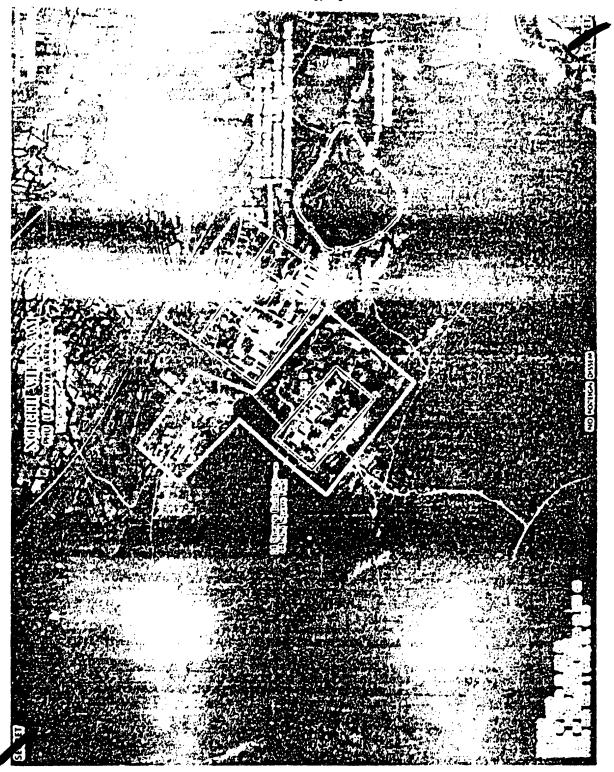
TOP SECRET

Tab U to
Annex C to
Appendix A



TAB V TO ANNEX C TO APPENDIX A

TARGET NO. 39.13



TOP CRET

A-C-V-1

Tab V to Annex C to Appendix A

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.72	P 7	200
1.	TARGET	NUMBER	:	39.13	1

- 2. BE NUMBER: 617-0629
- 3. IDENTIFICATION: Phu Le Army Barracks and Supply Depot
- 4. DATE OF INFORMATION: 11 March 1965
 DATE OF TIS: 28 May 1965
- 5. LOCATION: 17-36-50N/106-27-30E, UTM XE 548479, .5 NM SSE of Phu Le and approximately 13 NM NW of Dong Hoi.
- 6. DESCRIPTION: This installation consists of a barracks area, a storage and support area, and secured ammunition storage. Area I contains II barracks, I mess hall, I administration building, and 17 maintenance/support structures. Area 2 contains I4 storage buildings with a capacity of 44,825 sq ft. The ammunition storage area is fenced and partially secured on the north and south by personnel trench systems and contains 4 revetted buildings. These buildings provide 6,500 sq. ft. storage space. There are extensive trench systems and vehicle revetments scattered throughout the installation. Up to 2 battalions can be accommodated at this facility.
- 7. SIGNIFICANCE: This target is a component of the Dong Hoi Military Complex and probably houses elements of the 325th Division. The 325th reportedly directs troops operations in the DMZ and possibly provides support to the Viet Cong and Pathet Laos.
- 8. TARGET ENVIRONMENT: This installation is bounded on the 25 west and south by heavily wooded areas and immediately to the 26 NNE is the abandoned rail line. North of the rail line is a 27 secondary road which allows access to Route 1 to the east.
- 9. DEFENSE ENVIRONMENT: No AAA is known to exist in the immediate vicinity of the target. Nearest AAA is located at Cuu Dinh (Quang Khe Naval Base), approximately 6 NM north, where two sites are active (3 57/85mm plus 1 to 4 light AAA). Three inactive sites (14 unoccupied positions are also in the adjacent area. Naval craft, with weapons up to 37mm, are normally berthed at Quang Khe.

Evidence of ground force strength (paragraphs 6 and 7) suggests the likelihood of prepared AW and rifle positions.

Surface search radar is located at Quang Khe. However,

Kniferest B and SCR-270 radars located at Quang Khe. However, 38 Kniferest B and SCR-270 radars located at Dong Hoi (13 NM 39 southeast) provide superior EW detection capability. 40

10. DAMAGE OBJECTIVE: Personnel casualties and destruction 41

10. DAMAGE OBJECTIVE: Personnel casualties and destruction 41 of stores. Damage criterion is structural damage to barracks 42 and storage buildings, with accompanying casualties to 43 personnel. Damage level is 30 percent.

TOP ECRET

A-C-V-2

Tab V to Annex C to Appendix A 5

8

19

20

21 22

35

37

12. person porary	RECUPERABILITY: nel and troops shelter the	Utilizing for clearing	lity to a light of the light of	available civilian and setting up tem-	123
open a supply availa Comple	rea for field b stocks would p bility and prio x.	illeting. robably rec rities with	Replacement Replac	nt of personnel and	7 8 9 10 11
13.	COLLATERAL DAMA	GE: Insign	nificant.		12
14.	RECOMMENDED WEA	PONS AND SO	ORTIES:		13
are	as. Weapons an a. To show the el prescribed, get is also sho	effort rectotal weapo	nave been quired to quired to	omprised of two computed for each achieve the damage s required over the	14 15 16 17 18
	(1) In order weapons/sorties	to achieve required o	a damage ver targe	level of 30% t:	19 20
Weapon	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	190/16	220/18	110/12	70/12	21
Area B	82/5	113/20	58/6	34/6	55
TOTALS	: 272/21	333/38	168/18	104/18	23
	(2) Weapons/ "over target" r	sorties ope equirement	erationally shown above	y required to achieve ve:	24 25
	322/25	407/46	250/22	127/22	26
1	(3) In order weapons/sorties	to achieve required o	e a damage over target	level of 70%	27 28
Weapon	250# : <u>SNAKEYE</u> or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	640/53	740/62	370/41	236/39	5.3
Area B	276/23	380/31	195/22	115/19	30
TOTALS	916/76	1120/93	56 5/ 63	351/58	31
ı	(4) Weapons/ "over target" r	sorties ope equirement	rationally shown abov	required to achieve	3. 33
	1120/93	1370/114	690/77	428/70	34
15. <u>F</u>	PROBABILITY OF A	CHIEVING D	ESIRED DAM	AGE LEVEL: 50%	35 [.]

TOP CRET

A-C-V-3

Tab V to Annex C to Appendix A

TAB W TO ANNEX C TO APPENDIX A

TARGET 110. 39.14



1. TARGET NUMBER: 39.14	
2. BE NUMBER: 617-0099	
3. IDENTIFICATION: Ba Don Army Barracks	
4. DATE OF INFORMATION: 12 March 1965	ı
DATE OF TIS: 12 April 1965	:
5. LOCATION: 17-45-08N/106-26-12E, UTM XE 525634. 0.75 NM west of Route 1 and 0.75 NM east of Ba Don, adjacent to Route 110L leading NW from Route 1.	. 8
6. DESCRIPTION: The target consists of 3 areas, A, B, and C. Area A contains 23 buildings of which approximately 1C are barracks, 2 administration buildings, 1 auditorium, and 1C support/supply buildings: entire area is surrounded by security fence. Area B appears to contain 10 storage buildings and area C is a storage area of 5 buildings.	
7. SIGNIFICANCE: Target is possibly headquarters for APSF (Armed Public Security Force) security troops, probably in battalion strength. Installation appears related to local defense and activities, and not a part of operational PAVN elements.	15 16 17 18
8. TARGET ENVIRONMENT: Situated 2 NM from the Gulf of Tonkin and just north of the Rao Nay. Area is cultivated coastal lowland consisting of paddy fields and numerous farming villages. Civilian population in a 2 mile radius is approximately 3000.	5/ 5/ 5/ 5/ 5/
	200
is structural damage to barracks and storage buildings. Damage level is 30 percent.	35 37 38 39
FILECTIVENESS OF SECURITY OPERATIONS IN SENSITIVE COASTAL	40 41 42
personned could probably resume security operations in 4 to 5 hours, using remaining barracks and bivouac under canvas. Replacement of supplies depends on priorities, probably taking	45 45 46 47

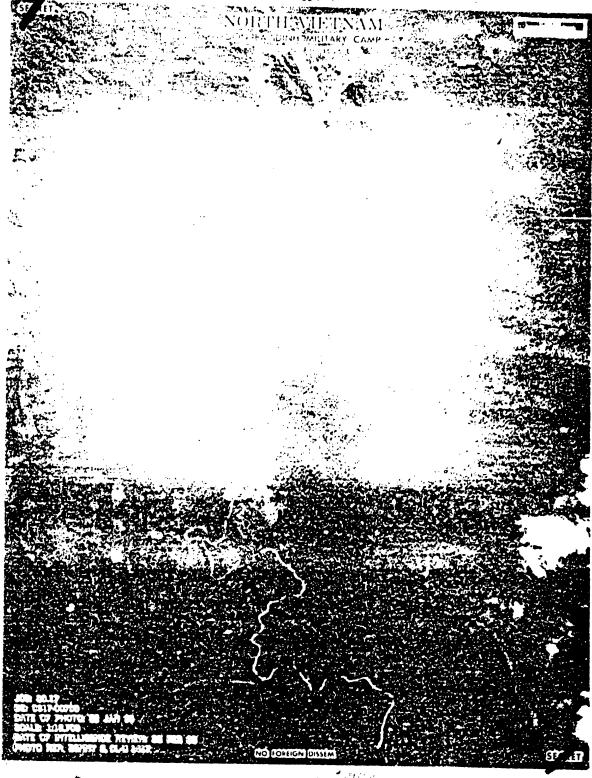


13. COLL	ATERAL DAMAGE:	Insignifi			
	MMENDED WEAPON	0-1-0-			1
					2
area.	his is a large Weapons and so To show the efficiency total get is also show the sound to the sou	fort requir	been comput	ed for each	34 56 7
() weapo	l) In order to ons/sorties red	achieve a quired over	damage level target:	of 30%,	8 9
Weapon	250# SNAKEYE or	250# BOMB or	500# <u>POMB</u> or	750# BOMB	
Area A	62/5	82/7	41/5	24/4	10
Area B		88/7	44/5	26/4	11
Area C	34/3	62/5	31/3	18/3	12
Totals	152/13	232/19	116/13	68/11	13
achie	e) Weapons/sort	ies operat: t" require	lonally requirent shown a	ired to bove:	14 15
•	186/16	283/23	142/16	83/4	16
weapo) In order to ns/sorties req	achieve a quired over	iamage level target:	of 70%,	17 18
Weapon	250# SNAKEYE or	250# BOMB or	500% BOMB or	750# BOMB	•
Area A		277/23	139/15	81/13	19
Area B	189/16	297/25	149/17	88/15	20
Area C -	115/10	-209/17	105/12	61/10	21
Totals	513/43	783/65	393/44	230/38	22
achie) Weapons/sort ve "over targe	1es operati	onally requirement shown at	lred to	23 24
	626/53	955/79	480/54	281/47	25
15. PROBA	BILITY OF ACHI	EVING DESIR	ED DAMAGE LI	EVEL: 50%	26



TARREST TO AUDIES TO AFFINDIX A

TARGET NO. 39.17



TOP SECRET

A-C-7.-1

Tab Z to Annex C to Appen in A

1. TARGET NUMBER: 39.17	
2. BE NUMBER: 617-0799	1
	2
3. IDENTIFICATION: - Don Bai Dinh Military Camp	3
4. DATE OF INFORMATION: 21 April 1965 DATE OF TIS: 10	4 5
5. LOCATION: 17-45-26N 105-46-26E, UTM WE 825632. 5.5 NM north of Mu Gla Paus.	6
6. DESCRIPTION: This target is along Route 12 and is located at a small village noted in the gazetteer as Don Bai Dinh. At this location an unidentified tributary joins the Rao Cai and both are crossed by fords. Immediately east of the target a road and bridge by-pass are being constructed which upon completion will eliminate dependence on the fords. There are 16 buildings in Area A. Area B is civilian in appearance and probably houses personnel engaged in the road and bridge construction. Area C (not covered in present photography) is fence-secured and contains 2 probable storage buildings and open storage space.	29 10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: This target appears to be a rest and refuel point supporting the movement of troops and supplies enroute to Laos by way of Mu Gia Pass. Earlier photography disclosed considerable vehicular traffic in this area. The road and bridge construction is vital to the Viet Cong/Pathet Lao support effort.	19 20 21 22 23
8. TARGET ENVIRONMENT: The target is along Route 12 and is surrounded by densely wooded and mountainous terrain.	راج داہے
9. DEFICIOE ENVIRONMENT:	27
unoccupied positions) and 2 inactive 12.7mm sites (12 unoccupied positions) and 2 inactive 12.7mm sites (5 unoccupied positions) in the vicinity of the target. In addition, there are 2 inactive 14.5mm-37mm sites (8 unoccupied positions) at Mu Gia and three 14.5mm-37mm sites (1 occupied/10 unoccupied positions) at Xom Thanh, approximately 9 NM north. (DOI: 22 March and 5 April 1965).	890 333 333 35 35
	36 37
and viril boll.	3E 39
evel is 30%.	41, 41 42 43 44
reducing one source of support to both the Pathet Lao and	45 46 47 48

TOP SCRET

A-C-Z-2

A-C-Z-2

Tab Z to
Annex C to
(Revised by 7th Note to Holders Armendix A

TOPSCRET

12. RECUPERABILITY operational within is available for frewould require up to assigned.	TY: The barr 36 hours aft	er damage	would prot since ampl	e space	1 2 3 4 5
13. COLLATERAL D	AMAGE:	Unit Taxes		•	6
a. None	Value of the state	Sect of A		•	7
b. Populatio	n	Cas	ualties*		3
Target Ar	ca Adequate	Area Tar	get Arca	Adiacent Area	o o
M11 C	iv Mil	Civ Mil		Mil Civ	10
950	o o	U 57	· o	0	11
*Casualti	es estimated	under day	light aler	t conditions.	12
14. RECOMMENDED					13
and sorties have be required to achieve sorties required of	een computed o the damage ver the tark	for each level pre et are als	area. To scribea, to so shown:	otal weapons/	14 15 16 17
(1) In weapons/sort	order to ac ies required	nieve a da over targ	mage level et:	or 30%,	18 19
WEAPON	250# SNAKEYE or	250# Bomb or	500# Bomb or	750# Pomb	-
Area A (450 x 500)	56/5	74/6	37/4	22/4	20
Area B (65 x 800)	20/1	72/6	36/4	21/3	21
Area C (70 x 150)	9/1	30/3	15/2	9/2	22
Totals	85/7	176/15	88/10	52/9	23
(2) We "over target	apons/sortie " requiremen	s operation ts shown a	nally requabove:	ired to achieve	24 25
	104/9	215/18	107/12	63/11	26
(3) In weapons/sort	order to ac ies required	hieve a da over targ	mage level get:	or 70%,	27 28
	SNAKEYE or	The second second	Bomb or		
Area A	189/16	Carlo Control of the	, 125/14	74/12	29
Area B	67/6	246/20	122/13	71/12	30
Area C	31/2	102/9	51/6	31/5	3:
Totals	287/24	598/50	298/33	176/29	32
"over target	apons/sortie	ts shown s	ipove:	ired to achieve	33 34
	350/29	to in the second of the property of	363/40		35
15. PROBABILITY	OF ACHIEVING	DESIRED I	DAMAGE LEVE	<u>L</u> : 50%.	36
TOP CRET	A-C-2	-3		Z to ex C to	

(Revised by 7th Note to Holders)

364



TAB ZG TO ANN " APPENDIX A



365

TARGET INFORMATION AND STRIKE DATA

The state of the s	
1. TARGET NUMBER: 39.18	1
2. BE NUMBER: 617-1057	2
3. <u>IDENTIFICATION</u> : Muong Sen Military Installation	3
4. DATE OF INFORMATION: 2 June 1965 DATE OF TIS: 11 June 1965	4 5
5. LOCATION: 19-22-55N 104-11-10E, UTM VG 146432, approximately 2.5 NM SE of Muong Sen.	6 7
6. DESCRIPTION: This installation is located south of the Nam Bo River and Route 7. The target complex is composed of 1 administration building, 1 storage building, 3 barracks and 1 small support structure. There is ample parking and turn-around space within the area. Approximately 100 yards east of the barracks are 1 large and 1 small storage/support buildings which are probably associated with a truck park in a wooded area to the south. Directly across Route 7 from the two atorage/support buildings is a convoy staging and truck turn-around area.	8 9 10 11 12 13 14 15 16 17
7. SIGNIFICANCE: This installation is possibly the command post controlling several military support facilities located along the western reaches of Route 7, one of the principal routes used in moving troops and supplies in support of the Pathet Lao.	18 19 20 21 22
8. TARGET ENVIRONMENT: This area is mountainous with elevations from 500 to 5000 feet. Vegetation cover is dense and off-road movement would be difficult. The river valley is extremely narrow in this area. There are no civilian settlements nor cultivated fields in the vicinity of the target.	23 24 25 26 27 28
9. DEFENSE ENVIRONMENT: No AAA sites are evident in the immediate vicinity of the target; however, one inactive 6-position site is located approximately 1 NM to the east. These positions could possibly accommodate 57mm/85mm weapons. AW and small arms fire could be expected since personnel trenching is present south of the barracks area and east of the truck park. The 925th Security Bn has been reported in the Muong Sen area.	29 30 31 332 334 356
10. DAMAGE OBJECTIVE: Destruction of command post facilities. Damage criterion is structural damage to the administration and barracks facilities with accompanying personnel casualties. Damage level is 30 percent.	37 38 39 40
11. EFFECT ON DRV: Thirty percent damage level would disrupt the flow of supplies and personnel into Laos, thereby temporarily reducing one major source of support to the Pathet Lao.	41 42 43 44
12. RECUPERABILITY: Command post functions and barracks operations could be resumed on a limited scale within a matter of hours if canvas shelter or undamaged housing is available. Replacement of stores and equipment could be	45 46 47 48 49
12 Off Ammar Dawage Tolder	50

A-C-Za-2

Tab Za to Annex C to Appendix A

1000 4000

TOP SECRET

14. RECOM	MENDED WEAPO	NS AND SORT	IES;		,
					1
sorties	required ove	nieve a dame r target:	ige level of	30%, weapons/	2 3
Weapon:		250# r <u>BOMB</u> or			
All States	34/3	57/5	29/3	17/3	4
b. We:	apons/sortie rget" requir	a company of	9.0	d to achieve	5
	41/4	69/6	35/4	21/4	7
c. In sorties		hieve a dame		70%, weapons/	8 9
	115/10	193/16	98/11	58/10	10
d. Wes	apons/sortie rget" requir	s operations ements shown	lly require above:	d to achieve	11 12
•	140/12	236/19	<u>.</u> 112/13	71/12	13
5. PROBAL	BILITY OF AC			N: 50%	7 11

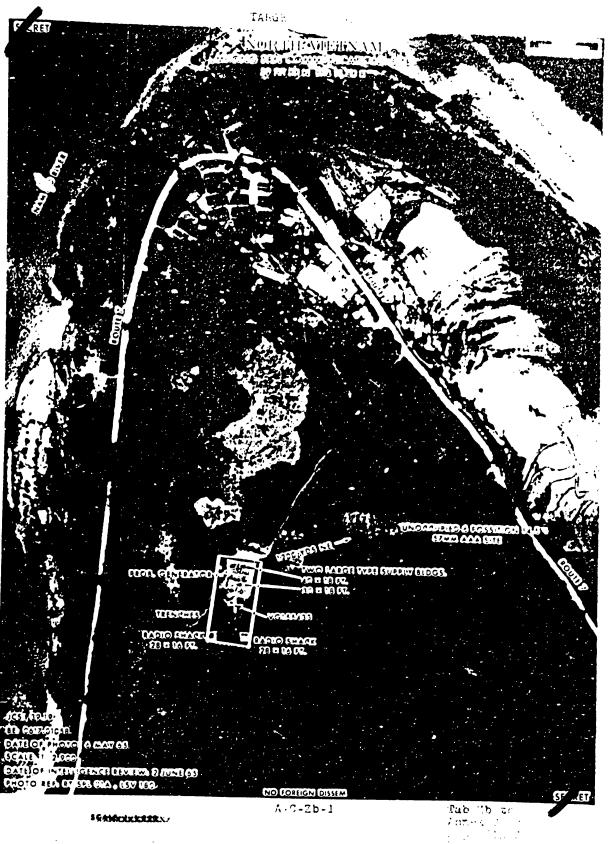
TOP STRET

A-C-Za-3

Tab Za to Annex C to Appendix A



TAP 25 TO ANNE 55 VIFENDIX A



368



1 MARANA AMARANA	
1. TARGET NUMBER: 39:19	1
2. <u>B.E. NUMBER</u> : 617-1058	2
3. IDENTIFICATION: Muong Sen Radio Comm Station	3
4. DATE OF INFORMATION: 6 May 1965 DATE OF TIS: 11 June 1965	4 5
5. LOCATION: 19-22-55N 104-11-45E, UTM VG 155433	6
6. DESCRIPTION: A small military radiocommunication station consisting of two operation buildings with a long-wire antenna directly overhead, supported by two stick type masts, one on each end of the operation buildings. Two large support buildings and several smaller ones are located nearby. Facility is about 3,300 feet west of the military installations, 6.6 nm east of the Laos border, and served by a secondary road from Route 7.	78 9 10 11 12 13 14
7. SIGNIFICANCE: This radio installation appears to be a small, fixed-type tactical facility and of low capacity; however, it has the capability of providing long-range radio-communications for PAVN units in this key border region of North Vietnam/Laos. In addition, it is believed to serve as a command and control link to PAVN units operating in Laos and in-transit to South Vietnam.	15 16 17 18 19 20 21
8. TARGET ENVIRONMENT: Installation, 400 feet above sea level, is 3.0 nm SE of Muong Sen, in a narrow valley of SE-flowing Nam Mo (river). Target is on SW slope of the valley, about 150 ft. above the valley bottom and 500 ft. from the river. Valley floor, partly cultivated and partly wooded is about 600 ft. wide. Route 7 generally parallels river, near SW bank. Valley bordered on SW by forested mountains with peaks 5,000 ft. above sea level within 5.0 nm of target; on the NE, forested hills border valley; hilltops within 5.0 nm of target reach 2500 ft. above sea level.	22 23 24 25 26 27 28 29 31
9. DEFENSE ENVIRONMENT: No AAA sites are evident in the immediate vicinity of the target; however, one inactive 5-position site is located approximately 1.5 mm to the east. These positions could possible accommodate 57mm/85mm weapons. AW and small arms fire could be expected since personnel trenching is present south of the nearby barracks area and east of the nearby truck park. The 925th Security Bn has been reported in the Muong Sen area.	3334 356 3378 3333 339
10. DAMAGE OBJECTIVE: Destruction of operation buildings and antenna array.	40 41
11. EFFECT ON DRV: Interdiction of this radio communication facility would disrupt long-distance electronic communications in and out of this military significant border region. Military units would have to switch to low-powered, tactical equipment and they would thereby lose desired command and control linkage to units operation at a distance from Muong Sen.	43 44 45 47
a. Destruction of buildings housing electronic gear would cause 75% or more damage to equipment. Very little would be available.	48 49 50



HOP CEREN

b. Repair to buildings could be accomplished in 1 to 2 weeks.	1 2
c. Electronic gear would have to be replaced, which would take from 1 to 4 weeks or possibly more; dependent on availability, techincal assistance, and transportation factors.	3456 .78
d. Antennas of this type could be replaced in a matter of 24 hours or less.	Ż
NOTE: It must be remembered, limited radio communications could possible be established by use of tactical radio equipment, and temporarily erected long-wire antennas within a day or so, therefore this type facility must be under constant surveillance to keep out of operation.	9 10 11 12 13
13. COLLATERAL DAMAGE: Insignificant.	14
14. RECOMMENDED WEAPONS AND SORTIES:	15
a. In order to achieve a damage level of 30%, weapons/sorties required over target:	16 17
250# 250# 500# 750# Weapon: SNAKEYE or BOMB or BOMB	
12/1 38/3 20/2 12/2	18
b. Weapons/sorties operationally required to achieve"over target" requirements shown above:	19 20
15/2 46/4 24/3 15/3	21
c. In order to achieve a damage level of 70%, weapons/sorties required over target:	23 22
41/4 128/11 68/8 41/7	24
d. Weapons/sorties operationally required to achieve "over target" requirements shown above:	25 26
50/4 156/13 82/9 50/8	27
15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 50%	28

TOP SCRET

A-C-Zb-3

Tab Zb to Annex C to Appendix A



TAB AA TO ANNEX C TO APPENDIX A



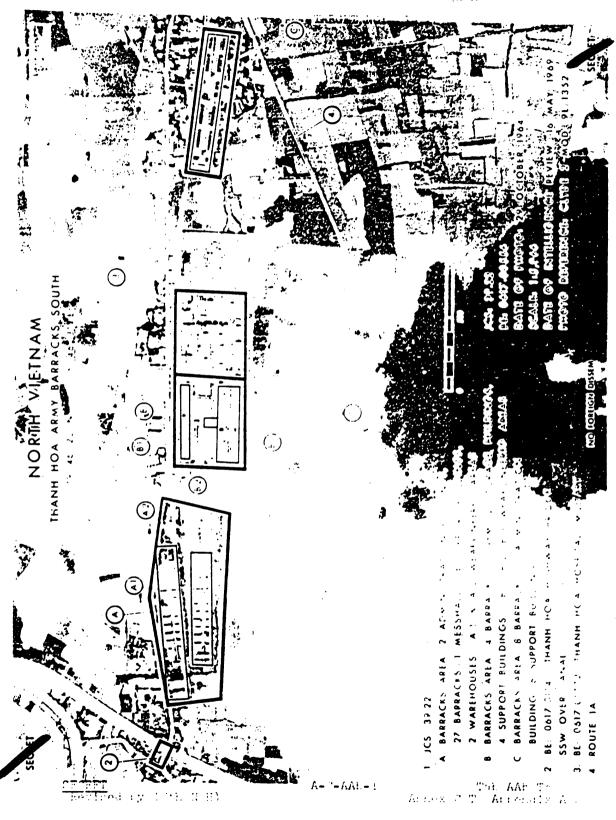


1. TARGET NUMBER: 39.2	1
2. <u>BE NUMBER</u> : 617-0061	2
3. IDENTIFICATION: Vinh Linh Army Barracks Central NE	3
4. DATE OF INFORMATION: 2 March 1965 DATE OF TIS:	4 5
5. LOCATION: 17 03 DEE 107 01 DEE UTM YEET at Vinh, 200 yards E of National Route 1, astride the road to Thuy Can.	6 7
trench system and contains 31 buildings: 2 administration buildings, 1 assembly building, 1 mess hall, 11 barracks, 15 support structures and a probable transformer building. Area B is a probable barracks area containing 12 buildings. To the west of Area B is a parade ground and a trench and fence-secured administration area. Area C is a motor pool and contains 5 buildings and 3 semi-buried POL tanks of 200 bbls estimated capacity. Area D is a probable barracks area containing 8 buildings. There is considerable trenching evident and several inactive gun positions are scattered throughout the entire area, evidence of post use for train-	8 9 10 11 2 11 4 15 16 17 18 19 22 2 2 2 2 2
7. SIGNIFICANCE: The installation appears to be headquarters for supporting elements of the 270th Independent Infantry Regiment which is currently carried heavily overstrength at an estimated total of 5000. This target can house 1200 to 1500 personnel. It is well situated to assist infiltration to the south and control movement along Route 1.	23 24 25 26 27 28
8. TARGET ENVIRONMENT: The target area is adjacent to the town of Vinh Linh (No Va) 6 NM W of Cap Lay and the Gulf of Ponkin. It is in an area of flat lowland terrain and rice cultivation and lies within 200 yards of Route 1.	29 30 31 32
9. DEPENSE ENVIRONMENT:	33
a. There are 5 active light (14.5mm-37mm) AAA sites, amounting to 16 guns. in the Chap Le-Vinh Linh area. Additionally, there are 23 inactive sites, with 102 unoccupied positions. Numerous prepared AW positions are located in the military complex areas. (DOI: 8 - 19 Feb 65)	34 35 136 37 38
b. Estimated military population in the Vinh Linh-Chap Le military complex runs as great as 5000. Target area houses 1200 - 1500. The major areas of the target are secured both by walls and by brenches, and a strong ground defense could be provided.	39C 41 43
c. Three early warning radars are located within a 10 NM radius of Vinh Linh, a KNIFEREST-B, an RUS-2, and an SCR-270.	44 45 46
10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is structural dimage to barracks and administration buildings with accompanying personnel casualties. Damage level is 30%.	47 48 49
TOP SCRET	

A-C-AA-2 Thb AA to
Annex C to
Appendix A
(Revised by 7th Note to Holders)



ll. EFFECT ON NVN: Thirty percent damage level would disrupt the flow of supplies and infiltrators into Laos, thereby reducing one source of support to both the Pathet Lao and Viet Cong.								
12. RECUPERABILITY: The barracks area would probably be operational within 36 hours after damage since ample space is available for field billeting. Replacement of supplies would require up to five days, less if high priority were assigned.								
13. COLLA	TERAL DAMAGE:	Insignifica	ent.		10			
14. RECOM	MENDED WEAPONS	AND SORTIES	<u>s</u> :		11			
To show	total Weapons	rties have b	een comput	ed of four ed for each area amage level pre- the target is	12			
(1 sorti) In order to a	achieve a da er target:	mage level	of 30% weapons/	/ 17 18			
Weapon:	250# SNAKEYE or	250# <u>BOMB</u> or	500# BOMB or	750# BOMB				
Area A	95/8	124/10	64/7	37/6	19			
Arca B	44/4	72/6	38/4	22/4	20			
Area C	19/2	41/3	22/2	13/2	21			
Area D	21/2	43/4	22/2	13/2	22			
Totals	179/16	280/30	146/15	85/14	23			
(2) "over	Wespons/sort: target" requir	les operatio	nally requi	ired to achieve	24 25			
,	218/19	342/37	178/18	104/17	26			
(3) sort16	In order to a	chieve a da	mage level	of 70% weapons/	' 27 28			
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB				
Area A	320/27	418/35	216/24	125/21	29			
Area B	149/12	242/20	128/14	74/12	30			
Area C	64/5	138/12	74/8	44/7	31			
Area D	71/6	145/12	74/8	44/7	32			
Totals	604/50	943/79	492/54	287/47	33			
(4) "over	Weapons/sorti target" requir	es operation ement shown	nally requi above:	red to achieve	34 35			
	218/61	1145/96	605/66	350/52	36			
15. PROBABI	LITY OF ACHIEV	ING DESIRED	DAMAGE LEV	EL: 50%	37			





ARGET NUMBER: 39,22	i
'. BE NUMBER: 617-0556	2
DENTIFICATION: Thanh Hoa Army Barracks S	3
L. OATE OF INFORMATION: 4 June 1969	4
DATE OF TISD: 24 June 1969	5
DATE OF PHOTOGRAPHY: 29 October 1964	6
DATE OF INTELLIGENCE REVIEW: 16 May 1969	7
5. LOCATION: 19-46-20N 105-46-31E, located 2 NM S of center of Thanh Hoa, ne or highway Route 1A.	8 9
6. DESCRIPTION: This target, oriented NNE/SSW consists of 3 areas com-	10
prising an aggregate of 72 buildings. Included in the 3 areas are 2 storage	11
buildings. 3 administration buildings, 39 barracks, 1 gymnasium, 1 messhall,	12
24 support buildings, and 2 warehouses. Installation is served by a secondary	۔ د ز
road intersecting with floute IA. Troop capacity is estimated to be 2000 men.	
Troop capacity is estimated to be 2000 men.	14
7. SIGNIFICANCE: Troops at this location could provide a garrison	15
for defense of Thanh Hoa. AAA units may be quartered here, as AAA defenses	16
have increased.	17
·	.,
8. FARGET ENVIRONMENT: Five hundred yards directly S of village of	18
Ver in the Song Ma delta area. Canals and paddy fields are adjacent to the	19
area.	20
	20
9. DEFENSE ENVIRONMENT:	21
a. The target is within the SAM envelope.	
a, the tark to within the SAM envelope,	22
b. AAA activity has been identified within 3 NM of the target.	23
HMG and small arms fire is anticipated.	24
The same series and series are series and series and series and series and series are series and series and series and series are series and series are series and series and series are series are series and series are series are series are series are se	24
10. DAMAGE OBJECTIVE: Personnel casualties and destruction of supplies	25
and equipment.	26
11. EFFECT ON NVII: Reduction of capability for defense of Thanh Hoa	27
and support to elements to the S.	28
12. RECUPERABILITY: Operational functioning of troops could resume in	29
2-24 hours, with troops bivouacked under canvas. Repair of barracks would	30
(the)-4 weeks. Replacement of supplies and equipment might require 5-10	31
dats.	32
	<i>-</i>

SE RET NO FOREIGN DISSEM EXCLUDED FROM A UTOMATIC DOWNGRADING

A-C-AAb-2

Tab AAb to Annex C to Appendix A



13. COLLATERAL DAMAGE:

a.	Minor	damage	to	surrounding	area.
----	-------	--------	----	-------------	-------

b.	Population				*Casualties				3
	Target	Area	Adjace	nt Area	Target	Area	Adjace	nt Area	4
	Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	5
	1,200	0	200		72		2	3	. 6
1	^Casuali	lies es	limated	under davli	ght alert c	ondition	36.		7

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 3 areas. One area and 5 sub areas have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 30%, the following weapons/sorties are required:

WEAPO	N:	250# SNAKEYE or	500# SNAKEYE or	50C# BOMB or	750# BOMB	15 16
Area A-	-1 (1040'x135')	21/2	15/2	36/4	20/3	17
Area A-	2 (760'x135')	21/2	11/1	28/3	15/3	18
Area B-	-I (495'x60')	11/1	6/1	20/2	11/2	19
Area B	-2 (100'x55')	6/1	4/1	13/1	7/1	20
Area B	-3 (515'x150')	20/2	10/1	23/3	12/2	21
Area C	(930'x130')	24/2	13/1	33/4	18/3	22
Totals		109/10	59/7	153/17	83/14	23

(2) Weapons/sorties operationally required to achieve "over target" 24 requirements shown above: 25

131/12 71/8 184/20 100/17 26

(3) In order to achieve a damage level of 70%, the following weapons/ norties are required:



8

9

10

11

12

15

14

27

28



WEAPON	250# SNAKEYE or	500# SNAKEYE or	500# BOMB or	750# BOMB	- 1 2
Area A-I	90/8	49/5	122/14	65/11	3
Area A-2	69/6	38/4	95/11	50/8	4
Area Bol	35/3	19/2	67/7	36/6	5
Arra B-2	2.0/2	11/1	43/5	23/4	6
Area B-3	66/6	32/4	77/9	39/7	7
Area C	79/7	44/5	111/12	59/10	8
Total	359/32	193/21	515/58	272/46	9
(4) Weapo requirements show	ons/sorties operations operations of the contract of the contr	onally required	to achieve '	'over target''	10 11
	431/38	232/25	618/70	326/55	12
15. PROBABILI	ITY OF ACHIEVING	DESIRED DAN	AGE LEVE	EL: 50%.	13



TAB SAC TO ANNEX C TO APPENDIX A

TARGET NO. 39.23



A-C-AAc-1

Tab AAc to
Annex C to
Appendix A

173 LEIPET



1. TARGET NUMBER: 39.23	1
2. <u>BE NUMBER</u> : 617-0814	2
3. IDENTIFICATION: Thanh Hoa Barracks, SSE	3
4. DATE OF INFORMATION: 14 May 1965 DATE OF TIS: 3 June 1965	4 5
5. LOCATION: 19-45-3CN/105-51-00E, UTM WG 887847, 5 NM SSE of Thanh Hoa, 500 yds NE of Thanh Hoa-Sam Son road.	6 7
6. DESCRIPTION: An active military area surrounded by a security fence. Contains a total of 38 buildings and 1 under construction, including 4 administration-type buildings, 2 mess halls, 10 barracks-type buildings (59,850 square feet), 9 storage buildings (25,425 square feet), and 3 support-type buildings. Troop capacity is about 1,200. Five hundred yards N is a training area with several trenches and strong points.	8 9 10 11 12 13 14
7. SIGNIFICANCE: Area has capacity for two battalions. May be headquarters for Thanh Hoa provincial security battalions (Armed Public Security Forces) or independent infantry troops stationed in the area.	15 16 17 18
8. TARGET ENVIRONMENT: Adjacent to village of Thuong Thon about 500 yards N of Thanh Hoa-Sam Son road in low delta marshland and paddy fields.	19 20 21
9. DEFENSE ENVIRONMENT: AAA defenses in the area are located in the vicinity of Thanh Hoa. From 4 to 7 NM NW of the target area are 15 active 14.5mm-37mm sites with a total of 44 occupied positions. There are 2 active 57mm-85mm sites with 13 occupied positions and 17 occupied HMG (12.7mm) positions. There are 6 inactive 14.5mm-37mm sites with 23 unoccupied positions and 1 inactive 8-position 57mm-85mm site. Target is within the capabilities of EW radar at My Duc, approximately 9 NM NE. Small arms ground fire can be anticipated from troops in the area.	23 24 25 26 28 29 31
10. <u>DAMAGE OBJECTIVE</u> : Casualties to security forces personnel, damage to administrative equipment and supplies.	32 33
11. EFFECT ON DRV: Reduction in area security and Thanh Hoa defenses. Loss of security administration in Thanh Hoa province.	34 35 36
12. RECUPERABILITY: Functioning of troops in this area could be resumed within 12 hours by bivouacking under canvas or quartering in private homes. Barracks could be repaired/reconstructed in 3-4 weeks. Loss of administrative records and supplies might be significant.	37 38 39 40 41
13. COLLATERAL DAMAGE: Light damage to surrounding area.	42





14. RECOM	MENDED WEAPON	is and sortie	<u>s</u> :		1
a. In sorties	order to act required over	nieve a damag r target:	e level of	30%, weapons/	2
Weapon:	250# SNAKEYE 01	250# BOMB or	500# BOMB or	750# BOMB	
	126/11	160/13	82/9	48/8	4
b. Wes	apons/sorties rget" require	operational ments shown	ly require above:	ed to achieve	5
	153/13	195/16	103/11	58/10	7
e. In sorties	order to act	nieve a damag r target:	ge level of	70%, weapons/	8 9
	425/35	540/45.	276/31	165/28	10
d. We	apons/sortier rget" require	operational	ly require above:	ed to achieve	11 12
	518/43	660/55	336/38	202/34	13
15 PROBA	BTITTY OF ACT	ITEVING DAMAG	E CRITERIO	N: 50%	14

TIR AND TO ANNOUNCE TO ASSEMBLE A



A-0-120-1



1. TARGET NUMBER: 39.24	1
2. <u>B.E. NUMBER</u> : 617-0815	2
3. IDENTIFICATION: Sam Son Army Barracks, W.	3
4. DATE OF INFORMATION: 6 May 1965 DATE OF TIS: 3 June	4
1965	5
5. LOCATION: 19-44-48N, 105-52-15E, UTM WG 913835, 2 NM W of Sam Son on N side of main road to Thanh Hos.	6 7
6. DESCRIPTION: An active military area, fence secured, and containing 11 barracks, 1 large administration building, 1 mess hall, 10 miscellaneous support-type buildings, and a parade ground. Troop capacity 1000-1200.	8 9 10 11
7. SIGNIFICANCE: The 478th Coastal Security Bn has been reported in this area. Coastal defense positions could be manned by personnel billeted at this location.	12 13 14
8. TARGET ENVIRONMENT: Barracks are immediately adjacent to the village of Van Phu, just W of a river area of low marshland and paddy fields.	15 16 17
9. DEPENSE ENVIRONMENT: There are 2 active 12.7 HMG sites within 2 NM of the area, with a total of 9 occupied positions. There are also 6 inactive 14.5 mm-37mm sites, with a total of 27 unoccupied positions. Two unoccupied coastal gun sites of four positions each are in the Cap Chao vicinity. Target is within the capabilities of EW radars in the My Duc area approximately 10 NM N. Small arms fire may be anticipated in the area of Cap Chao.	18 19 20 21 22 23 24 25
10. DAMAGE OBJECTIVE: Casualties to coastal security troops or other APSF (Armed Public Security Force) troops.	26 27
ll. EFFECT ON DRV: Reduction of coastal defense capability in the area, rendering more vulnerable the approaches to the Song Ma estuary.	28 29 30
12. RECUPERABILITY: Functioning of troops in this area could be resumed within 12 hours, quartering troops under canvas or in nearby civilian housing. Significant might be loss of military facilities for the area. Barracks could be repaired and/or restored in 3-4 weeks.	31 32 33 34 35
13. COLLATERAL DAMAGE: Insignificant.	36
14. RECOMMENDED WEAPONS AND SORTIES:	37
a. In order to achieve a damage level of 30%, weapons/sorties required over target:	38 39
250# 250# 500# 750# Weapon: <u>SNAKEYE</u> or <u>BOMB</u> or <u>BOMB</u>	
80/7 106/9 54/6 32/5	40
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	41 42
98/9 128/11 66/6 39/7	43
TOP SCRET	=

TOP SCRET

A-C-AAd-2

Tab AAd to Annex C to Appendix A

TOP S CRET

c. In sorties	order to required o	achi ver	eve a d target	dama :	ge lev	el o	f 70%, weapons/	1 2
Weapon:	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
•	270/23		357/3	0	182/2	0	108/18	3
d. Wes	apons/sort rget" requ	ies irem	operat ents s	1ona hown	lly re above	quir	ed to achieve	. 4 5
	318/28		435/3	6	222/2	4	127/22	6
15. PROBA	BILITY OF	ACHI	EVING	DAMA	GE CRI	TERI	ON: 50%	7

TOP SCRET

Tab AAd to Annex C to Appendix A



TAB AAe TO ANNEX C TO APPENDIX A

TARGET NO. 39.25





1. TARGET NUMBER: 39.25	1
2. <u>BE NUMBER</u> : 617-0124	2
3. IDENTIFICATION: Vinh Son Army Barracks S.	3
4. DATE OF INFORMATION: 14 May 1965 DATE OF TIS:	4 5
5. LOCATION: 18-52-37N, 105-19-07E. UTM 48Q WF 337867, 1.5 NM SSE of Vinh Son, 25 NM NW of Vinh.	6 7
6. DESCRIPTION: In the two JCS-targeted areas are 30 barractype buildings, an administration building, 9 warehouse-type structures, about 13 support-type buildings, including mess halls, and some unidentified structures. This appears an operational headquarters area with a troop capacity of up to 3,500. Trenches have been prepared in the area, and a paradeground is located at the SE side of the general area. NW and E of the targeted locations are training areas and other probable barracks and support buildings.	10 11 12 13 14 15 16
7. SIGNIFICANCE: This installation is part of the large Vinh Son (Anh Son) military complex that is used by the 324th Infantry Brigade. This area could be brigade headquarters, which have been reported near this site.	17 18 19 20
8. TARGET ENVIRONMENT: Target is located on a small hill in generally flat lowland just east of the Song Ca River and adjacent to Route 7. Surrounding area is crossed by small and large canals and contains numerous blocks of cultivated fields interspersed with scattered civilian settlements.	21 22 23 24 25
9. <u>DEFENSE ENVIRONMENT</u> :	26
a. In the immediate area is an active 14.5mm/37mm AAA site with 4 occupied positions and an active HMG site with 6 occupied positions. There are 2 inactive 57/85mm sites with 16 unoccupied positions, 5 inactive 14.5/37mm sites with 27 unoccupied positions, and 4 inactive HMG sites with 19 unoccupied positions.	27 28 29 30 31 32
b. Area is covered by the Anh Son EW radar in the immediate area and the EW and height finder radar at Vinh.	33 34
c. Ground troops can support with heavy small arms and A/W fire from prepared positions in the area.	35 36
10. DAMAGE OBJECTIVE: Structural damage to barracks and support buildings with accompanying loss of equipment and personnel casualties. Damage level is 30%.	37 38 39
ll. EFFECT ON DRV: Reduction in effectiveness of troops stationed along main route to Laos (Route 7) and reduction of support and training capability for Pathet Lao infiltration.	40 41 42 43
12. RECUPERABILITY: Area could probably be operational on a reduced level in 12-24 hours. Restoration to full effectiveness would depend on replacement of key personnel and equipmentprobably 5 days.	44 45 46 47



A-C-AAe-2

Tab AAe to Annex C to Appendix A

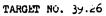


100 / 图像代课展馆

	•		e' .	•						
13. COLLATERAL DAMAGE: Insignificant.										
14. RECOMMENDED WEAPONS AND SORTIES:										
a. This target complex is comprised of two areas. Weapons and sorties have been computed for both areas. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.										
(1) In order to achieve a damage level of 30 percent weapons/sorties required over target:										
Weapon:	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB			
Area A	178/15		211/18		108/12		64/10	10		
Area B	118/10		173/14		89/10		52/9	11		
Totals:	296/25		384/32		197/22		116/19	12		
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:								13 14		
	362/31		450/39		242/27		142/23	ز1		
(3) In order to achieve a damage level of 70 percent weapons/sorties required over target:										
Weapon:	250# Snakeye	or	250# B01/1B	or	500# BUMB	or	750;/ BO://B			
Area A	600/5 0		712/59		364/41		216/36	18		
Area B	398/33		583/49		300/33		175/29	19		
Totals:	998/83		1295/108		664/74		391/65	2C		
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:								22 21		
	1220/102		1560/137		805/90		476/79	23		
15. PROBABILITY OF ACHIEVING DAMAGE LEVEL: 50%								24		



TAB AAT TO ANNEX C TO APPENDIX A





TOP CRET

A-C-AAf-1

fat AAf to Annex C to Appendix A



TOP CRET

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 39.26	i
2. <u>D.E. NUMBER:</u> 617-0624	ટ
3. IDENTIFICATION: Dong Cao Thon Army Barracks	3
4. DATE OF INFORMATION: 12 July 1965	4
DATE OF TIG: TO March 1966 DATE OF PHOTOGRAPHY: 3 June 1965	٠,
DATE OF PHOTOGRAPHY: 3 June 1965	6
DATE OF INTELLIGENCE REVIEW: 4 June 1965	7
5. LOCATION: 17-50-28N/106-05-10E,UTM XE 150731, 38 NM WNW of Dong Hoi, approximately 0.8 NM SSE of Dong Cao Thon.	8
6. DESCRIPTION: This active military installation com-	10
prises 4 separate areas containing approximately 153 major	11
outldings, including bl barracks. There are two 6-position	12
AAA Sites and support area in the open area between the	13
central and southeastern barracks complexes. There appears to	14
oe several strongpoints, bunkers and personnel and communica-	15
tion trenches that have been prepared in and around the four	15
areas. 5,500 troops, 2.7% of targeted capacity.	17
7. SIGNIFICANCE: No known military units are identified	- 0
with this area, but size and layout indicate a full brigade	18
could be located here (5,500 capacity). Yen Duc Militia	19
Training Center has been reported located in this district	21
(Tuyen Hoa). Location is only 12 NM SE of where Route 12	22
turns S to Mu Gia Pass.	23
8. TARGET ENVIRONMENT: Approximately 0.6 NM S of the Rao	
Nay and separated from it by an eroded limestone ridge, the	21
target lies along the abandoned railroad between Dong Hoi and	26
Vinh. It is about 18 NM NE of the Laos border. Area on both	27
sides of the narrow Rao Nay valley consists of steep, heavily	6
wooded limestone ridges.	25
-	• >
9. DEFENSE ENVIRONMENT: There are two inactive light	33333
(14.5 MM - 37 MM) AAA sites containing 6 unoccupied positions	31
within the target area. Target is within the range of Vinh	32
Son and Dong not Ew radars. Heavy small arms fire can be	3
anticipated from operational troops in the area.	34
10. DAMAGE OBJECTIVE: Structural damage to barracks and	35
support buildings with accompanying damage to supplies and	35
personnel casualties. Damage level is 30 per cent.	37
11 FPPFCT ON MINE 1411 moduce cumpant of MIN Course	
11. EFFECT ON NVN: Will reduce support of NVN forces to Viet Cong as well as reduce forces available for defense of DMZ.	38
	34
12. RECUPERABILITY: Barracks area could probably be opera-	40
tional in 12 to 24 hours on a reduced operational program.	Li:
During this current monsoon season, supplies and equipment	43
destroyed may not be replaced for from 5 - 10 days.	4



TOP SCRET

MUSIK IK T

13 COLLAME	TAI DAMAGE .			·				
		Insignificant	•		1			
14. RECOMMENDED WEAPONS AND SORTIES:								
a. This target complex is comprised of four areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.								
(1) In order to achieve a damage level of 30% weapons/sorties required over target:								
Weapon:	250# Snakeye	250# BCIB	500# BOMB	750# BUIB				
Area A	67/6	90/8	46/5	27/5	10			
Area B	81/7	104/9	54/6	32/5	11			
Area C	155/13	182/15	94/10	55/9	12			
Area D	99/8	121/10	62/7	37/6	13			
Totals:	402/34	497/42	256/28	151/25	14			
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:								
	512/42	608/51	312/34	184/31	17			
(3) In order to achieve a damage level of 70% weapons/sorties required over target:								
Weapons:	250# SNAKEYE	250# BOMB	500# BOMB	750# BOMB				
Area A	226/19	302/25	155/17	91/15	20			
Area B	273/23	350/29	182/20	108/18	21			
Area C	522/43	613/51	317/35	185/31	22			
Area D	334/28	407/34	209/23	125/21	23			
Totals:	1355/113	1672/139	863/95	509/85	24			
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:								
	1650/138	2042/170	1050/112	620/104	27			
15. PROBABILITY OF ACHIEVING DAMAGE LEVEL: 50%								

TOP CRET



TAB AAG TO ANNEX C TO APPENDIX A

TARGET NO. 39.27







1. TARGET NUMBER: 39.27	
	1
2. BE NUMBER: 617-0077	2
3. <u>IDENTIFICATION</u> : Vinh Army Barracks NNE	3
4. DATE OF INFORMATION: 25 June 1965 DATE OF TIS: 30 June 1965	4 5
5. LOCATION: 18-43-44N, 105-41-28E, UTM WF 729711, approximately 5 NM NE of Vinh, approximately 1650 yards E of Vinh Airfield.	6 7 8
6. DESCRIPTION: Vinh Army Barracks NNE covers 50 acres enclosed with fencing and contains 32 barracks, 4 mess halls, 1 administration building,2 doubly-bay warehouses, and approximately 6 support structures. There is a drill field in the center of the facilities and a small possible training area is located beyond the fence at the northernmost end of the installation. Not all buildings are within the 2 designated JCS target locations. This barracks area can accommodate up to 2,500 troops, 2.3 percent of target's capacity.	9 10 11 12 13 14 15 16
7. SIGNIFICANCE: Probably location of an AAA regiment or of one of two independent infantry regiments assigned to the defense of Vinh and Vinh Airfield.	18 19 20
8. TARGET ENVIRONMENT: This area lies in the low deltaic coast to the N and NE of Vinh, only a few feet above sea level. The area is heavily cultivated and long rows of paddy fields are dotted with clusters of farm villages.	21 22 23 24
9. DEFENSE ENVIRONMENT:	25
a. Within 2 NM of the target are 2 active and 3 inactive 57mm/85mm sites (14 occupied/24 unoccupied positions). There are also 3 active and 2 inactive 14.5mm/37mm sites (12 occupied and 8 unoccupied positions). Total AAA defenses in the Vinh area include 16 active 57/85mm sites (105 positions occupied, 17 unoccupied).	26 27 28 29 30 31
b. Radar installations in the area include EW, HF and FC radars.	32 33
c. Heavy small arms and A/W fire may be expected from 2 infantry regiments and other support troops carried in the area.	34 35 36
10. <u>DAMAGE OBJECTIVE</u> : Structural damage to buildings with resulting loss of personnel and equipment. Damage level is 30 percent.	37 38 39
11. EFFECT ON DRV: Reduce effectiveness of Vinh and Vinh Airfield defenses by inflicting casualties on forces assigned to defense of the area.	40 41 42
12. RECUPERABILITY: Barracks area could probably be operational at a reduced level in 12 to 24 hours. Replacement of assualties and destroyed equipment would take 3-15 days depending on priorities.	43 44 45 46

TOF SCREE

Tab AAg to Annex C to Appendix A





								•	
13.	COLLA	TERAL DAMAG	GE:	Insigni	ficar	nt.			1
14.	RECOM	MENDED WEAT	PONS	AND SOR	TIES:	:			2
Wea	a. Th	is target	compl	ex is c	ompri	Lsed of	two a	reas.	
pre	scrib also		requ weapo	ns/sort	acni les i	required	over	ge level the target	34 56 7
	(1 Weapor) In order ns/sorties	to a requi	chieve a	a dan er ta	nage lev irget:	el of	30 percent	8 9
Wea	pon:	250# Snakeye	or	250# <u>Bonय</u>	or	500# BOMB	or	750// BOMB	
Are	a A	104/9		144/12		74/8		44/7	10
Are	a B	82/7		121/10		62/7		37/6	11
Tot	als:	186/16		265/22		136/15		81/13	12
	(2) achie) Weapons/s ve "over ta	ortic rget	s opera	ation remen	ally rest	quire abov	d to	13 14
		226/20		323/		169/19		100/16	15
,	(3) weapor	In order	to ac requi	chieve a	dam er ta	nage leve rget:	el of	70 percent	16 17
Wea	pon:	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Are	a A	350/29	1	185/40	•	250/28		148/25	13
Are	a B	276/23	L	108/34		209/23		125/21	19
Tota	als:	626/52	8	93/74		459/51		273/46	20
•	(4) over"	Weapons/s target" re	ortie quire	s opera	tion lown	ally red	quire	d to achieve	21 22
		758/63	10	90/91		560/61		333/56	23
15. 1	PROBAE	SILITY OF A	CHIEV	ING DAM	AGE	LEVEL:	50%		24

TAB AAN TO ANNEX C TO APPENDIX A TARGET NO. 39.28



CRET sed 31 August 1905)



the state of the s	
1. TARGET NUMBER: 39.28	1
2. <u>B.E. NUMBER</u> : 617-0324.	2
3. IDENTIFICATION: Bai Thuong Army Barracks NE	3
4. DATE OF INFORMATION: 12 May 1965 DATE OF TIS: 13 July 1965	4 5
5. LOCATION: 19-54-31N 105-27-53E, UTM WH 490013, 4 NM ENE of RJ 15/118 at Bai Thuong. 18.8 NM WNW of Thanh Hoa.	6 7
6. DESCRIPTION: This target area in general comprises 8 major military areas and other small clusters of barracks and support type buildings. It includes the Hai Trach ammo storage area (a comparatively small ammo supply area for brigade requirements only) ard buildings and training areas for approximately 3 battalions together with support troops. Photographic holdings indicate the beginning of airfield construction with probable MIG capability in the center of this complex.	8 9 10 11 12 13 14 15 16
7. SIGNIFICANCE: This area contains elements of the 330th Infantry Brigade. Collateral information locates 2 infantry battalions and an engineer battalion at this location. Photography shows an airfield under construction.	17 18 19 20
8. TARGET ENVIRONMENT: Target is located in the flat, well-populated lowland of the Song Chu valley. There are many canals for paddy field irrigation and drainage in the immediate area. 8 NM W are wooded ridges trending generally NNW and SSE and rising to 1600 ft. Gulf of Tonkin is 28 NM E.	21 22 23 24 25
9. DEFENSE ENVIRONMENT: There are no known AAA active positions in the target area. There is an inactive possible 14.5mm/37mm site with 8 unoccupied positions. There are training trenches and unoccupied HMG sites and heavy small arms fire will be encountered from operational troops in the area. EW radars are 28 KM E at My Duc. Both light and medium AAA positions are occupied at Thanh Hoa, 19 NM SE.	26 27 28 29 30 31 32
10. DAMAGE OBJECTIVE: Structural damage to barracks and support buildings with accompanying loss of equipment and personnel casualties. Damage level is 30%.	33 34 35
11. EFFECT ON DRV: Reduction of troop training capability in support of South Vietnam penetration and delay in airfield construction.	36 37 38
12. RECUPERABILITY: Area could probably be operational on a reduced level in 24 hours. Loss of personnel and engineer equipment would delay airfield construction pending replacement, probably up to 30 days.	39 40 41 42
13. COLLATERAL DAMAGE: Insignificant.	43
14. RECOMMENDED WEAPONS AND SORTIES:	44
a. This is a large target complex comprised of eight areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage	45 46 47
TOP CRET	

Tab AAh to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

target is	northed, to Laise shown	tal weapons/so	rtle: requir	red over the	1
(1) weapor	In order to	achieve a da equired over t	mage level carget:	or 30%	3
Weapon:	250# SNAKEYE	250# or <u>BOMB</u> o	500# BOMB or	750# BOMB	
Area A	204/17	237/20	122/13	71/12	5
Area B	143/12	170/14	88/10	51/8	6
Area C	59/5	80/7	41/5	24/4	7
Area D	87/7	116/10	60/7	35/6	8
Area E	304/25	357/30	183/20	107/18	9
Area P	127/11	162/13	85/9	49/8	10
Area G	95/8	122/10	64/7	19/3	11
Area H	32/3	63/5	33/4	19/3	12
Totals:	1051/88	1307/109	676/75	393/65	13
(2) achiev	Weapons/some "over targ	rties operatio get" requireme	nally requirent shown abo	red to	14 15
	1281/107	1593/133	824/92	479/80	16
1-1					
(3) weapon	In order to	achieve a da equired over t	mage level o arget:	r 70%	17 18
(3) weapon	In order to as/sortles re 250# SNAKEYE	equired over t	mage level of arget: 500# r BOMB or	750#	17 18
weapon	as/sorties re 250#	equired over t 250#	arget: 500#	750#	17 18
weapon	250# SNAKEYE	equired over t 250# or <u>BOMB</u> o	500# BOMB or	750# BOMB	
Weapons:	250# 250# <u>SNAKEYE</u> 687/57	250# or <u>BOMB</u> o 799/67	500# F <u>BOMB</u> or 412/96	750# <u>BOMB</u> 240/40	19
Weapons: Area A Area B	250# 250# <u>SNAKEYE</u> 687/57 482/40	250# or <u>BOMB</u> o 799/67 573/48	500# r <u>BOMB</u> or 412/96 297/33	750# BOMB 240/40 172/29	19 20
Weapons: Area A Area B Area C	250# 250# <u>SNAKEYE</u> 687/57 482/40 199/17	250# or <u>BOMB</u> o 799/67 573/48 270/22	500# r 500# or 80MB or 412/96 297/33 138/15	750# BOMB 240/40 172/29 81/13	19 20 21
Weapons: Area A Area B Area C Area D	250# 250# <u>SNAKEYE</u> 687/57 482/40 199/17 1025/85	250# or <u>BOMB</u> o 799/67 573/48 270/22 1205/100	500# F BOMB or 412/96 297/33 138/15 617/69	750# BOMB 240/40 172/29 81/13 360/60	19 20 21 22
Weapons: Area A Area B Area C Area D Area E	250# 250# <u>SNAKEYE</u> 687/57 482/40 199/17 1025/85 428/36	250# or <u>BOMB</u> o 799/67 573/48 270/22 1205/100 542/45	500# F 500# F 80MB or 412/96 297/33 138/15 617/69 286/32	750# BOMB 240/40 172/29 81/13 360/60 165/27	19 20 21 22 23
Weapons: Area A Area B Area C Area D Area E Area F	250# <u>SNAKEYE</u> 687/57 482/40 199/17 1025/85 428/36 428/36	250# or <u>BOMB</u> o 799/67 573/48 270/22 1205/100 542/45 542/45	500# F 500# F 80MB or 412/96 297/33 138/15 617/69 286/32 286/32	750# BOMB 240/40 172/29 81/13 360/60 165/27	19 20 21 22 23 24
Weapons: Area A Area B Area C Area D Area E Area F Area G	250# SNAKEYE 687/57 482/40 199/17 1025/85 428/36 428/36 320/27	or 250# or 80MB o 799/67 573/48 270/22 1205/100 542/45 542/45 410/35	500# F 500# BOMB or 412/96 297/33 138/15 617/69 286/32 286/32 216/24 111/12	750# BOMB 240/40 172/29 81/13 360/60 165/27 165/27 125/21 64/11	19 20 21 22 23 24 25
Weapons: Area A Area B Area C Area D Area E Area G Area G Area H Totals	250# SNAKEYE 687/57 482/40 199/17 1025/85 428/36 428/36 320/27 108/9 351/2/205	or 250# or 80MB o 799/67 573/48 270/22 1205/100 542/45 542/45 410/35 212/18	500# F 500# F 80MB or 412/96 297/33 138/15 617/69 286/32 286/32 216/24 111/12 2279/252	750# BOMB 240/40 172/29 81/13 360/60 165/27 165/27 125/21 64/11	19 20 21 22 23 24 25 26 27
Weapons: Area A Area B Area C Area D Area E Area G Area G Area H Totals	250# SNAKEYE 687/57 482/40 199/17 1025/85 428/36 428/36 320/27 108/9 351/2/205	250# or 80MB o 799/67 573/48 270/22 1205/100 542/45 542/45 410/35 212/18 4402/367	500# F 500# F 80MB or 412/96 297/33 138/15 617/69 286/32 286/32 216/24 111/12 2279/252	750# BOMB 240/40 172/29 81/13 360/60 165/27 165/27 125/21 64/11	19 20 21 22 23 24 25 26 27 28

TOP CRET

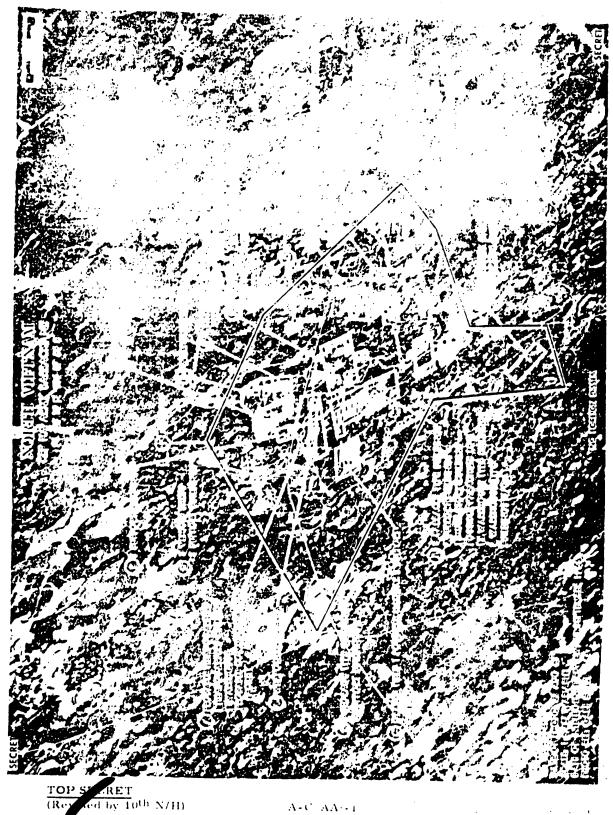
A-C-AAh-3

Tab AAh to Annex C to Appendix A



TAB AACTO ANNEX COTO APPEARING \mathbb{R}^{n_1}

TARGET NO. 9-24



256

1.	TARGET NUME	ER: 39.29	11,1,11,11	المستعددة	A Comment	,	
2.	BE NUMBER:	616-0467			The state of the s	•	1
			•• •••				2
3.	IDENTIFICAT	TION: Kep	Ha Army Bki	NE			3
4.	DATE OF INF DATE OF PHO DATE OF INT	1 24 Augu	st 1966 22 August	1965			4 5 6 7
5. 2 NM NW	LOCATION: of Kep Ha	21-23-10N, Airfield.	106-37-568	. utm xj 69	6661, 1 NM NE	of Kep Ha,	8 9
ters ar probabl 4 revet buildin	e and comtaines, charact ea, charact e communica eted warehou	ins approximations additions areastions areastions areastions areastions areastions areastions of battal	mately 100 ministrations, a helipo rs, and adm lion-size o	buildings. on and support with granistration	brigade or a Included an ort buildings aded field an a, barracks a Barracks cap	nd hangars,	10 11 12 13 14 15 16
is supp has rec	orted by AA ently been	A and AW de improved as	efenses. I nd made ope	ts proximi	tive training ty to Kep Ha lends credenc eneral area.	A/F. which	17 18 19 20
Red Riv	er Delta.	The surrous	nding terri	tory is he	avily cultive	reast of the steed and this target.	21 22 23
9.	DEFENSE ENV	IRONMENT:					24
(17.5NM)	a. Five SA) of the ta M distant.	M sites hav	ve been ide 21 addition	entified with	thin SA=2 mis es have been	ssile range identified	25 26
nearest	b. There is active sit mately 5 NM	e is a 6-pc	ified AAA a	ectivity in eccupied si	the Kep Ha a te in Dong Gi	erea. The	27 28 29
forces	c. Moderat and troops	e HMG and a from the ba	small arms arracks.	fire is an	ticipated fro	om security	30 31
and sup	DAMAGE OBJE port and st el. Damage	orage struc	ctures with	ion is str	uctural damag ing casualtie	ge to barracks, es to	32 33 34
tempora	EFFECT ON N rily reduce is installa	the combat	e of 30% wo	uld disrup y of the m	t training acilitary unit	ctivities and sassociated	35 36 37
_					The late of the la	We have the second	
OP E	CRET		A-C-A	A1-2	100 M	Tab AA1 to Annex C to Appendix A	
		(Revised	1 by 10th	Note to	Holders)		
•	- Manage	•	•	Page 4			



n the ar	modate disp and suppl ea within	the same ti	ime frame.	d from ot	ner milit	Lary II	nstallations	5
	None	AMAGE 1			.::			7
- . b.			No.	Como				8
	- · · · ·			Casual				9
	Target A	•	scent Area	. ^		•	ent Area	10
		iv Mil	Civ	MII	Clv	Mil	Civ	11
	3200	0 800		192 ^	0	8	0	12
		ies estimat			alert co	nditio	ns	13
4. RE	COMMENDED	WEAPONS AN	SORTIES:					14
been co damage	en delinea imputed for	cach area	spons appl . To show	ication.	Weapona rt requi	and so	. Nine areas orties have achieve the the target	15 16 17 18 19
re	(1) In or equired ove	der to ach: r target:	ieve a dam	age level	of 30%,	weapor	ns/sorties	20 21
		250#	250	•	500#			
N PON		SNAKEYE	of BOM	В от	BOMB	or	750# BOMB	
-,	(100×900)					or		22
ea A-1	(100×900) (250×350)	SNAKEYE	of BOM	7	BOMB	or	вомв	22
a A-1		28/2 27/2	of BOM 79/	7	BOMB 41/5	or	BOMB 24/4	23
a A-1 a D	(250x350)	28/2 27/2	of BOM 79/ 48/	7 4 11	BOMB 41/5 25/3	or	BOMB 24/4 15/3	23 24
a A-1 a D a F a G-1	(250x350) (450x1100)	28/2 27/2 103/9	of BOM 79/ 48/ 137/	7 4 11 7	BOMB 41/5 25/3 71/8	or	BOMB 24/4 15/3 42/7	23 24 25
a A-1 a D a F a G-1	(250×350) (450×1100) (500×500)	28/2 27/2 103/9 60/5	of BOM 79/ 48/ 137/ 80/	7 4 11 7	BOMB 41/5 25/3 71/8 41/4	or	BOMB 24/4 15/3 42/7 24/4	23 24 25 26
ea A-1 ea D ea F ea G-1 ea H	(250x350) (450x1100) (500x500) (500x750)	28/2 27/2 103/9 60/5 82/7	of BOM 79/ 48/ 137/ 80/ 107/	7 4 11 7 9	BOMB 41/5 25/3 71/8 41/4 55/6	or	BOMB 24/4 15/3 42/7 24/4 32/5	23 24 25 26 27
ea A-1 ea D ea F ea G-1 ea H ea J	(250×350) (450×1100) (500×500) (500×750) (300×600)	28/2 27/2 103/9 60/5 82/7 44/4	of BOM 79/ 48/ 137/ 80/ 107/ 70/	7 4 11 7 9 6	BOMB 41/5 25/3 71/8 41/4 55/6 36/4	or	BOMB 24/4 15/3 42/7 24/4 32/5 21/4	23 24 25 26 27 28
a A-1 a D a F a G-1 a H a J a M	(250×350) (450×1100) (500×500) (500×750) (300×600) (200×700)	28/2 27/2 103/9 60/5 82/7 44/4 50/4	of BOM 79/ 48/ 137/ 80/ 107/ 70/ 98/	7 4 11 7 9 6 8 8	BOMB 41/5 25/3 71/8 41/4 55/6 36/4 98/11	or	BOMB 24/4 15/3 42/7 24/4 32/5 21/4 98/16	23 24 25 26 27 28
a A-1 a D a F a G-1 a H a J a M a P	(250×350) (450×1100) (500×500) (500×750) (300×600) (200×700) (500×550)	28/2 27/2 103/9 60/5 82/7 44/4 50/4 65/5	of BOM 79/ 48/ 137/ 80/ 107/ 70/ 98/ 86/	7 4 11 7 9 6 8 7 7	BOMB 41/5 25/3 71/8 41/4 55/6 36/4 98/11 44/5	or	BOMB 24/4 15/3 42/7 24/4 32/5 21/4 98/16 26/4	23 24 25 26 27 28 29
a A-1 a D a F a G-1 a H a J a M a P a Q tals	(250x350) (450x1100) (500x500) (500x750) (300x600) (200x700) (500x550) (150x300)	28/2 27/2 103/9 60/5 82/7 44/4 50/4 65/5 17/2 476/40	of BOM 79/ 48/ 137/ 80/ 107/ 70/ 98/ 41/ 746/ operation	7 4 11 7 9 6 8 7 3 62 ally requ	BOMB 41/5 25/3 71/8 41/4 55/6 36/4 98/11 44/5 21/2 432/48		BOMB 24/4 15/3 42/7 24/4 32/5 21/4 98/16 26/4 13/2 295/49	23 24 25 26 27 28 29 30 31 32
ea D ea F ea G-1 ea H ea J ea M ea P ea Q tals	(250×350) (450×1100) (500×500) (500×750) (300×600) (200×700) (500×550) (150×300)	28/2 27/2 103/9 60/5 82/7 44/4 50/4 65/5 17/2 476/40	of BOM 79/ 48/ 137/ 80/ 107/ 70/ 98/ 41/ 746/ operation hown above	7 4 11 7 9 6 8 7 3 62 ally requ	BOMB 41/5 25/3 71/8 41/4 55/6 36/4 98/11 44/5 21/2 432/48	a chi ev	BOMB 24/4 15/3 42/7 24/4 32/5 21/4 98/16 26/4 13/2 295/49	23 24 25 26 27 28 29 30 31 32 31
ea A-1 ea D ea F ea G-1 ea H ea J ea M ea P ea Q tals	(250x350) (450x1100) (500x500) (500x750) (300x600) (200x700) (500x550) (150x300)	28/2 27/2 103/9 60/5 82/7 44/4 50/4 65/5 17/2 476/40 ons/sorties irements statements sta	of BOM 79/ 48/ 137/ 80/ 107/ 70/ 98/ 86/ 41/ operation hown above 910 ieve a dam	7 4 11 7 9 6 8 7 3 62 ally required by the series of the s	BOMB 41/5 25/3 71/8 41/4 55/6 36/4 98/11 44/5 21/2 432/48 sired to 527/59	achiev weapo	BOMB 24/4 15/3 42/7 24/4 32/5 21/4 98/16 26/4 13/2 295/49 e **over 363/00	23 24 25 26 27 28 29 30 31

Tab AA1 to Annex C to Appendix A

(Revised by 10th Note to Holders) .

WEAPON	250# Snakeye (250# or BOMB	500# or BOMB or	750# BOMB	
Area A	-1 95/8	266/22	138/15	81/13	ı
Area D	91/8	162/14	85/9	51/8	2
Area F	347/29	462/38	240/27	142/24	3
Area G	-1 202/17	270/23	138/15	81/14	4
Area H	276/23	360/30	185/21	108/18	5
Area J	148/12	236/20	121/13	71/12	6
Area M	169/14	330/27	330/37	330/55	7
Area P	220/18	290/24	148/17	88/15	8
Area Q	58/5	138/12	71/8	44/7	9
Totals	1606/134	2514/210	1456/162	996/166	10
	(4) Weapons/sorties op requirements shown above	perationally reques	quired to achieve	"over target"	11 12
	1959/164	3066/256	1776/198	1215/203	13
15.	PROBABILITY OF ACHIEVIN	G DESIRED DAMA	GE LEVEL: 50%		14

TOP SECRET

A-C-AA4 L

Tab AA1 to Annex C to Appendix A

(Revised by 10th Note to Holders)





1. TARGET NUMBER: 39.3	1
2. BE NUMBER: 617-0667	2
3. IDENTIFICATION: Mu Gia Pass Army Supply and Staging Point.	3 4
4. DATE OF INFORMATION: 11 February 1965 DATE OF TIS: 23 June 1965 DATE OF PHOTOGRAPHY: 11 February 1965 DATE OF INTELLIGENCE REVIEW: 11 February 1965	5678
5. LOCATION: 17-40-15N 105-46-10E, UTM WE 815542. On the NE side of Route 12, through Mu Gia Pass from Laos into North Vietnam.	9 10 11
6. DESCRIPTION: Located near the small town of Bai Dinh (17 44N/105 45E) North Vietnam and approximately 13 NM NNE of Ban Pham Hop Airfield, Laos. This military complex contains 8 barracks-type buildings and one large administration/barracks-type building. The total capacity is approximately 1,000, but permanent capacity is estimated at about 250. There are also 8 storage buildings and two support structures within the area.	12 13 14 15 16 17 18 19
7. SIGNIFICANCE: Mu Gia Pass has been considered a primary point of entry Into Laos from North Vietnam for supplies and troops destined to support the Viet Cong effort in South Vietnam since the Pathet Lao gained control of this area in 1961. The pattern of truck traffic, the construction of the military camp, and the efforts to improve the road emphasize the importance of this installation as a way-station and control point astride a vital road link.	01234567 224567
8. TARGET ENVIRONMENT: The border control point is located approximately one-half NM N of the geographic boundary separating North Vietnam and Laos. Sparsely populated areas on the Laotian side of the border area are located 6 to 10 NM wof the border. The surrounding terrain is mountainous with elevations ranging from 450 to 1100 meters. Vegetation cover is quite dense, and off-road movement difficult.	3901234
9. DEFENSE ENVIRONMENT: At the S end of target area are two unoccupied 14.5/37mm AAA sites. There are also several probable AW positions in the area. Personnel trenches connect the main buildings with AW strongpoints and AAA sites. Three unoccupied 14.5/37mm sites and two unoccupied AW sites are approximately 4.5 NM N near Don Bai Dinh. There is no known radar in the area and no concentration of operational personnel. (DOI: 5 May 1965)	33333444
10. DAMAGE OBJECTIVE: Destruction of this installation would deny the Viet Cong a vital supply and infiltration route into South Vietnam.	43 44 45
11. EFFECT ON DRY: Destruction of this installation would disrupt the flow control of North Vietnam traffic into Laos, and hence hinder DRV support to the campaign in both Laos and	46



A-C-AB-2 Tab AB to
Annex C to
Appendix A
(Revised by 6th Note to Holders - 25 March 1966)

TOP ECRET

12. RE0 30% damage	CUPERABILITE loss coul	TY: T	emporar provide	y acc d wit	ommodation hin 7 days.	to replace a	5
13. COLLATERAL DAMAGE: Insignificant.						3	
14. RE	COMMENDED V	EAPON	S AND S	ORTIE	<u>s</u> :		4
This is a large target complex comprised of two areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.						567239	
sor	(l) In orde ties requir	er to ed ov	achieve er targ	зda et:	mage leve of	30% weapons/	10 11
WEAPON	250# SNAKEYE	or	500# BOMB	or	750# BOMB or	1000# BOMB	
Area A	32/3		40/5		24/4	21/7	12
Area B	37/3		31/3		18/3	16/5	13
Totals	69/6		71/8		42/7	37/12	14
ach	(2) Weapons Leve "over	s/sort targe	ies ope t" requ	ratio ireme	nally requir	red to ove:	15 16
	84/7		87/10		51/9	45/15	17
wea	(3) In orde	er to es req	achieve uired o	a da ver t	mage level arget:	or 70%	18 19
WEAPON	250# SNAKEYE	or	500# BOMB	or	750# BOMB or	1000# BOMB	
Area A	108/9		135/15		81/14	71/24	20
Area B	125/10		105/12		61/10	54/18	21
Totals	233/19		240/27	÷.,	142/24	125/42	22
ach	(4) Weapons ieve "over	s/sort targe	ies ope t" requ	ratio ireme	nally requi	red to ove:	23 24
	284/23		292/33		173/29	152/51	25
15. PRO	BABILITY OF	ACHI	EVING D	ESIRE	D DAMAGE LE	VEL: 50%.	26

TOP LCRET

A-C-AB-3

Tab AB to Annex C to Appendix A



TAB ADA TO ANNEX C TO APPENDIX A



A-C-ABa-1

Tab ABa to Annex C to Appendix A



5. LOCATION: 18-43-22N 105-29-M/E UTM WF 520709, one NM north of Xom Trung Hoa, approximately 13 NM WNW of Vinh on the Ca River. 6. DESCRIPTION: This active military site contains approximately 60 buildings including 18 barracks and barracks/support-type structures, 16 storage buildings, 4 mess-halls and a number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an estimated storage capacity of about 3700 M.T. The other storage facilities have a capacity of about 95,000 sc. ft. Trenching is evident and many AW sites, revetments, and signs of training are in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which serve the 324 Infantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	
3. IDENTIFICATION: Xom Trung Hoa Barracks and Ammunition 4. DATE OF INFORMATION: 24 May 1965 5. LOCATION: 18-43-22N 105-29-46E UTM WF 520709, one NM north of Xom Trung Hoa, approximately 13 NM WNW of Vinh on the Ca River. 6. DESCRIPTION: This active military site contains approxi- type structures, 16 storage buildings, 4 mess-halls and a number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an esti- mated storage capacity of about 3700 M.T. The other storage 1 facilities have a capacity of about 95,000 sc. ft. Trenching 1 is evident and many AW sites, revetments, and signs of training 1 are in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which serve the 324 In- fantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	1
4. DATE OF INFORMATION: 24 May 1965 5. LOCATION: 18-43-22N 105-29-46E UTM WF 520709, one NM north of Xom Trung Hoa, approximately 13 NM WNW of Vinh on the Ca River. 6. DESCRIPTION: This active military site contains approxitype structures, 16 storage buildings, 4 mess-halls and a number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an estimated storage capacity of about 3700 M.T. The other storage facilities have a capacity of about 95,000 sc. ft. Trenching is evident and many AW sites, revetments, and signs of training are in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which serve the 324 Infantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	2
5. LOCATION: 18-43-22N 105-29-16E UTM WF 520709, one NM north of Xom Trung Hoa, approximately 13 NM WNW of Vinh on the Ca River. 6. DESCRIPTION: This active military site contains approximately 60 buildings including 18 barracks and barracks/support-1 type structures, 16 storage buildings, 4 mess-halls and a number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an estimated storage capacity of about 3700 M.T. The other storage facilities have a capacity of about 95,000 sc. ft. Trenching is evident and many AW sites, revetments, and signs of training lare in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which scree the 324 Infantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	34
6. DESCRIPTION: This active military site contains approximately 60 buildings including 18 barracks and barracks/support-1 type structures, 16 storage buildings, 4 mess-halls and a number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an estimated storage capacity of about 3700 M.T. The other storage facilities have a capacity of about 95,000 sc. ft. Trenching is evident and many AW sites, revetments, and signs of training lare in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which serve the 324 Infantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	5
number of miscellaneous administration and support-type buildings. Also included in the approximate total are 6 revetted probable ammunition storage buildings with an esti- mated storage capacity of about 3700 M.T. The other storage facilities have a capacity of about 95,000 sc. ft. Trenching is evident and many AW sites, revetments, and signs of training lare in and around the installation. 7. SIGNIFICANCE: This installation is located between Vinh and Vinh Son military complexes which serve the 324 In- fantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	7 8 9
Vinh and Vinh Son military complexes which serve the 324 Infantry Bde. The site has access to Routes 7 and 8, both of which are main avenues for DRV support for operations in Laos.	01234567819
	20 21 23
the base of several wooded hills which in turn are surrounded by intensive cultivation. The six buildings groups are inter-	24 25 26 27
9. DEFENSE ENVIRONMENT:	26
target (4, possibly 8, occupied/59 unoccupied 14.5mm/37mm positions, 40 unoccupied 57mm/85mm positions and 4 possibly	29 30 31 32
	33 34
to storage buildings and accompanying damage to contents and	35 36 37 38
to the ammunition storage, would probably have considerable effect on supply to military units in the Vinh Military com-	39 40 41 42 43

TOP CRET

A-C-ABa-2

Tab ABa to Annex C to Appendix A





12. RECUPERABILITY: With 30% destruction, the barracks portion of the target could probably resume operations within 24 hours since adjacent areas could be used for field billeting. Replacement of personnel and supplies could be accomplished within 24 hours since the target has road access to several other military installations in this general area. Replacement of stored supplies could be accomplished within 2 - 5 days, depending upon availability and replenishment priorities. 13. COLLATERAL DAMAGE: Insignificant. 14. RECOMMENDED WEAPONS AND SORTIES:						
This is a large target complex comprised of six areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.						
(1) weapoi) In order to as/sorties re	achieve a quired over	damage level target:	l of 30%	16 17	
Weapon:	250# Snakeye	or BOMB	500# or <u>BOMB</u>	750# or <u>BOMB</u>		
Area A	15/1	36/3	36/4	36/6	18	
Area B	6/1	20/2	20/2	20/3	19	
Area C	36/3	70/6	36/4	21/4	20	
Area D	25/2	46/4	24/3	14/2	21	
Area E	67/6	104/9	54/6	32/5	22	
Area F	163/13	200/16	102/11	60/11	23	
Totals:	312/26	476/40	272/30	183/31	24	
(2 over") Weapons/sor target" requ	ties operat irement sho	ionally requ wn above:	uired to achieve	25 26	
	380/32	580/48	332/37	223/37	27	
(3 weapo) In order to ns/sorties re	achieve a equired over	damage leve:	1 of 70%	29 29	
Weapon:	250# SNAKEYE	250# or <u>BOMB</u>	500# or <u>BOMB</u>	or BOMB		
Area A	51/4	122/10	122/14	122/20	30	
Area B	21/2	68/6	68/7	68/11	31	
Area C	122/10	236/20	122/14	71/12	32	
Area D	85/7	155/13	81/9	47/8	33	
Area E	226/19	351/29	182/20	108/18	34	
Area F	550/46	674/56	344/38	203/34	35	
Totals:	1055/88	1606/134	919/10	2 619/103	36	

TOP SCRET

A-C-ABa-3

Tab ABa to Annex C to Appendix A





(4) Weapons/sorties operationa achieve "over target" requirement	illy required to)]
1286/107 1958/163		55/126 3
15. PROBABILITY OF ACHIEVING DAMAGE I	EVEL: 50%	,

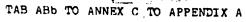
TOP LCRET

The second of the second secon

Λ-C-ABa-4

Tab ABa to Annex C to Appendix A







TOP CRET

A-C-ABb-1

Tab ABb to Annex C to Appendix A





1. TARGET NUMBER: 39.32	1
2. <u>BE NUMBER</u> : 617-0723	2
3. IDENTIFICATION: Xom Bang Army Barracks E	3
4. DATE OF INFORMATION: 2 June 1965 DATE OF TIS: 16 July 1965	4
5. LOCATION: 17-06-58N 106-49-15E, UTM XD 936931, 5 nm E of Xom Bang, 1 nm SSE of Phong Tieu.	5
6. DESCRIPTION: This installation covers approximately 116,400 square yards and contains 6 barracks, 2 storage buildings, 1 administration building, a mess hall and several miscellaneous support structures. Personnel capacity of the barracks is approximately 850. There are numerous personnel trenches with firing bays and AW positions in the immediate and surrounding areas.	7 9 10 11 12 13
7. SIGNIFICANCE: These facilities are serviced by two roads, one of which connects with Route 1, 3.7 nm to the NE. Xom Bang Ammunition Depot (BE 617-0222) is about 4 nm to the northeast. Military elements at this site could provide training and support to personnel infiltrating the RVN and Laos.	14 15 16 17 18
8. TARGET ENVIRONMENT: These facilities are located in an area of low wooded hills interspersed with cultivated fields and small civilian settlements. The Song Ngo Giang skirts the northern edge of the site and there are numerous roads and trails in the area.	19 20 21 22 23
9. <u>DEFENSE ENVIRONMENT</u> :	24
a. There are 6 known inactive AAA sites in the general Xom Bang area (15 unoccupied 14.5mm/37mm positions and 14 unoccupied HMG positions).	25 26 27
b. This installation falls within the defenses of the DMZ Hq and is probably supported by elements generally associated with the DMZ complex, i.e. the 270th Independent Infantry Regiment.	28 29 30 31
c. Radar at Vinh Linh, Lang Mo and Dong Hoi could provide EW for this installation.	32 33
10. <u>DAMAGE OBJECTIVE</u> : Personnel casualties and destruction of facilities. Damage criterion is structural damage to barracks and support buildings with accompanying casualties to personnel and equipment. Damage level is 30 percent.	34 35 36 37
11. EFFECT ON DRV: Damage to this installation would temporarily disrupt probable training activities and possibly delay for a short time infiltration movements which might depend	38 39 40 41

TOP STORET

A-C-ABb-2

Tab ABb to Annex C to Appendix A

TOP ACRET



•								
12. RECUP operations is ample ro- and materia	OM TOP ILES	ioly :	resume i Neting	withii Ra	n 24 ho	urs s	ince there	1 2 3 4
13. COLLATERAL DAMAGE: Insignificant.								
14. RECOM	MENDED WEAR	ONS	AND SOR	FIES:				6
a. In order to achieve the desired damage leve, weapons/ sorties required over target:								7
Weapon	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
	103/9		128/11		66/7		39/7	9
b. Wes "over ta	apons/sorti rget" requi	es op remer	peration	nally wn abo	require	ed to	achieve	10 11
	126/11		156/13		80/9		48/8	12
c. In weapons/	order to a sorties req	ichie Juire	ve desin	red da target	amage le	evel	of 70%,	13 14
Weapon	250# Snakeye	or	250;/ BOMB	or	500// BOMB	or	750# BOMB	
•	348/29		433/36		233/25		132/22	15
d. Wei "over ta	apons/sorti rget" requi	.es or .remer	peration ots show	nally wn abo	require	ed to	achieve	16 17
	424/35		528/44		272/30		161/27	13
15. PROBAL	BILITY OF A	CHIE	ING DA	MAGE 1	LEVEL:	5Q%.		19



TAB ABC TO ANNEX C TO APPENDIX A





1. TARGET NUMBER: 39.33	1
2. <u>BE NUMBER</u> : 616-0953	2
3. IDENTIFICATION: Trai Thon Army Barracks	3
4. DATE OF INFORMATION: 20 September 1966 DATE OF TIS: 18 October 1966 DATE OF PHOTOGRAPHY: 20 July 1965 DATE OF INTELLIGENCE REVIEW: 20 September 1966	4 5 6 7
5. <u>LOCATION</u> : 21-20-22N 106-09-00E, UTM XJ 196600, one NM NNE of Trai Thon and 4.6 NM NE of Bac Giang.	8 9
6. DESCRIPTION: This barracks area contains twelve 2-story barracks buildings $(9-182! \times 34!; 1-115! \times 34!; 1-170! \times 34!; and 1-105! \times 34!)$, 1 large administration building $(136! \times 65!)$ probably used as an auditorium, 1 large twin building mess hall $(14,500 \text{ ft. sq.})$, 22 support buildings (approximately 45,000 ft. sq.), and 1 water tower. The barracks capacity is estimated at 2000 troops; however, this could be a military school, in which case a part of the floor space would be allotted to classrooms.	10 11 12 13 14 15
7. SIGNIFICANCE: This installation is one of a number of large military installations in the general area of Bac Giang. Collateral reports indicate an Army engineering school is in the Bac Giang area and OB holds an AAA Regiment in this vicinity; however, defenses related to this site appear limited to trenching and probable AW positions.	17 18 19 20 21
8. TARGET ENVIRONMENT: Target is on a broad flat plain cultivated to wetland rice. Many small civilian settlements are scattered throughout the surrounding vicinity.	22 23 24
9. DEFENSE ENVIRONMENT:	25
a. Sixteen SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 25 additional SAM sites have been identified 18-30 NM distant.	26 27 28
b. No AAA defense activity has been identified in the immediate vicinity of the target; however, there are 13 active sites (38 occupied 57mm/85mm revetments and 33 occupied 37mm revetments) and 9 inactive sites in the Bac Giang area, and 8 active sites (39 occupied 57mm/85mm revetments and 12 occupied 37mm revetments) and 4 inactive sites in the Dinh Xuyen area. (DOI: 21 July 1965 - 1 July 1966)	29 30 31 32 33 34
c. Intense HMG and small arms fire is anticipated.	35
10. <u>DAMAGE OBJECTIVE</u> : Damage criterion is structural damage to barracks and support buildings with accompanying personnel casualties. Damage level is 30%.	36 37
11. EFFECT ON NVN: Damage to this installation would not significantly affect the overall NVN posture as related to support for the Viet Cong and PL; however, possible training of engineers would be temporarily interrupted.	39 39 40



A-C-ABc-2

Tab APc to Annex C to Appendix A



in near	ura	lian ho	ice snei Using.	ter r Repla	or displac	rad ti			probably take under canvas o oment could	1 2 3 4
13.	COLLATER	L DAMA	GE:							5
•	a. Insign	nifican	t							6
1	b.	Popul	ation				Casua	ties*		7
	Targe	Area	Adjace	nt Ar	e a	Targe	et Area	Adja	ent Area	8
	Mil	Civ	Mi 1	Cı	v	Mil	Civ	Mil	Civ	9
	1000	0	50	5	0	60	0	1	1	10
	*Casu	ilties	estimate	d und	er dayligi	nt ale	ert cond	tions		11
14. [RECOMMENI				·-					12
					damage lev	el o	f 3.0% us			13
requ	uired ove	r targ	et:				- 30%, w	apons	Borcies	14
WEAPON			50# Nakeye	or	250# 80MB	or	500# BOMB	or	750# BOMB	
Area A	(750×100	00)	245/21		290/25		172/20		118/20	15
requ	b. Weapon uirement	ns/sort shown	ics oper above:	at 1 on	ally requ	ired	to achiev	rë fove	er target"	16 17
			299/25		354/30		210/24		144/24	18
requ	c. In ord	er to	achieve et:	the d	amage leve	el of	70%, we	pons/	sorties	19 20
WEAPON		_	SÓ# NAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A		ł	830/70		980/82		580/65		400/67	21
	d. Weapon uirement			at ion	ally requ	red (to achiev	e "ove	:1 target"	22 23
		10	012/85		1195/100		707/79		488782	2.
15. 1	PROBABIL	TY OF	ACHIEVIN	G DES	IRED DAMA	E LE	<u>VEL</u> : 507	.		25

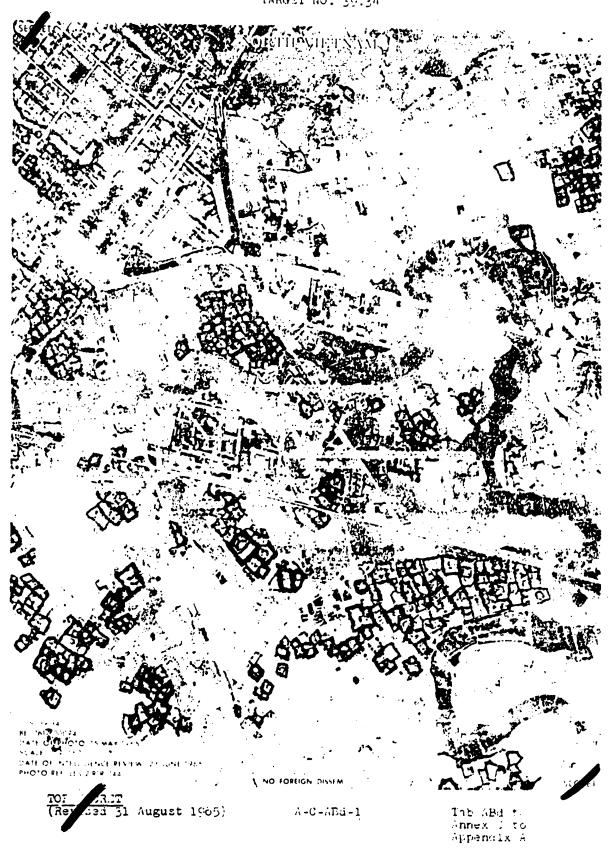


A-C-ABc-3

Tab ABc to Annex C to Appendix A



TAB ABd TO ANNEX C TO APPENDIX A TARGET NO. 39.34





1. TARGET NUMBER: 39.34	1
2. <u>BE NUMBER</u> : 617-0094	2
3. IDENTIFICATION: Ha Tinh Army Bks and Supply Dpo	3
4. DATE OF INFORMATION: 15 May 1965 DATE OF TIS: 9 August 1955	4 5
5. LOCATION: 18-19-55N 105-54-40E, UTM WF 956269, 0.7 NM SSW of Ha Tinh.	6 7
and at least 3 utility/support buildings. A second enclosed possibly military area is located approximately 2 NM to the	8 9 10 11 12 13
	14 15 16 17
8. TARGET ENVIRONMENT: This area is located in the coastal delta 0.7 NM SSW of Ha Tinh and adjacent to Route 1. The area is heavily cultivated and there are many individual farm houses among the rice fields.	18 19 20 21
9. <u>DEFENSE ENVIRONMENT</u> :	55
a. The only known AAA in the immediate vicinity is an unoccupied AW position approximately \$\frac{1}{2}\$ NM to the east. Within the Ha Tinh area, however, there is one unoccupied 57/85mm site with 6 positions, 20 14.5/37mm sites with 86 positions, 24 of which are occupied.	23 24 25 26 27
b. There are four EW radars in the vicinity.	28
c. Small arms fire can be expected from troops in the area.	29 30
10. <u>DAMAGE OBJECTIVE</u> : Structural damage to buildings with resulting loss of personnel and equipment. Damage level is 30%.	31 32 33
11. EFFECT ON DRV: Reduce capability to repair supply routes with resulting delay in delivery of supplies.	34 35
12. <u>RECUPERABILITY</u> : Barracks could possibly be operational at a reduced level in 24 hours. Replacement of casualties and destroyed equipment would take 3 to 15 days, depending on priorities.	36 37 38 39
13. COLLATERAL DAMAGE: Insignificant.	40
14. RECOMMENDED WEAPONS AND SORTIES:	41
a. In order to achieve the damage level of 30%, weapons/	42

A-C-ABd-2



Tab ABd to Annex C to Appendix A





Weapon	250# Snakeye	or	250# BOMB	·or	500# BOMB	or	750# BOMB	
	148/12		187/16	•	96/11		56/9	1
b. Weap	ons/sortie	s op	erations	ally n abo	require	ed to	o achieve	2 3
	180/15		228/19		117/13		68/11	4
c. In or				a ma go	e level	of '	70%, weapons/	5
Weapon	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
	499/42		630/53		324/36		189/32	
d. Weap	ons/sortie et" requir	s openen	eration ts show	ally n ab	require	ed t	o achieve	8 9
	609/51		768/64		395/44		230/38	10
15. PROBABI	LITY OF AC	HIEV	ING DES	IRED	DAMAGE	LEV	EL: 50%	11

TAB ARE TO ANNEY O TO APPENDIX A

TARGET NO. 39.35



Tab ABe to Annex C to Appendix A



1. TARGET NUMBER: 39.35	1
2. RE MEIDER: 617-1229	2
3. IDENTIFICATION: Co Dinh Army Barracks NW	3
4. DATE OF INFORMATION: 29 July 1965 DATE OF TIS:	4 5
5. LOCATION: 19-45-58H 105-35-09E, UTM WG 612864, 3.4 NM W of Co Dinh, approximately 12 NM W of Thanh Hoa.	6 7
6. DESCRIPTION: Target area contains a total of 41 buildings !acluding !nose under construction as well as some scars of dismantled structures. Main target is on E side of natural earth road, improved from a cart trail, leading through a series of small villages. It comprises a battalion-type area of the probable becamely, a support/storage-type buildings, a more half and an administration on building. Adjoining is another burracks and support area still under construction conditions of 6 probable as each completed, and 3 support buildings (2 under construction). There are 2 barracks/administrative-type buildings under construction and a few small sheds. West of the road are additional storage/support-type buildings and a training area. The main trenches in the area presently contain water.	8 10 11 12 13 14 15 16 17 18 20 21
7. SIGNIFICANCE: Area is in the zone of responsibility of the 330th Infantry Brigade which is active in training infiltrators for both V/C and P/L support. An artillery battalion has been reported in this vicinity.	22 23 24 25
8. TARGET ENVIRONMENT: Target is situated in low deltaic marshland of the Song Ma, consisting primarily of paddy fields. NW/SE trending foothills rise to the S and W with a 1750 ft elevation approximately 1.5 NM SSE.	26 27 28 29
9. DEFENSE ENVIRONMENT: In the vicinity of Co Dinh is an inactive 14.5/3/mm AAA site containing 3 unoccupied positions. In the Thanh Hoa area defenses consist of 15 active 14.5/37mm sites with a total of 44 occupied positions. There are 2 active 57/85mm sites with 12 occupied positions. Target is within the capabilities of EW radar at My Duc, 22 NM NE. Small arms and A/W ground fire can be anticipated from troops in the area.	30 31 32 33 34 35 37
10. DAMAGE OBJECTIVE: Casualties to personnel and damage to military supplies and equipment. Damage level is 30%.	38 39
11. EFFECT ON NVN: Reduction of capability to train and support infiltration efforts.	40 41
12. RECUPERABILITY: Functioning of troops in this area could be renumed in 12 hours by bivouacking under canvas or of quartering in nearby village. Barracks repair or reconstruction might not be undertaken until the dry season.	42 42 41
13 COLLATERAL DAMAGE: InstantCleant	Ц



A-C-ABe-2

Tab ABe to Annux C to Appendix A

TOP SECRET

14. RECOMME	NDED WEAPONS A	NO SORTIES:			1
a. In or	rder to achiev quired over ta	e the damage rget:	e level of	30%, weapons/	2 3
Weapon	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
	113/9	146/12	75/8	44/7	4
b. Weapo	ons/sorties opet" requiremen	erationally ts shown abo	required tove:	o achieve	5
	138/12	178/15	91/10	54/9	7
c. In or sorties rec	rder to achieve quired over ta	e the damage rget:	e level of	70%, weapons/	8 9
Weapon	250# SNAKEYE or	250# BOMF, or	500# BOMB or	750# BOMB	
	381/32	492/41	253/28	149/25	10
d. Weapo	ons/sortics of et" requireme	rationally s shown abo	required tove:	o achieve	11 12
	465/39	600/50	309/34	181/30	13
15. PROBABII	LITY OF ACHIEV	ING DESIRED	DAMAGE LEV	EL: 50%.	14

TOP ECRET

A-C-ABe-3

Tab ABe to Annex C to Approxima A

(Revised by 7th Note to Holders)



TAB ABC TO ANNEX C TO APPENDIX A TARGET NO. 39.36





1. TARGET NUMBER: 39.36	
2. <u>BE NUMBER</u> : 617-0236	1
3. The limited and	2
	3
4. DATE OF INFORMATION: 25 August 1965 DATE OF TIS:	
5 TOOM	1965 5
approximately 1 NM NW of Vinh, 1 mediately west of Vinh 6. DESCRIPTION: 18-41-00N 105-39-48E, UTM WF 699658, 6. DESCRIPTION: 06-10-10-10-10-10-10-10-10-10-10-10-10-10-	6
D. DECORED	7
6. DESCRIPTION: This large military installation consistent of the areas containing approximately 179 buildings. Are structures. 3 mers buildings. 28 barracks	t
ings, 3 mers halls and approximately barracks, 20 stores	a 1 10
0 00 7 % Kill 1	_ 1^
Since in a solution of the sol	13 14
approximately barracks, but rage hull to contains 4 administrate	nd 15 lon 16
approximately 12 support structures. If fully occupied, 7. SIGNIFICANCE.	17
STONT TO TOO STONE	18 19
7. SIGNIFICANCE: This installation may be associated wit supports MR IV military training and operations	h 20
communications viet Cong. All maior operations, including	21 22
communications to the south channel through Vinh. The rail this barracks area.	23 24
of dant or	25
8. TARGET ENVIRONMENT: Target 13 situated in a nearby settlements are located to wetland rice. A number of statements	26
flat plain planted to wetland rice. A number of civilian settlements are located in the vicinity of the targeted areas 9. DEFENSE ENVIRONMENT.	27 28
9. DEFENSE ENVIRONMENT:	. 29
A. Within A.	30
a. Within the installation boundaries there is one in- active 8-position AAA site with associated AW revetments. The general Vinh area AAA defense consists of look	31
identified AAA sites. 32 of which consists of 102	32
naddda - Colve id 6/37	33 34
positions) and 17 active 57/85mm size cites (100 occupied positions). In addition, there are 24 identified HMG	35 36
b. Constant	37 38
b. Confirmed radars in the Vinh area include 6 AAA type.	
reight finder-	39 40
c. At least one and possibly 2 Independent Infantry AAA battalion and Approximately in the general area of	41
Regiments are reportedly in the general area of Vinh. An located in and around the Vinh complex	42 43
10. DAMAGE open	44 45
riterion is structural damage to barracks and administration evel is 30%.	_
evel is 30%. accompanying casualties to personnel properties	46 47
	48 49



A-C-ABF-2

Tab ABf to Annex C to Appendix A

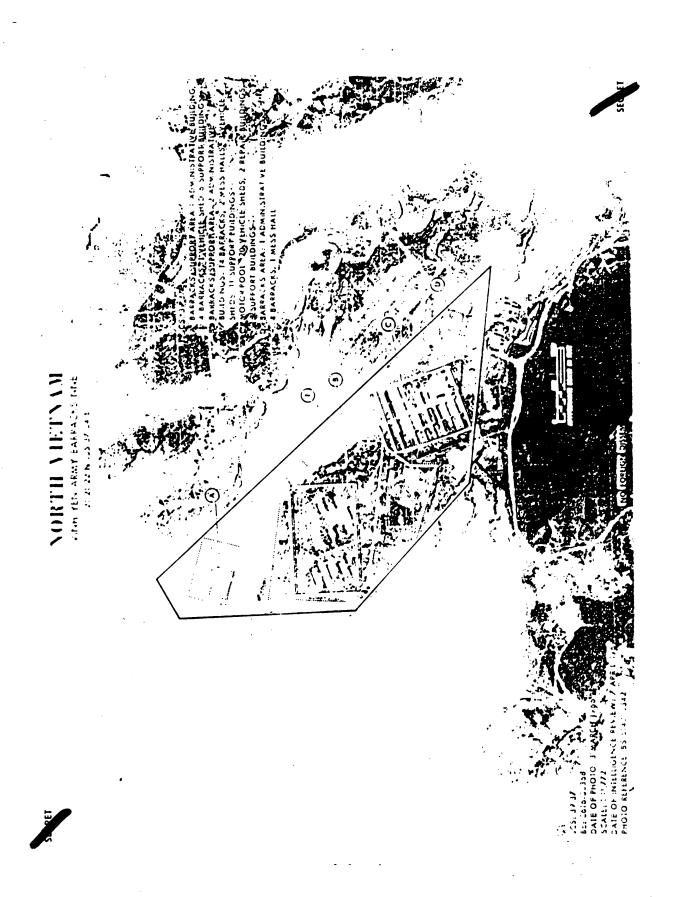


	11. EFFECT ON :W:: Reduction of capability to supply close military support to VC/PL activities and disruption of communications and logistic activities.								
12. should on a : requir	12. RECUPERABILITY: With a destruction level of 30%, it should take around 48 hours to resume barracks-type operations on a limited scale. Repair of permanent structures would require approximately 3 weeks. Replacement personnel could be in the Vinh area within 72 hours.								
13.	13. COLLATERAL DAMAGE: Moderate damage to surrounding area.								
14.	RECOMMEN	DED WEAPONS	ANI	SORTIES:			10		
a. The target consists of four areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required to achieve "over target" requirements are also shown:									
	(!) I weapons/	n order to sorties re	e chi	levo a dama ed over tar	ge level of get:	30%,	16 17		
	Weapon	SNAKEYE	or	250# BU!/B or	500# BOMB or	750# BOMB			
	Area A	220/19		253/21	130/15	76/13	18		
	Area B	178/15		211/18	108/12	64/11	19		
	Area C	192/16		229/19	118/13	69/12	20		
	Area D	97/8		121/10	62/7	37/6	21		
	Totals	687/58		814/68	418/47	246/42	55		
	(2) U	eapons/sort	123 t 1	operationa requirement	lly require s shown abo	d to ve:	23 24		
	•	838/70		993/83	510/57	300/50	25		
	(3) I weapons/	n order to sorties req	achi	leve a dama ed over tar	ige level of get:	70%,	26 27		
	Weapon	250# Snakeye	or	250// BOMB or	500# BOMB or	750# BCMB			
	Area A	741/62		853/71	438/49	256/43	28		
	Area B	600/50		711/59	364/41	216/36	29		
	Area C	647/54		772/65	398/44	233/39	30		
	Area D	327/27		408/34	209/23	125/21	31		
	Totals	2315/193	:	2744/229	1409/157	830/139	32		
	(4) Wachieve	eapons/sort	ies t"	operations requirement	lly require s shown abo	d to	33 34		
		2823/235		3346/279	1718/191	1012/169	35		
15.	PROBABII	ITY OF ACHI	EVI	NG DESIRED	DAMAGE LEVE	L: 50%.	36		

TOP ECRET

A-C-ABC-3

Tab ABf to Annax C to Appendix A





A TARGET NUMBER: 24.27	,
FE DUMBER: 1 CO-C30	2
1. IDENTIFICATION: Vinn Yer Army Barracks NNE	3
A. LATE OF INFORMATION: A April 1969 CATE OF TISD: Bay 1969 DATE OF PHOTOGRAPHY: 3 March 1960 DATE OF INTELLIGENCE REVIEW: 7 April 1969	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
William To View Yer.	:
LESTRIPTION: Unit installation is a commonent of the Vinh for VI itery Complex as a comprises of one large and A small barracks seem for a large waller mitter pool. There are approximately 60 major of after within the area is suring 20 barracks, 24 venicle brieds, and 25 depoint integral of commissions buildings and mess halls, and 25 depoint of most area, thus a common of probable quarters or civiliantures are evident ones. Aw site, trescaling, and vehicle revenuents are evident to make it to area. An extensive training area is located to the E most of the area. These apparity is estimated to be about 3,000.	20 20 32 20 27 3
The Conference of Tank Regiment, the only such regiment to The F, it reportedly in the Vinh Yen area. Thotography has	19 ≥0 21
TARGET ENVIPORMENT: The surrounding terrain is rolling, become ar, and alternatery scrub-covered and cultivated. There we make make and streams throughout the area.	22 23 24
·. · LEFEUSE EUVIE-MMENT:	25
a. The target is within the SAM envelope.	26
b. AAA activity has been identified within 3 NM of the target.	27
. HMC and small arms fire is anticipated.	28
i. <u>DAMAGE OBJECTIVE</u> : Personnel casualties. Damage criterion in tructural damage to barracks, support and vehicle sheds and a commanying personnel losses. Damage level is 30%.	29 30 31
: EFFECT ON NVN: Loss of this installation would affect training and operational capabilities of military elements in the area and may result in destruction of armored vehicles and trucks.	32 13 34
12. RECUPERABILITY: Assuming 30% destruction, it is probable that vehicle maintenance and training would be disrupted from 8 to 72 hours. Replaced troops could be housed in civilian areas or billeted in the field. Replacement of destroyed equipment and supplies would require to 3 days if available in the HaNoi area, 7 to 8 days if acquired from Communist China.	35 36 37 38 39



NO POREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-ABg -2

Tab ABg to Annex C to Appendix A



13.	COLLATER	AT. DAM	ACF.						
		gnifica							1
		Ziill 10	•						2
	i.		Populati	.on		Cast	ualties	s*	3
	Target	Area	Adjacent	Area	Targe	t Area	Adjad	cent Area	4
	M1 1	C1 v	Mil	Civ	Mil	Civ	Mil	Civ	5
	90	sc	10	100	5	1	0	i	6
	'Casualt	les es	timated und	er dayl	ight a	lert com	dition	ns.	7
34.			APONS AND S						8
ana com reguires	This ties have doc achie required	target been deve the	complex incomputed for damage letter target	s compr r each vel pre are als	ised of area. scribed of shown	To show i, total	v the e L weapo	effort ons/	9 10 11 12
. r*16.	(i)] required	li orde over i	r to achie .arget:	ve a da	mage le	evel of	30%, h	veapor.s/	13 14
NAMES.			SNAKEYE SNAKEYE	50 or SN	⊖# AKEYE	or i	50∩# 3 0 MŒ	750# or BOMB	15 16
hors A	. * . * > %	: ')	1470		10/1		2.72	11/2	17
nomb B	. · · x	• >	174.715		66/11	:	110/12	59/10	18
	1 y 27	·· ·)	11.910		65.17		76/8	40/7	19
Special L	St x)Ac)	.3/1		٥/1		16/2	9/2	50
19.			375/23		179/: C	2	27/24	• •	21
" en to	//) W armont" req	leapon: jui reme	Voorties o ent shown a	peratio bove:	nally r				53 55
	•		3 40/34		215/24	2	65/29	143/25	24
nules	(E) I required	i orde ever t	r to achie arget:	ve a da	mage le	evel of	70%, n	veapons/	25 26



A-C-ABg-3

(Revised by 17th Note to Holders)

Tab ABg to Annex C to Appendix A



CONAGE	250# Snakeye	or	500# Snakeye	or	500# BOMB	or	750 BOMB	1 2
Arris A	61/5		34/4		65./7		35/6	3
Area B	58874.5		322/36		371/41		197/33	4
Kreu "	402/34		220/24		255/28		135/23	5
Area D	111:/1;		24/3		55/6		29/5	6
Totals	1095/92		600/67		746/82		396/67	7
(4) Weapons/sorties operationally required to achieve " you target" requirement shown above:								8
	1314/116		720/80		895/98		475/80	10
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.								11





TAB ABE TO ANNEX C TO APPENDIX \boldsymbol{A}

TARGET NO. 39, 38



TOP SEZRET (Revised by 11th N/H)

A - C - A Bh - 1

. The CARLES As $x \in C$, the Armondon section x



1. TARGET NUMBER: 39.38	1
2. <u>BE NUMBER</u> : 616-0372	2
3. IDENTIFICATION: Phu Tho Army Barracks NW	3
4. DATE OF INFORMATION: 21 September 1966 DATE OF TIS: 3 October 1966 DATE OF PHOTOGRAPHY: 23 July 1966 DATE OF INTELLIGENCE REVIEW: 8 September 1966	5
5. LOCATION: 21-27-03N 105-11-44E, UTM WJ 207718, 3 NM NAW of Phu Tho.	8
6. DESCRIPTION: This installation has been in the process of dismantling since November 1965 and now contains only 2 double-bay warehouses and 3 storage building. There appears to be one probable revetted building in the training area. All barracks buildings have been dismantled.	10
7. SIGNIFICANCE: This target area no longer appears to be militarily significant and will possibly be completely dismantled or abandoned.	13
8. TARGET ENVIRONMENT: This installation is situated on low scrub-covered hills surrounded by cultivated fields and small farms.	15
9. <u>DEFENSE ENVIRONMENT</u> :	17
a. Ten SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 8 additional sites are 18-30 NM distant.	18
b. No AAA defense activity has been identified in the area of this target, and the closest AAA defenses are 4 inactive sites approximately 3 NM due east in the Ngoc Thap area.	20 21 24
c. Sparse HMC and small arms fire is anticipated.	23
10. DAMAGE OBJECTIVE: Damage criterion is structural damage to barracks, storage and support structures with accompanying casualties to personnel. Damage level is 30%.	24 23 26
11. EFFECT ON NVN: Damage to this installation would temporarily disrupt remaining training activities but would have little appreciable effect on the overall NVN defense position.	27 28 29
12. RECUPERABILITY: Assuming 30% destruction, near normal operations could be resumed within 48 hours if troops are billeted in tents. Destroyed supplies and equipment could be replaced within 5 to 7 days, depending upon priorities.	3(3) 3(3)



A-C-ABh-2

Tab ABh to Annex C to Appendix A

TOP ECRET

13. COLLATERAL	DAMAGE:							1
a. None								2
						,		
b.	Population				Casual	ties*		3
Target	Area Adjace	nt Area		Target	Area	Adjac	ent Area	4
Mil	Civ Mil	Civ	!	Mil	Civ	Mil	Civ	5
20	0 5	15		1	0	0	0	6
*Casual	ties estimate	d under	dayligh	t aler	t cond	itions.		7
14. RECOMMENDE	D WEAPONS AND	SORTIES	:					8
delineated for thi	stallation is or weapons app s area. To s bed, total we	lication how the	. Weap effort	ons an	d sort	ies hav schieve	e been com- the damage	9 10 11 12 13
	order to achi over targets:	eve a da	mage le	vel of	30%,	ve apons	/sorties	14 15
WEAPON	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area B (250×600)	37/4		67/6		34/4		20/4	16
	pons/sorties nts shown abov		onally r	equire	d to a	chieve	"over targets	' 17 18
•	45/4		82/7		41/5		24/4	19
	order to achi over target:	leve a d	amage le	evel of	70%,	weapons	s/sorties	20 21
WEAPON	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area B	125/11		227/19		115/1	13	68/12	22
	apons/sorties nts shown abo		onally :	requir	ed to a	chieve	"over target"	23 24
	152/13		277/24		140/	16	83/14	25
15. PROBABILI	TY OF ACHIEVI	NG DESIR	ED DAMA	CE LEVI	<u>EL:</u> .50	77.		26

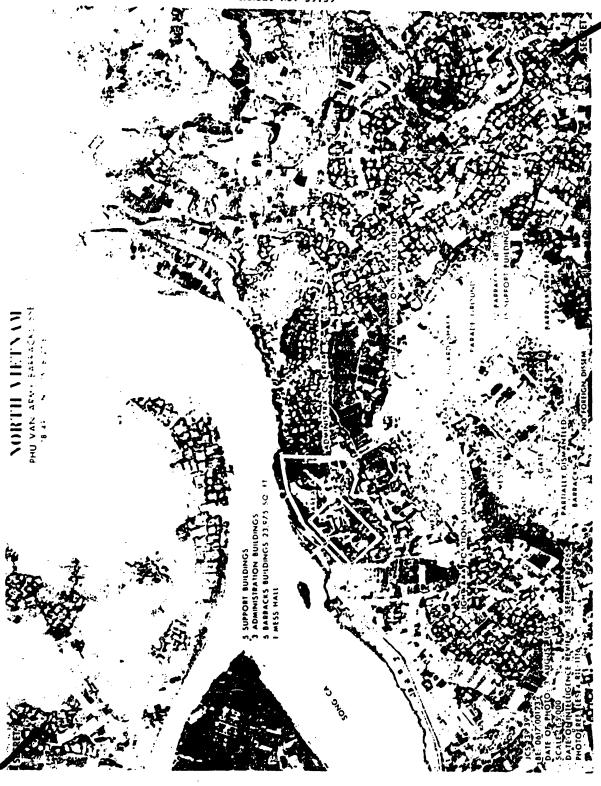
TOP S CRET

A-C-ABh-3

Tab ABh to Annex C to Appendix A

TAB AB 1 TO ANNEX C TO APPENDIX A

TARGET NO. 39.39



TOP STRET
(Revised by 6th N/H)

A-C-ABi-1

Tab ABi to Annex C to Appendix A



1. TARGET NUMBER: 39.39	1
2. <u>BE NUMBER</u> : 617-0123	2
3. IDENTIFICATION: Phu Van Army Barracks SSE	3
4. DATE OF INFORMATION: 3 September 1965 DATE OF TIS: 20 December 1965 DATE OF PHOTOGRAPHY: 3 August 1965 DATE OF INTELLIGENCE REVIEW: 3 September 1965	4 5 6 7
5. LOCATION: 18-49-00N 105-18-27E, UTM WF 327808, approximately 1 NM S of Phu Van, 4.5 NM S of Vinh Son.	8
6. <u>DESCRIPTION</u> : This military garrison consists of a parracks area and an administrative area. The barracks area as fenced and contains approximately 12 barracks, 1 mess hall, miscellaneous support buildings and a parade ground. This area has two gates, and numerous weapons emplacements and trenches are noted throughout the surrounding area. The administrative area contains 3 administration buildings, 6 parracks, 1 mess hall and approximately 5 miscellaneous support structures. The capacity of this installation is estimated to be around 2,000.	10 11 12 13 14 15 16 17 19
7. SIGNIFICANCE: This garrison is part of the large military complex in the Vinh Son area serving the 328th infantry Brigade and located south of Route 7 between Routes 7 and 8, both of which are main avenues for support to operations in Laos.	20 21 22 23 24
8. TARGET ENVIRONMENT: This installation is located in the low intensively cultivated riceland on the eastern bank of the Song Ca. Civilian settlements and farms about the administration area of this target and a large training area surrounds the barracks area. This facility has access to both good roads and to the Song Ca.	25 26 27 28 29 30
9. <u>DEFNESE ENVIRONMENT</u> :	31
a. There is one inactive AW or light AAA site (6 positions) in the training area to the northeast of the barracks complex. The over-all Vinh Son-Phu Van AAA defenses consist of the following: 8 active sites (17 occupied 14.5mm/37mm positions and 10 occupied/20 unoccupied 57mm/85mm positions) and 22 inactive sites (65 unoccupied 14.5mm/37mm positions and 48 unoccupied 57mm/85mm positions) and 20 unoccupied HMG positions. (DOI: 10 - 22 August 1965.)	3334567850
b. Heavy AW and ground fire from the troops in the area would be anticipated.	41 42
10. <u>DAMAGE OBJECTIVE</u> : Damage criterion is structural image to buildings and accompanying personnel casualties. Damage level is 30%.	43 44 45
11. EFFECT ON DRV: 30% damage to this target would probably temporarily interrupt training and support to infiltration activities; however, this interruption would not be critical	46 47 48



A-C-AB1-2

Tab ABi to Annex C to Appendix A

TOP ECRET

					•			
12. RECUPERABILITY: Theoretically, this installation could be brought back to near normal operations within 3 days; however, it is probable that troops would be dispersed to nearby civilian settlements. This conclusion is based on the fact that no apparent attempts have been made to restore nearby targets that have suffered bomb damage.								
13. <u>COLL</u>	ATERAL DAM	AGE:	Light d	lamage	to sur	round	ing area.	7
14. RECO	MMENDED WE	APONS	AND SOF	TIES:				સ
The target area consists of two areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required to achieve "over target" requirements are also shown:								
() weapo	l) In orde ons/sortie	r to a s requ	ichieve lired ov	a dam ver ta	age lev	el of	30%,	14 15
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	88/7		108/9		56/6		33/5	16
Area B	90/8		115/10		59/7		35/6	17
Totals	178/15		223/19		115/13		68/11	18
() "o v e:	2) Weapons r target"	/sorti requi:	les oper rements	ation shown	ally really above:	equire	ed to achieve	19 20
	217/18		272/23		140/16		83/14	21
weap	3) In orde ons/sortie	r to a	chieve uired or	a dam /er ta	nage le	vel of	70%,	53 55
WEAPON	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	298/25		365/30		190/21	•	112/19	24
Area B	305/25		389/33		200/22		119/20	25
Totals	603/50		754/63		390/43		231/39	26
achi	4) Weapons eve "over	/sort: targe	Les oper t" requi	ratior Lremer	ally routs show	ecuire wr. abo	ed to ove:	27
	735/61		920/77	•	476/53		252/47	23
15. PROB	ABILITY OF	ACHI	EVING DI	ESIREI	DAMAG:	E LEVE	EL: 50%	35





All of the contract of the first of the contract of the contra

TAPOR STORY OF BUILDING



TOPS CRIT (Regulation Little Nation N=C+ADE-1



1. TARGET NUMBER: 39.41	1
2. <u>BE NUMBER</u> : 616-0315	2
3. IDENTIFICATION: Ngoc Thi Army Barracks and Supply Depot	3
4. DATE OF INFORMATION: 12 August 1966 DATE OF TIS: 7 September 1966	4
DATE OF PHOTOGRAPHY: 21 July 1965	5
DATE OF INTELLIGENCE REVIEW: 19 August 1965	6 7
5. LOCATION: 21-54-42N 104-54-09E, UTM VK 903229, 1 NM S of Ngoc Thi, 13 NM NNE of Yen Bai, 16 NM W of Tuyen Quang.	8 9
6. DESCRIPTION: This installation is located on the southern side of the Song Chay and has immediate access to the Ha Noi-Lao Cai road. There are two barracks areas with a total of approximately 18 barracks, 16	10 11 12
The state of the s	13
	14
	15
The transfer of the control of the c	16
- The Court accommodate up to 1, 550 tecone and Lag a same	17
of around 35,000 square feet.	18
7. SIGNIFICANCE: No specific military unit can be identified with	19
""" installation, nowever, it appears to be active and is of modernia	20.
significance because of capacity.	21
8. TARGET ENVIRONMENT: This installation is on a river and is	22
The surrounding toward and and analysis analysis and analysis analysis and analysis analysis and analysis analysis and analysis and analysis anal	23
comman bettlements are immediately adjacent to the target on theme	24
sides.	25
9. <u>DEFENSE ENVIRONMENT</u> :	26
a. No SAM sites have been identified within SA-2 missile range	27
111.5 NM; Of this target nor have any sites been identified within a	28
30 NM radius.	29
b. No AAA defense activity has been identified in the area of this	30
target, the closest being approximately 12 NM SW in the Yen Bai area.	31
c. Intense machine gun/small arms fire from the barracks area	32
would be anticipated by low flying aircraft.	33
10. DAMAGE OBJECTIVE: Destruction of barracks and storage	34
buildings with accompanying casualties to negonnel and equipment. Description	35
level is 30 per cent.	36
	20



11. EF	FECT	ON NVN	: Dam	age	to this ba	arrack	:s instal	lation w	ould have	1
no apprecia further der	nonstr	ate the	n the o	vera)	I NVN d	clense	positio	n but w	ould	2
	further demonstrate the vulnerability of identifiable military garrisons.									
12. REC	CUPER	ABILIT	Y: Lir	nited	operati	ons co	uld be r	esumed	l within 24	4
hours if dis	sted in	tente	Banais	sper	ed to ne	arby o	ivilian i	housing	or	5
										t. 6
		replace	d withi	n 40	nours or	less,	depend	ing upo	n prioritie	s. 7
13. <u>CO</u> 1	LLATE	RAL DA	MAGE	:						8
à.	Insigni	ficant								9
b.		Popul	ation				Casu	alties*		10
	Target	Area	Adjac	ent A	rea	Targe	t Area	Adjac	ent Area	11
:	Mil	Civ	Mil	C	iv	Mil	Civ	Mil	Civ	12
i	500	0	50	1	50	90	0	1	2	13
:	«Casua	uties es	timate	d und	er dayli	ght ale	rt cond	itions.		14
14. <u>REC</u>	OMME	NDED	WEAPO	ONS A	AND SOR	TIES:				15
a. '	The ta	rget con	sists o	í íou	r areas.	Wea	pons and	lsortie	s.have	16
the dam	age les	vel seed	n area	. 10	show th	e effo	rt requi	red to a	chieve	17
achieve	"Over	la roet!!	cribed,	tota	l weapon	18/501	ties req	uired t	•	18
										19.
requ	(1) Indired o	order to ver targ	achievet:	e a	damage 1	evel o	of 30%, v	weaponi	s/sorties	20 21
WEAPON		250# Snah	ŒYE	or	250# BOMB	or	500# BOM E	3 or	750# BOM B	
Arca A (350	×750)	59/5	5		89/8		46/5	•	27/5	22
Area B (500	×550)	65/5	•		86/7		44/5		26/4	23
Area C (150	×300)	17/2	:		41/3		21/2		13/2	24
Area D (300	×500)	40/3	}		64/5		33/4		20/3	25
Totals		181/1	5		280/23		144/1	6	86/14	26
targe	2) We	apons/s uiremer	crties its sho	opera wn al	stionally bove:	requi	red to a	chieve	"over	27 28



A-C-ABk-3

341/29

176/20

221/19

Tab ABk to Annex C to Appendix A

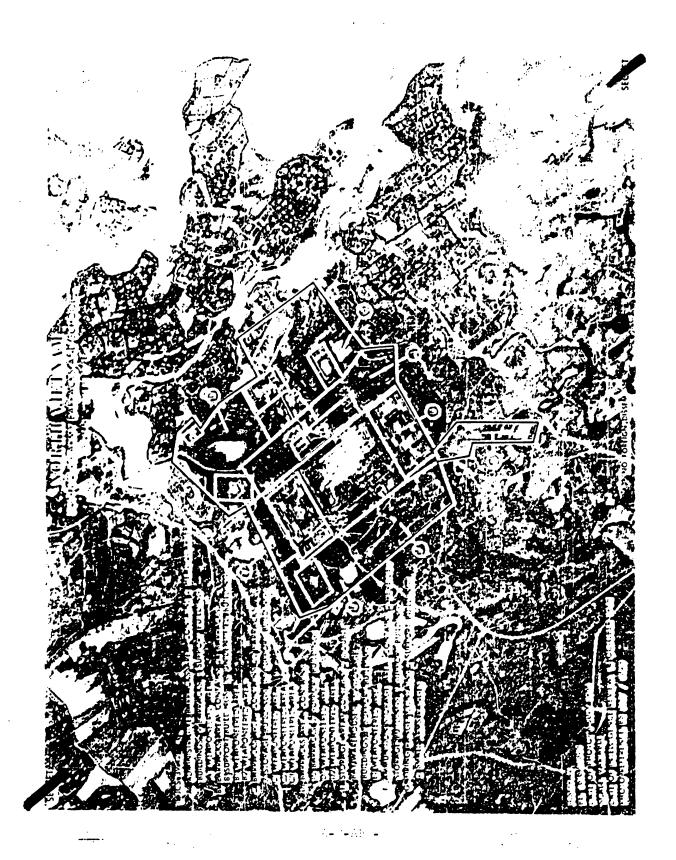
105/18

(3) I required	n order to achie	ve a	darnage le	evel	of 70%, wea	pons	/sorties	1 2
WEAPON	250# Snakeye	07	250# BOMB	or	500# . BOMB	OF	750# BOM B	
Area A	200/17		300/25		156/18		92/15	
Area B	217/19		290/25		149/17		88/15	4
Area C	58/5		139/12		71/8		44/7	5
Area D	136/12		217/19		112/12		68/11	6
Totals	611/53		946/81		488/54		292/48	7
(4) Weapons/sorties operationally required to achieve "over target" requirements shown above:								
	745/63		1154/97		595/66		356/60	10
15. PROBAB	ILITY OF ACHIE	VINC	DESIRE	D D.	AMAGE LE	VEL:	: 50%	11

TOP CERET

A-C-ABK-4

Tab ABk to Annex C to Appendix A



C . R



1. TARGET NUMBER: 39.42	1
2. BE NUMBER: 616-0305	2
3. IDENTIFICATION: Son Dong Army Bks and School	3
4. DATE OF INFORMATION: 5 Jan 68	4
DATE OF TISD: 6 Nov 68	5
DATE OF PHOTOGRAPHY: 6 July 66	6
DATE OF INTELLIGENCE REVIEW: 14 Oct 68	?
5. LOCATION: 21-03-25N 105-31-07E, located 1.5 NM S of Son Dong,	8
approximately 19 NM W of Ha Noi.	9
6. DESCRIPTION: This army school and barracks facility covers approxi-	10
mately 225 acres and can accomodate up to 5000 troops and trainees. The facili-	11
ties comprise 139 major buildings, including 65 barracks, 2 headquarters build-	12
ings, 17 storage structures, 35 support buildings, 2 ammunition storage buildings,	13
and a number of miscellaneous possible school buildings. A rifle range, trenching	14
and probable field artillery emplacements are located to the S of the target.	15
7. SIGNIFICANCE: This installation reportedly accomodates an advanced	16
officer training school for Infantry, Artillery, Armor, Signal, Political, and	17
Chemical elements.	18
8. TARGET F.NVIRONMENT: This installation is located in the Red River	10
Valley and is surrounded by rice fields. To the N, E, and W are small villages	19
and to the S are scrub-covered hills and an extensive road network.	20
and to the S are strub-covered nitts and an extensive road network.	21
9. DEFENSE ENVIRONMENT:	22
a. The target is within the SAM envelope.	23
b. AAA activity has been identified within 3 NM of target.	24
c. HMG and small arms fire is articipated.	25
10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is	26
structural damage to barracks, storage, and support facilities with accom-	27
panying casualties. Damage level is 30%.	28
11. EFFECT ON NVN: Damage to this facility would interrupt various	20
training activities; however, this activity could be directed to the Son Tay	2.9
	30
Military School and Training Facility (BE No. 616-0205). The overall NVN	31
defensive positions would not be seriously affected.	32
12. RECUPERABILITY: If 30% destruction were incurred here, near	33
normal operations could be resumed within 5 days, assuming temporary shelter	34
or civilian housing are used. Replacement of both personnel and supplies	35
would require no more than a week since this site is relatively close to	36
both Ha Noi and other barracks installations and transportation routes are	37
good.	38

SE RET

NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

MABABeto
Annex C to
Appendix A



13. COLLATER	RAL DAMAGE:					1			
a. None						2			
b. I	Population		C	Casualtic	ş +	3			
Target	Area Adjace:	nt Area	Target	Area A	djacent Area	4			
Mil	Civ Mil	Civ	Mil	Civ N	•	5			
3000	0 500	25	180	0	5 0	6			
·	alties estimate:	d under da		_	•	7			
*Casualties estimated under daylight alert conditions. 14. RECOMMENDED WEAPONS AND SORTIES:									
					•	8			
(, sub-areas) Da	ve been delinea	ted for we	apons an	nlication	as. Five areas. Weapons	9 10			
and sorties have been to achieve the damage	i computed for	cact area.	To sho	w the eff		11			
the target are also sh	own:	sed, total v	veapons/	sorties r	equired over	12 13			
/11 tm ===4=									
required over target:	r to achieve a d	amage lev	el of 30%	, weapor	s/sorties	14			
Ū						15			
WEAPON	250# Snakeye o	500# F SNAKE	YF	500#	750#	16			
	SHARE IE O	r SNAKE	YE or	вом в	or BOMB	17			
Area A (700x150)	16/1	11/1		26/3	16/3	18			
Area B-1 (600x300)	44/4	23/3		36/4	21/4	19			
Arca B-2 (600x300)	44/4	23/3		36/4	21/4	20			
Area C-1 (300x150)	17/1	9/1		21/2	13/2	21			
Area C-2 (400x100)	15/1	8/1		23/3	. 14/2	22			
Area C-3 (300x200)	21/2	11/1		22/2	13/2	23			
Area D-1 (150x75)	10/1	5/1		18/2	10/2	24			
Area D-2 (250x200)	19/2	10/1		21/2	13/2	25			
Area E (300x200)	21/2	11/1		22/2	13/2	26			
TOTAL	207/18	111/1	3	225/24	134/23	2,7			
(2) Weapon	s/sorties opera	tionally =	equired t	o achieve	Hover to see!!	28			
requirements shown a	bove:			- ermese	over target	28 29			
	249/21	134/1	3	270/30	161/27	30			

SECRET OF MUCKING

2

39.42



required ov	er target:	achie	ve a damag	e lev	el of 709	%, w	eapons/sorite	8
WEAPONS	250# Snakeye		500# Snake ye	or	500# BOM B		750#	
Area A	53/4		36/4		85/9	or	BOMB	
Area B-1	146/12		75/8				54/9	
Area B-2	146/2		75/8		121/13		71/12	(
Area C-1	56/5				121/13		71/12	
Area C-2	51/4		29/3		71/8		42/7	. 8
Area C-3	69/6		26/3		78/9		46/8	. 9
Area D-1			35/4		74/8		44/7	10
	32/3		17/2		58/6		34/6	
Area D-2	64/5	:	33/4		70/8		41/7	11
Area E	69/6	3	35/4		74/8		•	12
TOTAL	686/57	36	1/40		52/82		44/7	13
(4)	Weapons/sortie			•	32/02	4	47/75	14
Ref. Lednis	ements shown a	bove:		edni	red to ac	hiev	e "over	15
	824/69	43	4/48	90	3/100	E	37/90	16
15. PROP	BABILITY OF A	CHIE	VINC DD			9	31790	17

SECRET



The Aim to Arrest To Appendix



1. TARGET NUMBER: 39.43	1
2. <u>BE NUMBER</u> : 616-1376	2
3. IDENTIFICATION: Kep Army Barracks South	3
4. DATE OF INFORMATION: 23 July 1968	4
DATE OF TISD: 3 June 1969	5
DATE OF PHOTOGRAPHY: 13 May 1967	.6
DATE OF INTELLIGENCE REVIEW: 28 February 1969	7
5. LOCATION: 21-21-35N 106-16-00E, 0.5 NM ESE of Chu Nguyen,	8
approximately 2.5 NM SW of Kep, 1.6 NM S of Kep Airfield.	9
6. DESCRIPTION: This active military installation consists of 4 areas	10
and an extensive training area. Route IA and the Ha Noi-Lang Son Railroad.	11
runs WSW-ENE through the site. The target contains approximately 56	12
buildings including 10 barracks (4 multi-storied), 4 administrative buildings,	13
4 mess halls, 6 storage structures (4 revetted), 6 vehicle storage sheds,	14
and 26 miscellaneous support buildings. The capacity of this target is	15
estimated to be approximately 3,000 troops.	16
7. SIGNIFICANCE: No specific military unit can be identified with this	17
installation; however, its size and apparent activity are significant. The	18
numerous vehicle revetments, vehicles and vehicle storage facilities suggest	19
that this area may be artillery - or transportation-associate.	20
8. TARGET ENVIRONMENT: The 4 areas comprising this target are	21
located in low hills surrounded by cultivated fields and small civilian	22
settlements. A canal winds through the installation.	23
9. DEFENSE ENVIRONMENT:	24
a. The target is within the SAM envelope.	25
b. AAA activity has been identified within 3 NM of the target.	26
c. HMG and small arms fire is anticipated.	27
10. DAMAGE OBJECTIVE: Personnel casualties and destruction of	28
barracks and support structures. Damage criterion is structural damage	29.
to buildings with accompanying casualties to personnel. Damage level is 30%.	30
11. EFFECT ON NVN: Damage to the installation would disrupt training	31
activities and temporarily reduce the combat capability of the military units	32
associated with this installation.	3,3
12. RECUPERABILITY: Near normal operations could be resumed within	34
36 hours if nearby cleared and level areas are utilized for field billeting. There	35
is also sufficient civilian housing in the area to accommodate displaced troops	
and supplies. Replacement of equipment and supplies could probably be	36
and supplies. Replacement of equipment and supplies could probably be acquired within one week.	37 38
	20

SECKET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING



13. COLLA	TERAL DA	MAGE:				1
a. None						2
b.	Population	ı	С	asualties#		3
Targe	t Area A	Adjacent Area	Target Ar	ea Adjac	ent Area	4
Mil	Civ	Mil Civ	Mil Civ	Mil	Civ	5
.2800	0	200 30	168 0	2	0	6
⊘Casu a	alties estin	nated under da	ylight alert c	onditions.		7
14. RECOM	MENDED '	WEAPONS AI	D SORTIES:			8
for weapons ap area. To show total weapons/	plication. v the effort sorties rec	required to a	sorties have chieve the dan target are a	been compu mage level ; lso shown:	ted for each prescribed,	10 11 12 - 13
required over	target:					14
WEAPON	250# SNAKEY	500# E or S <u>NAKEY</u>	500# E or <u>BOMB</u>	750 or <u>BC</u>	OMB	15 16
Arca A (890' x 825')	109/9	60/7	70/8	37	7/6	17
Area B (1580' x 980')	214/18	117/13	133/1	5 7:	1/12	18
TOTALS:	323/27	177/20	203/2	3 10	8/18	19
(2) target" requir	Weapons/ rements sh	Sorties opera	tionally requi	red to achie	ve "over	20 21
••	388/32	212/24	244/2	8 13	30/22	22
(3) required over		o achieve a di	amage level o			23 24
WEAPON	250# SNAKEY	500# E or SNAKEY	500# E or <u>BOM</u>	_	OMB	25
Area A	368/31	201/22	236/2	:6 12	25/21	26
	721/60	395/44	447/5	30 2:	37/40	27
Area B					62/61	28
Area B TOTALS:	1089/9	596/66	683/7	,	02/01	
TOTALS:	Weapons	sorties opera	•			29





TAB ABn TO ANNEX C TO APPENDIX A

TARGET NO. 39.44





A-C-ABn-1

Tab APn to Annex Coto Appendix A



1. TARGET NUMBER: 39.44	
	1
2. <u>BE NUMBER</u> : 616-0458	2
3. IDENTIFICATION: Chi Ne Army Barracks	3
4. DATE OF INFORMATION: 28 September 1966 DATE OF TIS: 5 October 1966 DATE OF PHOTOGRAPHY: 7 September 1966 DATE OF INTELLIGENCE REVIEW: 22 September 1966	5 6 7
5. LOCATION: 20-29-08N 105-47-40E, UTM WH 831650, approximately one NM ESE of Chi Ne and 22 NM NW of Nam Dinh.	8
6. <u>DESCRIPTION</u> : This military installation covers approximately 45 acres and is located on Route 21. The site is fenced on two sides and is heavily fortified with trenches and AW positions. There are sproximately 70 buildings in the complex including 41 barracks, 24 support buildings, 3 mess halls, and two administration buildings (one a probable auditorium). On the northern edge of the site is an open storage area. Troop capacity is around 3,000.	10 11 12 13 14 15
7. SIGNIFICANCE: No specific military unit can be identified with this installation; however, the size and apparent activity are significant. The building count has increased by 6 over that noted in 1963 photography, of which at least 5 are barracks.	16 17 18 19
cultivated valley between rugged karst formations. To the north of the target are scattered civilian settlements and to the east are rice fields. Immediately to the cast are rice fields.	20 21 22 23 24
9. DEFENSE ENVIRONMENT:	25
a. Four SAM sites have been identified with SA=2 missile range (17.5 NM) of this target and 21 additional sites are $18=30$ NM distant.	26 27
b. Photography of 8 August 1965 records AAA defenses in this arcs for the first time. Two circular sites were apparently occupied by probable 12.7mm/14.5mm (ZPU-2 or ZPU-4) or 37mm weapons. On the same date, 7 vehicles, possibly BTR-40's mounting 14.5mm ZPU-2's were photographed at Chi Ne Barracks and approximately 1 NM ESE.	28 29 30 31 32
c. Moderate to intense HMG and small arms fire from the trenches and foxholes associated with the barracks is inticipated.	33 34
Name to a state of the state of	35 36 37
the overall NVN posture as related to support of the Viet Cong and PL but would demonstrate the vulnerability of permanent barracks installations dos-	38 39 40 41



A-C-ABn-2

Tab ABn to Annex C to Appendix A

under c	RECUPERAB nan 24 ho anvas or ent could	in ctvi	lien ba		101 01	shrace	g croop	s and a	probably take supplies, eith personnel a	1 her 2 nd 3
	OLLATERA									5
а	. Insign	ificant								6
ь		Populati	on				Casuali	ties*	•	7
	Target	Area A	djacent	Area		Target	Area	Adiace	ent Area	8
	Mi 1	Civ N	11 1	Civ		Mi l	Civ	Mil	Civ	9
	2900	0 1	.00	100		174	0	1	1	10
	*Casua	lties est	imated	under d	ayligh	t aleri	condi	tions.	•	11
14. R	ECOMMENDE									12
scri	area. I	o show to the short to	he effo s/sorti	n. wea It requ es requ	pons a ired t ired o	nd sort o schie ver the	ies have ve the targe	ve been damage t are a	c been deline computed for level pre- liso shown: sorties	- 13 r 14 13 16
WEAPON		250# Snak		_	50# OMB	or ·	500# BOMB	or	750# BOMB	
Area B	(200x250)	19	/2	4	1/3		21/2		13/2	19
Area C	(800×1050) 150	/12	19	8/17	1	02/12		60/10	20
Area D	(250x500)	33	/3	5	9/5		30/3		18/3	21
Area E	(200×250)	19	/2	4	1/3		21/2		13/2	22
Totals		221	/19	33	9/28	1	74/19		104/17	23
, re	(2) Wea equiremen	pons/sor ts shown	ties op	eration	ally re	equired	to ach	ieve "	over target"	24 25
•		270	/23	41	3/35	2	12/24		127/22	26



A-C-ABn-3

Tab ABn to Annex C to Appendix A

(Revised by 11th Note to Holders)

TOP ECRET

·	(3) In order t required over tar	o achieve get:	a deme	age level of 7	0%, we apor	ns/sor	ties	1 2
WEAPO	N	250# SNAKEYE	or	250# BOMB or	500# BOMB	or	750# BOMB	
Area	В	64/5		138/11	71/8		44/7	3
Area	С	507/42		670/56	344/38		202/34	4
Area	D	112/10		200/17	102/11		61/10	5
Area	E	64/5		138/11	71/8		44/7	6
Total	5	747/62		1146/95	588/65		351/58	7
	(4) Weapons/so requirements show	rties oper n above:	ationa	ally required	to achieve	"ove	r target"	8 9
	·	911/76		1398/117	717/80		428/72	10
15.	PROBABILITY OF AC	HIEVING DE	SIRED	DAMAGE LEVEL:	50%			11

TOP CCRET

A-C-ABn-4

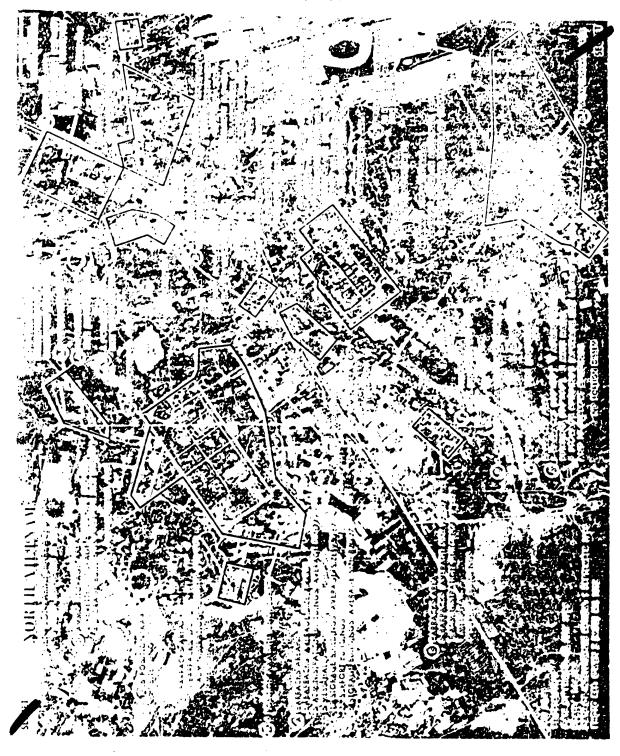
Tab ABn to Annex C to Appendix A

(Revised by 11th Note to Holders)



TAB ABP TO ANNEX C TO APPENDIX A

FARGET NO. 39, 46



TOP STORET
Revised by 10th N/H)

A - C - A Bp - 1

 $\frac{1}{2} \frac{\partial (A_i \partial p_i)}{\partial A_i \partial p_i} = \frac{\Delta (p_i + p_i)}{\Delta (p_i + p_i)} \frac{\partial (p_i + p_i)}{\partial p_i} \frac{\partial$



1. TARGET NUMBER: 39.46	1
2. BE NUMBER: 616-0170	2
3. IDENTIFICATION: Bien Son Army Barracks NNE	3
4. DATE OF INFORMATION: 12 August 1966 DATE OF TIS: 24 August 1966 DATE OF PHOTOGRAPHY: 28 July 1965 DATE OF INTELLIGENCE REVIEW: 1 September 1965	4 5 6 7
5. LOCATION: 20-04-55N 105-51-35E, UTM WH 898205, approximately 1.4 NM N of Bien Son, 12.5 NM SW of Ninh Binh, approximately 14 NM NW of Thanh Hoa.	8 9 10
6. DESCRIPTION: This military installation covers approximately 7 square miles and is on both sides of the Thanh Hoa - Ninh Binh road (Route 1) and railroad. There are 2 large and several smaller barracks and storage areas with an aggregate of approximately 300 buildings. These include approximately 120 barracks, 96 administration/support buildings, 77 storage buildings, 4 revetted possible ammunition storage structures and 10 mess halls. The training facilities include driver-training areas, numerous personnel and communications trenches, bunkers, field artillery and AW weapons emplacements, AAA and mortar emplacements. Many vehicle revetments are also in evidence. The barracks capacity is estimated at 8,600 and the storage capacity is approximately 200,000 square feet.	11 12 13 14 15 16 17 18 19 20 21 22 23
7. SIGNIFICANCE: Order of Battle holds elements of the 304th Infantry Division in this area.	24 25
8. TARGET ENVIRONMENT: This installation is located in an area where flat, cultivated farmland merges with the irregularities of hills and karst formations. There are numerous roads and paths connecting the various areas; and the Song Tong flows through the center of the installation. Small civilian settlements are interspersed among the military areas.	26 27 28 29 30 31
9. DEFENSE ENVIRONMENT:	32
a. Ten SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 12 additional missile sites are 18-30 NM distant.	33 34 35
b. Identified AAA defense activity in the Bien Son area consists of 11 inactive AAA sites.	36 37
c. Intense machine gun/small arms fire from the barracks and training area can be anticipated.	38

TOP ECRET

A-C-ABp-2

Tab ABp to Annex C to Appendix A

(Revised by 10th Note to Holders)

1947



10. DAMAGE OBJECTIVE: Personnel casualties and destruction of facilities. Damago criterion is structural damage to barracks and support buildings with accompanying personnel casualties. Damage level is 30%. 11. EFFECT ON NVN: Disruption of training of regular troops and reduction in support to infiltration activities. 12. RECUPERABILITY: With destruction level at 30%, at least to relocate displaced personnel. There is ample civilian housing within and around this installation to provide shelter for both categories. Several weeks would be required to rebuild the facilities to pre-strike condition; however, it is probable that the temporary accommodations available will be used as long as bombing activity persists. Replacement of supplies would probably require								1 2 3 4 5 6 7 8 9 10 11 12 13		
13.	COLLATI	ERAL D	AMAGE:						15	
		signif.	-						16 17	
·	b.	Popula	ation			Casus	lltie	5 4	18	
	Target	Area	Adjacent	Area	Target			ent Area	19	
	Mil	Civ	Wil	Civ	Mil	Civ	Mil	Civ	20	
	3000	0	200	200	180	0	2	. 2	21	
	*Casual	ties e	stimated	under da	ylight	alert	cond	ltions.	22	
14.	RECOMME	NDED 1	TEAPONS A	ND SORTIE	<u> </u>				23	
weapons a each area	This is a very large barracks complex and is comprised 14 areas. Eleven areas (with 4 sub-areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target over t									
	(1) orties	requir	ed over	ileve a d	lamage	level o	f 30%	, weapons/	30 31	
WEAPON		250# Snab		250# BOMB		500# BOMB	or	750# BOMB		
Area A-1	(1100x2	400) 4	87/41	542/45	;	253/28		163/27	32	
Area A-2	(250x11	00)	62/5	107/9		55/6		32/5	33	
Area B	(300x70	0)	49/4	79/7		41/5		24/4	34	
Area C	(400x60	0)	56/5	80/7		41/5		24/4	35	
Area D-1	(300x60	0)	51/4	82/7		82/9		82/14	36	
TOP SECRE	<u>wr</u>		•	A-C-ABp-	∙3			Tab ABp t Annex C t Appendix	0	

(Revised by 10th Note to Holders)

TOP ECRET								
WRAPON	250# Snakryk	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area E (300x900)	60/5		96/8		49/5		29/5	1
Area F (300x550)	41/3		66/6		34/4		20/3	2
Area G (700x1450)	198/16		236/20		122/14		71/12	3
Area H (900x1400)	244/20		280/23	•	143/16		84/14	4
Area L (450x1000)	95,/8		. 127/11		65/7		38/6	5
Area M-1 (600x1450			211/18		109/12		64/11	6
Area M-2 (400x550)	- • •		75/6		39/4		23/4	7
Area P-1 (750x1450	0) 212/18		249/21		128/14		75/12	8
Totals	1780/147		2230/198	1	1161/129	•	729/121	9
(2) We "over targ	apons/sort et" requir	ies eme	operation to the operation of the shown	oal ab	ly requi: ove:	ed t	o achieve	10 11
	2171/181		2719/229		1415/157		889/148	12
(3) In sorties re	order to quired ove	ach r t	ieve a da arget:	ma g	e level o	of 70	%, weapons	/ 13 14
WEAPON	250# Snarryr	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A-1	1640/137		1830/152		853/95		550/92	15
Area A-2	209/17		361/30		186/21		108/18	16
Area B	165/14		266/22		138/15		81/14	17
Area C	189/16		270/23		139/15		81/14	18
Area D-1	172/14		276/23		276/31		276/46	19
Area E	202/17		324/27		165/18		98/16	20
Area F	138/12		223/19		115/13		68/11	21
Area G	668/56		795,/66		412/46		240/40	22
Area H	823/69		945/79		483/54		283/47	23
Area L	320/27		428/36		219/24		128/21	24
Area M-1	580/48		712/59		368/41		216/36	25
Area M-2	179/15		253/21		132/15		78/13	26
Area P-1	715/60		835/70		432,/48		253/42	27
TOP ECRET			A-C-ABp-	4			Tab Al Annex Append	C to

(Revised by 10th Note to Holders)

WEAPON

250# Snakeye

E or

250# BOMB

500# or BOMB

750# r BOMB

Totals

6000/502

7518/627

3918/436

2460/410

(4) Weapons/sorties operationally required to achieve "over target" requirements shown above:

2

7317/612

9168/765

4778/532

3000/500

4

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%

5

OP SECRET

A-C-ABp-5

Tab ABp to Annex C to Appendix A

(Revised by 10th Note to Holders)

45

1947:RV-2

TAB ABQ TO ANNEX C TO APPENDIX A

TARGET NO. 39.47



SECRET

A-C-ABq-1

Tab ABq to Annex C to Appendix A



1. TARGET NUMBER: 39.47	1
2. BF MIMBER: 617-1511	2
3. IDENTIFICATION: Giap Rong Army Barracks	3
4. DATE OF INFORMATION: 18 Sept 65 DATE OF TIS: 9 November 1965	1
5. LOCATION: 18-49-15N 105-12-00E, UTM WF 209809, approximately 4 NM SW of Phu Van.	7
6. DESCRIPTION: This facility consists of 8 barracks, 2 administration/headquarters buildings, approximately 26 support buildings and 6 storage structures. Five of the barracks and several of the support buildings are enclosed by a fence. There is evidence that 4 additional buildings have been dismantled. To the scuth of the barracks area is a small wooded hill having excavation scars around its base which suggest possible underground starage. An additional 3 probable barracks, located to the SE of the main complex, are connected to both the main barracks area and the excavation area by road and trenches. There are numerous personnel trenches in and around this installation. The barracks capacity is estimated at approximately 660 troops.	10 11 12 12 12 12 12 12 12 12 12 12 12 12
7. SIGNIFICANCE: This facility is to the west of the Vinh Son area military complex and possibly provides some support to the 328th Infantry Brigade. The installation also has access to two main routes to Laos, Routes 7 and 8, and could support infiltration activities.	21 22 21 25
8. TARGET ENVIRONMENT: This installation is located on the eastern edge of Giap Rong village and is surrounded by small fields and or chards. The Song Giang is to the NW of this wite and to the south is a range of low wooded hills.	26 27 28 29
9. <u>DEFENSE ENVIRONMENT</u> :	30
a. No AAA defenses are known to be in the vicinity of this target. The closest sites are over 5 NM to the E and NE in the areas of Phu Van and Vinh Son. These defenses consist of 9 active sites (18 occupied/1 unoccupied 57mm/85mm positions, 9 occupied/11 unoccupied 57mm/85mm positions and 4 occupied HMG positions. In addition, there are 23 inactive sites (53 unoccupied 14.5mm/37mm positions, 48 unoccupied 57mm/85mm positions and 20 unoccupied HMG positions). AW and small arms fire can be expected from the troops manning trenches.	31 33 33 35 36 37 38 39 40
b. There are no SA-2 missile sites within a 60 NM radius of this target.	41 42
	44 44 45

TOP SACRET

A-C-ABq-2

(Added - 5 January 1966)

Tab ABq to Annex C to Appendix A

TOP SECRET

		A. 1			
strike of tration demonstr	on this install support. In	on the Di llation wou addition,	W defense ald probabl	tallation would have posture; however, a ly interrupt infilon would further mparatively isolated	123456
operation would be hills to be accommoded	ake approximation; however, it dispersed to the south.	t is proba the nearb Replacemen	ours to resuble that to village	n level of 30%, it sume limited barracks croops housed here or to the wooded as and supplies could vailable in the Phu	7 8 9 10 11 13 14
13. <u>co</u>	LLATERAL DAMA	GE: Insig	nificant.	•	16
14. <u>RE</u>	COMMENDED WE	PONS AND S	ORTIES:		17
a. sorti	In order to es required o	achieve a ver target	damage lev	el of 30%, weapons/	18 19
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	15/1	37/3	19/2	11/2	20
Area B	33/3	67/5	34/4	20/3	21
Area C	81/7	103/9	53/6	31/5	22
Totals	129/11	207/17	106/12	62/10	23
b. "over	Weapons/sort target"requi	ies operat rement sho	ionally re wn above:	quired to achieve	24 25
	157/13	252/21	129/14	76/13	26
c. sorti	In order to es required o	achieve a ver target	damage lev :	el of 70%, weapons/	27 28
Area A	51/4	125/10	64/7	37/6	29
Area B	111/9	226/19	115/13	68/11	30
Area C	273/23	347/29	179/20	105/18	31
Totals	435/36	698/58	358/40	210/35	32
d. "over	Weapons/sort target" requ	ies <i>o</i> perat irement sh	ionally recown above:	quired to achieve	33 34
•	530/44	851/71	437/49	256/43	35
15. PRO	DBABILITY OF	ACHIEVING	DESIRED DA	MAGE LEVEL: 50%.	36

TOP CRET

A-C-ABq-3 .

Tab ABq to Annox C to Appendix A

(Added - 5 January 1966)



TAB ABS TO ANNEX C TO APPENDIX A



TOP CRET

A-C-ABs-1

Tab ABs to Annex C to Appendix A



1. TARGET NUMBER: 39.49	1
2. <u>BE NUMBER</u> : 617-1324 617-1569	2
3. IDENTIFICATION: Quang Khe Army Bks	4
4. DATE OF INFORMATION: 1 November 1965 DATE OF TIB:	5
5. LOCATION: 17-41-58N/106-29-20E and 17-41-10N/106-30-00E UTM XE 581573 and XE 590563	, 7 8
of the Song Giang and immediately to the east and southeast of the Quang Khe Naval Base (JCS #74A). The site is comprised of two rather widely separated barracks areas. The larger concentration of buildings (BE 617-1324) is partially fenced barracks-type structures, 1 mess hall, 1 storage/support building, 2 small utility buildings, and 1 building of undetermined use. There are about 7 unidentified structures, 3 quarters/support buildings and storage/support buildings located outside and nearby the partially fenced area. The smaller barracks area (BE 617-1569 is located to the SE and contains 3 barracks and 4 support buildings. The two barracks sites are connected by road. The estimated barracks capacity of the two areas is approximately 800 troops.	12 13 14 15 16 17
7. SIGNIFICANCE: No specific military unit can be identified with this target. Troops accommodated here are probably security forces and could support both the naval base and coastal defense activities.	25 26 27 28
8. TARGET ENVIRONMENT: These facilities are located in the flat sandy area at the mouth of the Song Giang and petween Route 1 and the Gulf of Tonkin. Civilian settlements and rice fields lie to the west of the target and a range of scrub-covered hills are located to the south.	29 30 31 32 33
9. <u>DEFENSE ENVIRONMENT</u> :	34
a. There are no known SAM defenses in this area.	35
b. Identified AAA defense in the Quang Khe area consist of four 57mm/85mm sites (3 occupied/15 unoccupied positions) and seven 37mm sites (3 occupied/26 unoccupied positions). Occupied HMG positions have been noted in the area.	36 37 38 39
c. AW and small arms fire can be anticipated from both barracks areas.	40 41
d. This target does not lie within the NVNGCI capability.	42
10. DAMAGE OBJECTIVE: Personnel casualties. Damage riterion is destruction of barracks, storage and support tructures with accompanying personnel casualties. Damage evel is 30%.	745 45 46



A-C-ABs-2

Tub ABs to Annex C to Appendix A



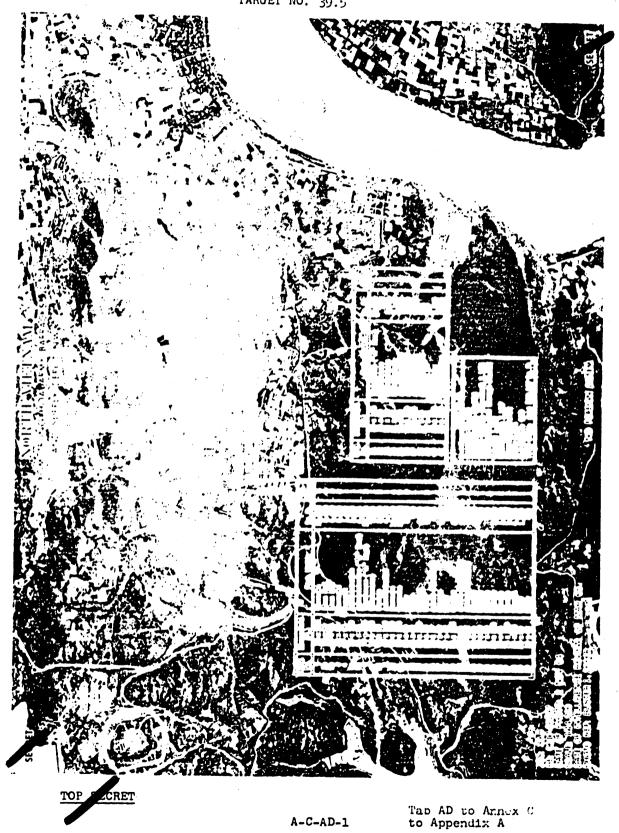


remporaril	CT ON DRV: y reduce the ould not ap	he coasta]	defens	e canab	174tv	would in this DRV defense	1 2 3 4
reconstructed with personnel	could be a	ours; howe require 2 wartered 1	ver, cl weeks n nearb	earing of more, v civil	of deb Dis	ris and	5 6 7 8 9
13. COLL	ATERAL DAMA	Insi	gnifica	nt.	•		11
14. RECO	MENDED WEA	PONS AND	SORTIES				12
This target complex is comprised of four areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target area also shown:							
() weapo	l) In order ons sorties	to achie required	ve a da over t	mage lev arget:	el of	30%,	18 19
Weapon	250# Snakeye	250 or <u>BOM</u>		500# BOMB		750# BOMB	
Area A	22/2	54	/4	28/3		16/3	20
Area B	58/2	95	/8	49/5		29/5	21
Area C	14/1	37	/3	19/2		11/2	22
Area D	23/2	43	/4	22/3		13/2	23
Totals	117/10	229	/19	118/13		69/12	24
(2 achie	?) Weapons/ eve "over t	sorties o arget" re	peration quiremen	nally re nt shown	quire	d to e:	25 26
	143/12	279	/23	144/16		84/14	27
(3 weapo) In order ns/sorties	to achie required	e a dan	mage lev arget:	el of	70%,	28 29
Weapon	250# Snakeye	or BOM		500# BOMB	or.	750# BOMB	
Area A	75/6	183	1 5	95/11		54/9	30
Area B	196/16	321,	2 7	166/19		98/17	31
Area C	48/4	125	11	65/7		38/6	32
Area D	78/7	146,	12	75/8		44/7	33
Totals	397/33	775	65	401/45	. 4	234/39	34
(4 achie) Weapons/ ve "over to	sorties of arget" re	eration uiremen	nally re	quired above	i to	35 36
	484/40	945	79	489/54	2	285/48	37
15. PROBA	BILITY OF	ACHIEVING	DESIREI	DAMAGE	LEVE	<u>L</u> : 50%	38

(Added - 5 January 1966) Tab ABs to Annex C to Appendix A



TAB AD TO ANNEX C TO APPENDIX A TARGET NO. 39.5



1 2

TARGET INFORMATION AND STRIKE DATA

•	
1. TARGET NUMBER: 39.5	
2. <u>BE NUMBER</u> : 617-0237	;
3. IDENTIFICATION: Xom Trung Hoa Army Barracks and Supply Depot NW	
4. <u>DATE OF INFORMATION</u> : 23 Jan 1965 <u>DATE OF TIS</u> : 12 May 1965	1
5. LOCATION: 18-42-40N 105-28-36E, UTM WF 503687. 12 NM www.of.Vinh.	
6. DESCRIPTION: This installation contains two general areas, the main depot site and the barracks/support area. The installation has an aggregate of 81 major structures and is dispersed over a wide area. A storage and support area is located at the extreme eastern end of the complex and on the banks of the Song Ca. There are 2 groups of buildings in this area which comprise 7 warehouses, 1 administration building, a mess hall, 7 storage buildings and 4 support/maintenance type structures. There are also 2 guardhouses and 2 small ammunition storage buildings in this general area. The barracks and support facilities and additional storage are located approximately .5 NM to the northwest. The barracks areas contain a total of 23 barracks, 2 administration buildings, 3 mess halls and approximately 15 support/storage structures. The storage area contains 3 warehouses and 1 maintenance type building. Adjacent to the area is a revetted ammo storage building. The areas within the complex are road and water served. The estimated capacity of this installation is approximately 93,000 sq ft storage space and 1,350 troops.	101111111111111111111111111111111111111
7. SIGNIFICANCE: Target is located midway between Vinh and the Vinh Son Military Complex which serves the 324th Inf Bde. The installation has access to Route 7 and Route 8, both of which are main avenues for North Vietnamese support of operations in Laos.	29 30 31 32 33
8. TARGET ENVIRONMENT: Target is bounded on the north by generally flat lowland bordering the Song Ca River. To the south is a small range of wooded hills and Xom Trung Hoa village is approximately 1.4 NM southeast of the installation.	34 35 36 37 38
closest radar is also in the Vinh area and consists of 2 FIRE CAN, 1 KNIFEREST B, 1 RUS, 1 SCR-270 and 1 SCR-584.	39 40 41 42 43
to storage buildings and accompanying damage to contents	44 45 46 47

A-C-AD-2

Tab AD to Annex C to Appendix A



TOP SECRET

		•					
barractions unoccur billet accompto sever to the be accompton.	n inflitrath recuperabilities portion (within 24 hopied space ting is used lished with recal militan north. Per	ors. ITY: With of the depours. Adjusto accommod. Replacer in 24 hours ry installs olacement of	30% destruction of could proceed areas late troops ment of per since the ations with of stored s	on support of historicall action achieved by resum a contain sufficient out of target has in the Vinhupplies coulding upon avoiding upon avoid	y supported ed, the e opera- ficient ield be road access Son complex	34567	
13.	COLLATERAL I	AMAGE: In	significan	t.		13	
14. RECOMMENDED WEAPONS AND SORTIES:							
						14	
ares leve	To show prescribe target is a	the effort d, total w lso shown.	required eapons/sor	x comprised on computed in to achieve the ties required	for each ne damage l over	15 16 17 18 19	
W	(1) In or eapons/sort 250#	res reduir	ed over ta		30%	20 21	
Weapon:		250# or <u>BOMB</u>	500# or <u>BOMB</u>	750# or <u>BOMB</u>			
Area A	60/5	78/7	40/5	24/4		22	
Area B	60/5	96/8	.57/7	39/7		23	
Area C	91/8	116/10	60/7	35/6		24	
Area D	60/5	78/13	40/5	24/4		25	
Area E	34/3	57/5	29/4	15/3		26	
TOTALS:	305/26	425/36	226/26	139/24		27	
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:							
	372/32	518/44	276/32	170/29	. :	30	

TOP SECRET

A-C-AD-3

Tab AD to Annex C to Appendix A

TOP SECRET

(3) In order to achieve a damage level of 70% weapons/sorties required over target:							
Weapon	250# SNAKEYE o	250# or <u>BOMB</u> or	500# r <u>BOMB</u> or	750# r BOMB			
Area A	202/17	263/22	135/9	81/14	3		
Area B	202/17	324/28	192/22	132/22	4		
Area C	307/27	392/33	202/23	118/20	-5		
Area D	202/17	263/22	135/15	81/14	6		
Area E	115/10	192/16	98/11	58/10	7		
TOTALS	1028/86	1434/120	762/85	470/79	8		
	(4) Weapons	/sorties of requirement	perational: t shown abo	ly required (to achieve 9		
	1254/105	1749/146	929/104	573/96	11		
15.	PROBABILITY OF	ACHIEVING	DESIRED DA	MAGE LEVEL:	50%. 12		



TAB ADa TO ANNEX C TO APPENDIX A

TARGET NO. 39.51



TOP STERET (Rew red by 11th N/H)

A-C-ADa-1

Tab ADa to Annex C to Appendix A



1. TARGET NUMBER: 39.51	1
2. BE NUMBER: 617-1138	2
3 IDENTIFICATION: Nam Son Barracks	3
4. DATE OF INFORMATION: 12 August 1966 DATE OF Tis: 7 September 1966	4
IM IF OF BUOTES ASSISTED IN 1966	5
DATE OF PHOTOGRAPHY: 3 April 1966	6
DATE OF INTELLIGENCE REVIEW: 2 May 1966	7
5. LOCATION: 18-44-47N 105-43-34E, UTM WF 786708,	8
approximately 5.5 NM NE of Vinh.	9
6. DESCRIPTION: This installation is fence-secured and contains	10
approximately y major buildings including one large multipetons and one	11
single-story administration buildings. 4 harracks, two suppose buildings	12
and a nices have inerciate several small structures inco outside about and	13
and two additional buildings appear to be under construction. As additional	14
	15
o the 1905 photography. A communication trench extends from and	16
"" Unit of the site of a wooded area nearby. AAA defense positions	17
outs to the southeast of the southeast of the southeast of the to more	18
The barracks capacity is estimated at around 230 troops.	19
7. SIGNIFICANCE This installation is possibly associated with the	20
2.18 indespendent intentry Division which is reportedly in the Vinh news	21
A Dogramic Officers School and an Intelligence Language School are also	22
believed to be in this general area.	23
8. TARGET ENVIRONMENT: This installation is located in the coastal	24
lewished just west of the Song Ca. The area is heavily cultivated and long	
parrow stretches of rice paddies are detted with small farm villages.	25
	26
9. DEFENSE ENVIRONMENT:	27
4. No SAM sites have been identified within SA-2 missile range	28
(17.5 NM) of the target. However, 5 SAM sites have been identified	29
betwee: 16-:0 NM distant.	30
	•
bdentified AAA activity in the Vinh area includes 40 active	51
AAA sites, consisting of 73 cicupied 57mm/85mm revetments and	32
129 or capled 37mm reverments. In addition, there are 95 tractive	33
Bites in the area. (DOI: 17 June 1965 - 21 July 1966)	34
c. Intense HMG and small arms fire is anticipated from numbers	35
of troops and prepared AW positions.	36
	20



A-C-ADa-2

Tab ADa to Annex C to Appendix A



10. DAMAGE C						esulting	1 2
11. EFFECT O effect on the NVN disrupted and the v further demonstrate	defense posture Julnerability of	; however,	possible	e training	would	be	3 4 5 6
operations within a be dispersed to ne		er, activiti	uld prob ies invol	ably resu ved here	me lim would	ited probably	7 8 9
13. COLLATE	RAL DAMAGE:					•	10
a. None							11
ь.	Population			Casualt	ies*	•	12
Target	Area Adjace	nt Area	Target	Area A	Adjacen	t Area	13
Mil	Civ Mil	· Giv	Mil	Civ 1	Mil	Civ	14
200	0 30	25	12	0	0	0	15
« Савиа	ilties estimated	l under däyl	light ale	rt conditi	ons.	•	16
14 RECOMMI	ENDED WEAPO	NS AND SC	RTIES:				17
a. In order to achieve a damage level of 30%, weapons/sorties required over target:							18 19
WEAPON	250# Snakeye	250# or BOM	B or	500# BOMB	or	750# BCMB	
Area A (200x450)	26/3	52/	5	27/3		16/3	20
	ns/sorties ope rements shown		equired	to achiev	e Pove	r	21 22
	32/3	63/	દ	33/4		20/4	23
In ord	er to achieve a rtarget:	damage le	vel of 70	%, weap	ons/sor	ties	24 25
WEAPON	250# SNAKEYE	250# or BOM		500# BOM B	or	750# BOM B	
Area A	88/8	175/	15	91/11		54/9	26
	ons/sorties operements shown		required	to achie	ve "ove	.	27 28
	107/9	213/	18	111/1	3 .	66/11	29
15. PROBAB	LLITY OF ACH	IEVING DE	SIRED D	AMAGE	LEVEL	<u>.</u> : 50%	30



A-C-ADa-3

Tab ADa to Annex C to Appendix A



FAR AE TO ADDEX 7 DO AFPENDIX A



1. TARGET NUMBER: 39.6	1
2. B.E. NUMBER: 617-0805	2
3. IDENTIFICATION. VIIII 22	3
4. DATE OF INFORMATION: 2 June 1905 DATE OF 125.	4 5
5. LOCATION: 17-03-00N 108-50-40E, UM 402 15 1010556 .6 NM SW of Chap Le.	6 7
6. DESCRIPTION: This is an active military and ide of the Ben Xe river containing 6 barracks-type buildings, as were and an administration building, an administration buildings. It has a gate house and other miscellaneous small buildings. It has a capacity for 400 troops and 300 tons of supplies. On the river bank is a probable landing area for supply boats. Along the road leading N are 7 severted vehicle emplacements and the road leading N are 7 severted vehicle emplacements and further north are several training revetments. 1 NM ESE on the S bank of the river is a barracks area approximately the same size (400-500 troop capacity) and with trenches and field fortifications adjacent on an EW trending ridge.	8 9 10 12 13 14 15 17 18 19
7. SIGNIFICANCE: Part of the Demarcation Bond Vietnam. Probably also support troops infiltrating into South Vietnam.	21 20
Gulf of Tonkin. Approximately 2.5 km kw of the best	24
9. <u>DEFENSE ENVIRONMENT</u> : There are 7 active AAA sites in the Vinh Linh-Chap Le area consisting of 28 occupied 14.5mm/37mm positions. In addition there are 36 inactive sites consisting of 155 unoccupied positions. There are no occupied HMG sites. Four EW radar are in the Vinh Linh area. Heavy small arms fire can be anticipated from troops in the area.	27 28
10. <u>DAMAGE OBJECTIVE</u> : Structural damage to barracks, administration and storage buildings with accompanying personnel casualties. Damage level is 30%.	32 32 33
11. EFFECT ON DRV: Reduce level of DMZ defense capability immediately N of 17th parallel and infiltration support to South Vietnam.	31
12. RECUPERABILITY: Barracks area would probably be operational in 12 to 24 hours as there is ample room for field billeting. Destroyed supplies would take from 24 to 72 hours depending on priorities.	3334
13. COLLATERAL DAMAGE: Insignificant.	4
14. RECOMMENDED WEAPONS AND SORTIES:	4
a. In order to achieve a desired damage level of 30%, weapons/sorties required over target:	4



A -C-AE-2

Tab AE to Annex C to Appendix A



Weapon:	SNAKEYE	250# 555/18	500// BOM3	750# BOMB	
	171/14	199/17	102/11	60/10	. 1
b. Weapo "over targe	ns/sorties t" require	operati ments sh	onally rown abov	equired to achieve e:	2 3
	209/17	243/21	124/13	73/12	4
c. In or weapons/sor	der to ach	ieve a d red over	esired d target:	amage level of 70%,	, 5
Weapon:	250# SNAKEYE	250# BOMB	500// BOM3	750# BOMB	
	576/48	671/56	344/38	202/34	. 7
d. Weap	ons/sortie: et" require	operati	lonally i	required to achieve ve:	8 9
	702/59	012/65	420/46	246/41	10
14. MOBABI	LITY OF AC	II.NING I	DAMAGE L	EVEL: 50%.	11

TOF : PRET

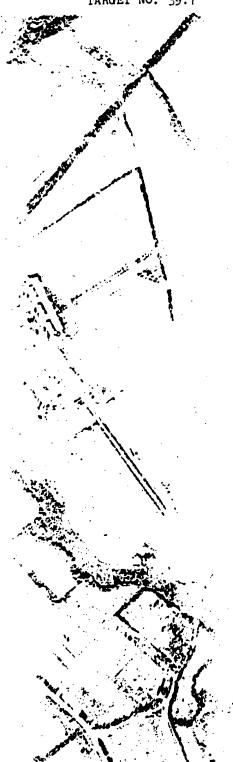
A-C-AE-3

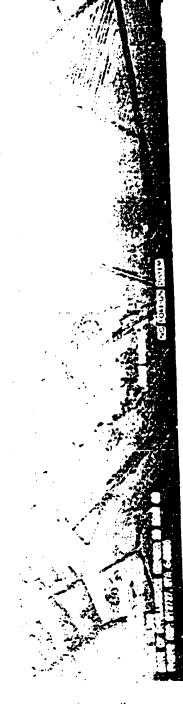
Tab AE to Annex C to Appendix A



TAB AF TO ANNEX C TO APPENDIX A

TARGET NO. 39.7





TOP SECRET

A-C-AF-1

Tab AF to Amex " to Appendix A

1. TARGET NUMBER: 39.7	1
2. BE NUMBER: 617-0226	2
3. IDENTIFICATION: Vinh Linh Army Barracks E Lien Cong	3
A TAPE OF THEORMATION! 2 MALECO 1900.	4 5
5. LOCATION: 17-03-16N/107-02-40E, UTM YD 173873	6
also include a mess hall and air explosives storage building. Many small storage and support-type structures are scattered throughout the area immediately surrounding the barracks. The installation appears to be partially enclosed; however, type of enclosure cannot be determined. The estimated capacity of the barracks is approximately 1,000 troops.	78 90 11 12 13 14 15 16
component of the 270th Independent of carried heavily overstrength at an estimated total of 5,000.	17 18 19 20 21
8. TARGET ENVIRONMENT: The target is located in probable	22 23 24
9. DEFENSE ENVIRONMENT:	25
a. Defenses for the installation consist of personnel trenching with firing bays and AW positions are located along the perimeter of the installation. Foxholes and AW positions are also located at strategic points within the installation. There are 28 AAA sites in the Vinh Linh-Chap Le area, having a total of 120 light positions; however, on 5 March 1965 only 5 sites with 18 positions were active.	26 27 28 29 30 31 32
b. Within a 10 NM radius of Vinh Linh are three EW radar: A KNIFEREST B, a RUS-2, and a SCR-270. Early warning detection capabilities are:	33 34 35
(1) 60 NM for A-1 and F-101 aircraft at 3,000 ft.	36
(2) 80 NM for A-1 and F-101 aircraft at 5,000 ft.	37
(3) 120 NM for F-101 aircraft at 15,000 ft.	38
10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is structural damage to barracks and administration and storage buildings with accompanying personnel casualties and destruction of supplies. Damage level	39 41 42 43



TOP ECRET

11. EFFECT ON NVN: Thirty percent damage level would reduce the support for DRV troops immediately north of the DMZ and could probably reduce the support for Viet Cong forces in the W part of South Vietnam.	1234
12. RECUPERABILITY: With 30% destruction achieved, the organization could probably resume operations within 24 hours, assuming temporary accommodations are set up under canvas. Replacement of personnel and supplies could probably se obtained within 1-3 hours from other elements of the Vinh Linh Military Complex, depending upon svailability and priorities.	5 6 7 8 9 10 11
13. COLLATERAL DAMAGE: Insignificant	12
14. RECOMMENDED WEAPONS AND SORTIFS:	13
a. In order to achieve a damage level of 30%, weapons/ sorties required over target:	14 15
250# 250# 500# 750# Weapon: <u>SNAKEYE</u> or <u>BOMB</u> or <u>BOMB</u>	
40/3 ε ⁴ /5 33/4 20/3	16
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	17 18
49/4 78/6 40/5 24/4	19
c In order to achieve a damage level of 70%, weapons/sorties required over target:	50
135/12 216/18 111/12 68/11	55
d. Weapons/sorties operationally required to achieve "over target" requirement shown above:	23 24
165/15 263/22 135/15 83/13	25
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.	26



TAB AG TO ANNEX C TO APPENDIX A

TARGET NO. 39.8



A-C-AG-1

1. TARGET NUMBER: 39.8	1
2. <u>BE NUMBER</u> : 617-0225	2
3. TOTATIFICATION: Vinh Linh Army Barracks NW Xom Cho	3
4. DATE OF INFORMATION: 5 January 1965 DATE OF TIS: 15 Feb 66	4 5
5. LOCATION: 17-04-10N/107-00-48E, UIM YD 103916	6
6. <u>DESCRIPTION</u> : Vinh Linh Army Barracks NW, Xom Cho, are part of an active military complex in the vicinity of Vinh Linh. There are three separate areas within the installation. Area 1 contains 27 barracks, 5 warshouses, 3 supply buildings, 1 administration building, a ressible parade ground. Route 1 separates areas 1 and 2. Area 2 contains 1 administration building, 3 warshouses, 7 support buildings, and probable open storage. Area 3 is to the east of area 1 and contains the following: 3 barracks, 2 administration building, 12 shed-type revetments, a probable motor pool, a parade ground and a probable open storage area. To the north of the installation is a training area containing fox holes, trenching and evidence of AAA training.	7 8 9 10 11 12 13 14 15 16 17 18 19
7. SIGNIFICANCE: These facilities probably accommodate elements of the 270th Independent Infantry Regiment which is currently carried heavily over-strength at an estimated total of 5000. This target can house approximately 1,200 personnel.	20 21 22 23
8. TARGET ENVIRONMENT: This target is approximately .8 NM WINW of Vinh Linh and is bisected by Route 1. The surrounding terrain is flat intensively cultivated lowland with scattered small villages.	24 25 26 27
9. DEFENSE ENVIRONMENT:	28
a. There are 5 active AAA sites in the Vinh Linh - Chap Le area made up of 16 occupied/2 unoccupied 14.5-37mm positions and 23 inactive sites with 106 unoccupied 14.5-37mm positions.	29 30 31 32
b. The major areas of the target are secured both by fencing and trenches. AW fire should be anticipated.	33 34
c. There are 3 EW radar within a 10 NM radius of Vinh Linh.	35 36
10. <u>DAMAGE OBJECTIVE</u> : Personnel casualties. Damage criterion is structural damage to barracks, administration, and storage buildings with accompanying personnel casualties. Damage level is 30 percent.	37 38 39 40
11. EFFECT ON DRV: Thirty percent damage level would reduce the support for the DRV forces immediately north of the DMZ at the 17th parallel and would probably reduce supthe DMZ at the Cong forces in the NW part of South Vietnam.	41 42 43



A-C-AG-2

Tab AG to Annex C to Appendix A

TOP _CRET

12. <u>REC</u> tional wi billeting	th 6 to 12 h	Barracks a ours as thei	rea would re is ample	probably be opera- space for field	1 2 3
13. COL	LATERAL DAMA	GE: Modera	te to surre	ounding area.	4
14. <u>REQ</u>	OMMENDED WEA	PONS AND SOL	RTIES:		5
areas. area. level	Weapons ar	ki sorties hi effort requ total weapon	ave been co	mprised of three omputed for each-chieve the damage required over the	6 7 8 9
• Wea	(1) In order	to achieve required o	a damage ver target	level of 30%	11 12
Weapon:	250# SNAKEYE O	250# r <u>20113</u> er	<u>£0√B</u> or €00%	750# <u>Ро́мв</u>	
Area A	101/8	130/11	6 7/8	39/6	13
Area B	57/5	86/7	44/5	26/4	14
Area C	69/6	108/9	56/6	33/6	15
TOTALS:	227/19	324/27	167/19	98/16	16
"o	(2) Weapons	/sorties operequirement	erationally shown above	y required to achiev	ve 17 18
	277/23	395/33	204/23	120/20	19
we	(3) In orde	er to achieves required	e a damage over targe	level of 70% t:	21 20
Weapon:	250# Snakeye	250# or <u>BOMB</u> or	500# <u>BOMB</u> or	750# <u>BOMB</u>	
Area A	340/28	438/37	226/25	132/22	22
Area B	192/16	290/24	148/17	88/15	23
Area C	233/19	364/30	189/21	111/18	24
TOTALS:	765/63	1092/91	563/63	331/55	25
"((4) Weapon	s/sorties or requirement	erationall shown abo	y required to achie	ve 26 27
	933/77	1332/111	687/7.7	404/67:	28
15. Pl	ROBABILITY O	F ACHIEVING	DAMAGE CR	ITERIA: 50%.	29





1. TARGET NUMBER: 40	1
2. <u>BE NUMBER</u> : 617-0491	સ
3. IDENTIFICATION: Phu Qui Ammunition Depot SW	3
4. DATE OF INFORMATION: 4 April 1965 DATE OF TIS: 24 June 1965 DATE OF PHOTOGRAPHY: 4 April 1965 DATE OF INTELLIGENCE REVIEW: 27 April 1965	4 5 7
5. LOCATION: 19-17-42N 105-23-02E, UTM WG 403335 (3.7NM SW of Phu Qui (Nghia Hung). 16NM NW of coastal railway and 37NM SW of Thanh Hoa).	3 3 10
and is secured by a double row of fencing. Areas within the target complex contain a total of 20 dispersed storage buildings. There are also 2 support/barracks type buildings and several smaller support/storage buildings and sheds. Ammo storage capacity is estimated at approximately 7,110 metric tons. However, certain characteristics such as camouflaging, heavy security, and minimum revetting indicate storage of other than explosive munitions. The troop capacity is estimated at 150 personnel. A possible underground storage facility may be located under the wooded ridge N of target area A. Entrances to this site appear as cleared spaces on the NW slope, with road access to the target.	
7. SIGNIFICANCE: Phu Qui Ammunition Depot, only 38NM NE of the Laotian border, could provide support to the PL/VC, using the Son Ca River for shipment of ammo from Phu Qui to Lang Binh and Route 7 from there into Laos. The area is relatively isolated from known military installations, being closest to elements of 324th Brigade to the south.	24 25 26 27 28 29
8. TARGET ENVIRONMENT: The target is located in the foothills of the Song Con River valley, with medium cultivation and small civilian populated areas surrounding it. It is one element of a military complex that comprises an army barracks 3NM NW of the ammo depot, and an army barracks/supply depot and supply depot within the town of Phu Qui (Nghia Hung).	0123456
9. DEFENSE ENVIRONMENT:	37
a. There are 4 inactive 4-position AAA sites (suitable for 14.5mm-37mm) located adjacent to the depot outside the perimeter fence. There are also AW (probably 12.7mm and lighter) positions in the adjacent peripheral area. (DOI: 4 April 1965)	399944
b. The 120th Infantry Regiment has been reported in the Nghia Hung area. A military area, capable of housing 3,500 troops, is located 3NM northeast of the target.	45
c. No known radar is located in the target area. EW coverage is best provided by Cap Falaise, Phu Dieu Chau,	4.



A-C-AI-2

Tab AI to Annex C to Appendix A



10. DAMAG Damage crit accompanyin 30 per cent	g damage t	ne hi	t per s	torage	e struc	ture	with	1 2 3 4
11. EFFECT the DRV's seffectiveness	T ON DRV: support to ess of the	the P	L/VC an	d als	o reduc	ot wi	ll reduce cover-all	5 7
normal oper could be red destruction	rations usi esumed in a n in North k to normal or rebuildi	ng te bout Vietn	nted st 5 days. am, it ations	orage If may t using	instea there i ake as milita	d of s ger long rv pe	Sacilities, buildings heral as 10 days ersonnel in laced in an	8910 11 12 13 14
13. COLL	ATERAL DAMA	AGE:	Insigni	.fican	t damag	e to	surrounding	15 16
14. RECO	MMENDED WE	APONS	AND SOF	RTIES:				17
and sor	his target ties have l ort require eapons/sor	been o	omputed achieve	i for	each and damage	rea. leve	To snow 1 prescribed	18 19 20 21 22
(weap	l) In order	r to a	achieve uired o	a dar ver t	nage le	vel o	r 30%,	23 24
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	60/5		105/9		105/12	• •	105/18	25
Area B	113/10	•	150/13		77/9		45/8	26
Area C	70/6		97/9		97/11		97/17	27
Area D	41/4		72/6		72/8		72/12	23
Area E	79/7		106/9		106/12	!	106/18	29
Totals	363/32		530/46	;	457/52	?	425/73	30
"ove	(2) Weapons er target"	s/sort requi	ies ope rement	ratio	nally r above:	equi	red to achie	ve 3:
	443/37		647/54	ŀ	558/62	2 .	519/87	33
wea	(3) In orde	er to	achieve uired o	e a da over 1	mage le target:	evel	of 70%,	34 35



TOP ECRET

WEAPON:	250# Snakeye	250# or <u>BOMB</u>	500# or <u>BOME</u> o	750# r <u>BOMB</u>	
Area A	203/17	354/30	354/40	354/59	1
Area B	381/32	506/43	260/29	152/26	5
Area C	236/20	327/28	327/37	327/55	3
Area D	139/12	243/21	243/27	243/41	4
Area E	267/23	358/30	358/40	358/60	5
Totals	1226/104	1788/15	2 1542/173	1434/241	۶,
"o	(4) Weapons ver target"	/sorties ope requirement	rationally recally shown above:	quired to achieve	7 8
	1496/125	2181/18	2 1881/209	1749/292	3
15. PR	OBABILITY OF	ACHIEVING D	ESIRED DAMAGE	LEVEL: 50%	10

TOP ECRET

A-C-AI-4

Tah AI to Annex C to Appendix A



478



1. TARGET NUMBER: 41	1
2. BE NUMBER: 617-0080	þ
. IDENTIFICATION: Phu Von Ammonition Depot East	3
DATE OF THE 20 December 1965 DATE OF PHOTOGRAPHY: 3 April 1965 DATE OF INTELLIGENCE REVIEW: 30 April 1965	4567
5. LOCATION: 18-49-56N 105-18-44E, UTM WP 328819, 22.5NM NW of Vinh, 4 NM SSE of Vinh Son, North Vietnum).	8
6. DESCRIPTION: A generally N-S oriented depot area almost /: NM In length, with a median width of 250 yards. Depot ontains 7 (approximately 98' x 37') ammunition storage wildings and 2 smaller storage/support buildings adequately derviced by a secondary road network. Total estimated ammo espacity of the 7 principal buildings is 3,268 M.T. There are at least 3 other small buildings or sheds scattered in the area. No barracks buildings associated with this linstallation. (DOI: 3 April 1965)	10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: Ammunition depot is part of a large military complex in the Vinh Son area serving the 32hth Infantry Brigade and located south of Route 7 between Routes 7 and 8, both of which are main avenues for North Vietnamese support for operations in Laos. It is considered likely that the first function of this depot is to service local 32hth Brigade elements rather than to support the Laos campaign.	19 20 21 22 23 24 25 26
8. TARGET ENVIRONMENT: Depot is located in the low, rolling coastal lowland along the Song Ca (river). Area to intensely cultivated with scattered civilian settlements. Two small settled areas are located within 1/4 NM ENE and NW of the depot. General area contains elements of the 324th Infantry Brigade.	27 28 29 30 31 32
O. DEFENSE ENVIRONMENT:	33
a. There are 1 active and 2 inactive (57mm-85mm) AAA sites (20 positions, 1 occupied) plus 2 unoccupied AW positions in and adjacent to the target installation. (DOI: 3 April 1965)	34 35 36 37
b. Local security/work forces probably number 50-75 persons.	38 39
c. Nearest EW radars are located at Anh Son and in the Vinh area.	40 41
10. DAMAGE OBJECTIVE: Damage criterion is structural damage to buildings and accompanying personnel casualties. Damage level is 30%.	42 43 44
11. EFFECTS ON NVN: 30% damage to this depot would probably reduce the immediate supply of the 32%th Brigade. It is not considered that such reduction would be critical.	45 46 47



Tab As to Annex C to Appendix

(postered by 7th Note to Holders)

TOP CRET

12. RECUPERABILITY: Temporary accommodations could be effected within 7 days.								1 2
13. COLLATERAL DAMAGE: Insignificant.								3
14. RECO	MMENDED WE	PONS	AND SOF	TIES				4
Weapons show th prescri	This is a large target complex comprised of 3 areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:							
(weap	l) In order ons/sorties	r to s req	achieve uired o	a da ver t	mage leve arget:	el of	30%	10 11
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB c		750# BOMB	
Area A	82/7		104/8		104/12		104/17	12
Area B	13/1		32/3		32/4		32/5	13
Area C	4/1		18/2		18/2		18/3	14
Totals	99/9		154/13		154/18		154/25	15
"ove	(2) Weapons er target"	/sort	ies ope rement	rationshow	onally req n above:	quire	d to achieve	16 17
•	118/11		190/16	;	190/22		190/30	18
wea	(3) In orde	r to	achieve quired o	a d	amage lev target:	el of	70%	19 20
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	277/23		350/29)	350/39		350/58	21
Area B	44/4		108/9		108/12		108/18	55
Area C	14/1	•	61/5		61/7		61/10	23
Totals	355/28		519/4	3	519/58		519/86	24
act	(4) Weapon nieve "over	s/sor	ties op et" req	erati uiren	ionally rement shown	equir n abo	ed to	25 26
	435/38		630/5	2	630/71		630/80	27
15. PR	BABILITY C	F ACE	HIEVING	DESI	RED DAMAG	E LEV	EL: 50%	28



A-C-AJ-3

Tab AJ to Annex C to Appendix A TARGET NO. 42



TOP CRET

A-C-AK-1

TablicAR (* Armeis 1) Coll Appendice (A



1. TARGET NUMBER: 42	1
2. BE NUMBER: 617-0953	2
3. IDENTIFICATION Phu Van POL Storage	3
4 DATE OF INFORMATION: 29 October 1965	4
DATE OF TIS: 10 May 1966	5
DATE OF PHOTOGRAPHY: 29 October 1965	6,
DATE OF INTELLIGENCE REVIEW: 27 November 1965	7
5. LOCATION: 18-50-55N 105-19-40E, UTM WF 323827	8 -
6. DESCRIPTION: The target area contains about 14 partially underground,	9
vented bunkers, dispersed in a random pattern in the terrain. There are two	10
principal support buildings. The target area is concealed with heavy vegetation	11
and is road served.	12
7. SIGNIFICANCE: The capacity at this POL site is 1,000 MT. The site	13
7. SIGNIFICANCE: The capacity at this 7 Gard and Pathet Lag forces drawing	14
is strategically placed to support Viet Cong and Pathet Lao forces drawing supplies from this area, as well as regular North Vietnamese forces based at	15
supplies from this area, as well as regular North Victimanico	16
8. TARGET ENVIRONMENT: The target is about 100 feet above sea level.	17
on the lower slopes of an extremely dissected, brush-and-shrub-covered hill,	18
1. 5 nautical miles east-northeast of Phu Van. Very low brush-and-shrub-	19
1 5 nautical miles east-northeast of Phu val. covered hills separated by terraced, rice-cultivated valleys extend 0 6 nautical	20
miles east, 1 3 nautical miles south, and 1.0 nautical miles southwest of the	21
target. Many scattered, compact villages are in the general vicinity	22
9. DEFENSE ENVIRONMENT:	23
a. No SAM sites have been identified within 30 nm of this target,	24
however, aircrews have reported sighting airborne missiles within 10 nm	25
of this location.	26
b. AAA activity identified in the Phu Van/Vinh Son area includes 10	27
	28
57r.m/85mm revetments. (DOI: 18 September 1965 - 28 March 1966)	29
c. Moderate small arms and HMG fire may be expected from local	30
security forces and militia units.	31
10. DAMAGE OBJECTIVE: Destruction of POL stored. Damage criterion	32
is rupture of storage tanks and distortion of exposed piping and equipment.	-
Firing of spilled contents will enhance disability.	34
11. EFFECT ON NVN: Loss of storage capability and POL stocks would	-35
eliminate a resupply point for North Vietnamese regulars. Viet Cong and	36
Pathet Lao forces.	3.



Tab AK to Annex C to Appendix A



manufactorsisting	ty would turing to the con	require ank com struction e on imp	Hever ponent	al m s, st ainte	oration of onths. No cel tubing nance of l rials and	orth ' , pip POL :	/letnam i: ing. pump storage fa	s not l os, or cilitic	known to be other items is. The	1 2 3 4 5 6
13.	COLLA	TERAL.	DAMA	AGE:						7
	a. Ins	ignifican	it							8
	b	Populat	ion			٠	Casua	lties		. 9
,	Target	Area	Adja	cent	Arca	Targe	et Arca	Adj	acent Area	10
	Mil	Civ	Mil		Civ	Mil	Civ	Mil	Civ	11
	50	40	0		90	3	2	0	. 1	12
	Cosua	dties ex	timate	d und	ler daylig	ht ale	rt conditi	ons.		13
14.					NS AND S					14
rec	a. In		achie		damage le			apon	s/surtics	15 16
w EAP	ON	250# SNAK	EYE	or	250# BOMB	or	500# BOMB	or	7504 BOM B	
-		42/4	•		74/6		74/8		74/12	17
lai	ь. W rget" ree	eapons/ quireme	sortica nts sho	ope.	rationally bove:	requ	ired to ac	hieve	"over	18 19
		51/4			90/8		90/10		90/15	20
re		order t over targ		eve a	damage	level	of 70%. w	veapor	is/sorties	21 22
WEAF	PON	250# SNAF	EYE	or	250# BOMB	or	500# BOMB	υr	750# BOMB	
		142/	12		250/21		250/28		250/42	23
ta	d. W	/eapons/ equireme	sortic	s ope	rationally	y req	uired to a	chiev	e "over	24 25
		173/	14		305/25	•	305/34		305/51	26
19	5. PRO	BABILIT	ry of	ACH	IEVING I	ESIR	ED DAM	AGE I	LEVEL: 50%	27



TAB AL TO ANNEX C TO APPENDIX A

TARGET NO. 43



1. TARGET NUMBER: 43	1
2. BE NUMBER: 616-0249	2
3. IDENTIFICATION: Qui Hau Ammunition Depot West	3
4. DATE OF INFORMATION: h July 1965 DATE OF TIS: 15 July 1965	4 5
5. LOCATION: 20-38-06N/105-14-32E, UTM WH 253814 (1 NM NW of Hoi Ha, 13 NM SW of Hoa Binh).	6 7
6. DESCRIPTION: This ammunition storage area is double-fenced and covers over 200 acres. There are 24 probable earth-revetted storage buildings in the site with an estimated storage capacity of 11,500 metric tons. Associated with the depot are 3 barracks and 8 to 12 support-type buildings. Guard posts are evident on three sides of the site.	8 9 10 11 12 13
7. SIGNIFICANCE: Since this depot is only about 35 NM from the Laos border, it could provide support to PL efforts via Route 6, just 8 NM north. This depot also probably supports the ammunition depots in the southern part of North Vietnam.	14 17 15
8. TARGET ENVIRONMENT: This depot is built into a hilly will area on the edge of a cultivated portion of the Song Cai valley. There is a small probable civilian settlement abutting the depot on the north and several villages across the river and some distance away.	19 20 21 22 23
9. DEFENSE ENVIRONMENT: No AAA sites are identified in the immediate vicinity of the target, however, some trenching and AW sites are in evidence. Nearest radar is located at 'am Dinh, where early warning and fire control radars are confirmed.	24 25 26 27 28
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored ammunition. Damage criterion is structural damage to storage buildings and accompanying destruction of stored ammunition. Damage level is 30 percent.	29 30 31 32
11. EFFECT ON NVN Support to the PL would be disrupted and resupply to ammunition depots to the south would be curtailed.	33 34 35
12. RECUPERABILITY: With 30% destruction of facilities, it may take as long as 8-10 days to get back to normal operations. Ammunition could be replaced in an estimated 3-5 days if priorities exist.	36 37 38 39
13 COLLATERAL DAMAGE: Insignificant.	40





TOP CERET

14. RECOMMENDED WEAPONS AN	D SORTIES:	1
a. In order to achieve weapons/sorties required	the damage level over target:	of 30% 2 3
250# 250# Teapon: SNAKEYE or BOMB	500# 750 or <u>BOMB</u> or <u>BOM</u>	
480/40 540/4		ė.
b. Weapons/sorties op "over target" requirement	erationally require	d to achieve 5
	5 660/74 660,	110 7
c. In order to achiev weapons/sorties required	e the damage level	_
	51 1820/202 1820	/340 10
d. Weapons/sorties op "over target" requiremen	erationally requir	
	.84 2220/222 2220	/372 13
15. PROBABILITY OF ACHIEV		



Tab AL to Annex C to Appendix A



TAB AM TO ANNEX C TO APPENDIX A





A-C-AM-1 to Ap

Tab AM to Annex C to Appendix A



1. TARGET NUMBER: 44	1
2. <u>BE NUMBER</u> : 616-0146	ź
3. IDENTIFICATION: Yen Ball Ordnance Depot	3
4. DATE OF INFORMATION: 2 July 1965 DATE OF TIS: 20 June 1966	4. 5
5. LOCATION: 21-42-32N 104-52-58E, UTM VK880005, 21 NM NW of Phu Tho; 58 NM NE of Son La.	6
6. <u>DESCRIPTION</u> : This depot consists of four target areas an contains approximately 200 buildings including 9 HQ/Administration buildings, 52 barracks, 48 storage buildings, and 76 structures associated with ordnance storage, repair and probably assemblage. In addition, there are approximately 90 quarters buildings, at least 50 small miscellaneous buildings and numerous sheds catter d throughout the area.	9 10 11
7. SIGNIFICANCE This target is a major ordnance supply depot capable of serving the Hanor complex or Military Region Northwest across the Red River. Classes of stores handled here are unknown.	15 15 17 18
8. TARGET ENVIRONMENT: This depot is located toward the center of a tongue of land created by a double bend in the Red River. The town of Yen Bullies along the shore of the river. The surrounding territory is mixed farm land and low wooded hills.	19 20 21 22 23
9. DEMENSE ENVIRONMENT: No AAA sites are mown to be in the vicinity of the target nor is there any one end of AW defenses. No military units are known to be in this area: the closest is the 305th Infantry Brigade in the area of Phu Tho. Southeast and along the Red River. The nearest radar is the EW site at Thai Nguyen. The EW radar at Son La and EW/HF radar at Hanoi would also provide cover for this target.	24 25 26 27 28 29 30
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored ordnance. Damage criterion is structure limite to storage buildings and accompanying damage to stored ordnance. Damage level is 30 per cent.	31 32 33 34
11. <u>EFFECT ON NVN</u> : Damage to this target would temporarily disrupt supply to the Hanoi military complex and Military Region NW, and possibly reduce support to the VC/PL.	35 36 37
12. RECUPERARILITY: Limited depot operations could resume within 2 to 3 lays, assuming available military and civilian labor is used to clear debris and erect temporary shelter. Replacement of supplies could be effected within 2 th hours if diverted from the Yen 3on Ordnance Depot approximately 9 NM to the southeast; however, if acquired from China, a week or longer would be required.	38 39 40 42 43 44
13. COLLATELAL DAMAGE: Insignificant.	1:2
14. RECOMMENDED WHAPONS AND SORTIES:	1:6



A-C-AM-2

Tab AM to Annex C to Appendim A

areas. We area. To level pres	apons and	e target complesorties have befort required tal weapons/so	to achieve	the damage	1 2 3 4 5		
(1) In order to achieve a damage level of 30%, weapons/sorties required over target:							
WEAPON	250# Snakeye	250# or <u>BOMB</u> or	500# <u>BOMB</u> or	750# BOMB			
Area A	55/5	74/6	38/4	22/4	8		
Area B	26/2	52/4	27/3	16/3	9		
Totals	81/7	126/10	65/7	38/7	10		
(2)	(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:						
	99/9	154/12	79/9	46/9	13		
(3) weapon	In order s/sorties	to achieve a d required over	amage level target:	of 70%,	14 15		
WEAPON	250# Snakeye	250# oor <u>BOMB</u> or	500# BOMB or	750# BOMB	٠		
Area A	185/15	2,0/21	128/14	75/13	16		
Area B	88/7	176/15	92/10	54/9	17		
Totals	273/22	•	220/24	129/22	18		
(4 "over) Weapons/s target" r	sorties operatiequirement sho	ionally regu wn above:	ired to achie	eve 19 20		
	333/27	520/44	268/29	157/27	21		
15. PROBA	BILITY OF	ACHIEVING DAMA	GE CRITERION	: 50%	22		



JCS 45
BE 0616-00061

DATE OF PHOTO, 9 APRIL 1967

SCALE APPROX 1-6000

DATE OF INTELLIGENCE REVIEW: 22 OCTOBER 1968
PHOTO REFERENCE BSQ522/L2 230

CONTAINS 43 REVETTED AMMUNITION

STORAGE BUILDINGS, AND 18 REVETMENTS

AT UNDERGROUND STORAGE AREA, 4 CAVE ENTRANCES

AZ, AZ, AZ, AS AND AS, WEAPONEERED AREAS

B SUPPORT AREA: CONTAINS 14 SUPPORT BUILDINGS

NO FOREIGN DISSEM



Tab AN to Amex of the Appendix A

1. TARGET NUMBER: 45	• .
2. B. E. NUMBER: 616-0061	2
3. IDENTIFICATION: Hai Phong Ammunition Depot Kien An SW PUG	3
4. DATE OF INFORMATION: 22 October 1968	4 .
DATE OF TISD: 31 January 1969	5
DATE OF PHOTOGRAPHY: 9 April . 967	6
DATE OF INTELLIGENCE REVIEW: 22 October 1968	7
5. LOCATION: 20-48-34N 106-38-24E, 0.5 NM NE of Kien An, 4 NM SE	8
of the Lach Tray (River), 4 NM SW of Hai Phong.	9
6. DESCRIPTION: This deput, a fenced area of about 90 acres, is	10
	11
	12
	13
	14
	15
in the NW part of the facility. Estimated storage capacity of this depot is	16 17
10,000 metric tons.	17
7. SIGNIFICANCE: This is the major ammunition supply depot for	18
7. SIGNIFICANCE: This is the major animal or property ground forces and airfields in the Hui Phong area.	19
8. TARGET ENVIRONMENT: This depot is located just E of Kien An	20
The state of the s	21
	22
and steep ravines. Numerous civilian settlements are in the vicinity of	23
the target.	24
9. DEFENSE ENVIRONMENT:	25
	. 26
a. The target is within the SAM envelope.	
b. AAA activity has been identified within 3NM of the target.	27
c. HMG and small arms fire is anticipated.	20
	29
10. DAMAGE OBJECTIVE: Destruction of stored ammunition.	30
10. DAMAGE OBJECTIVE: Design to the storage buildings, with Damage criterion is structural damage to the storage buildings, with	31
accompanying casualties to personnel and loss of stores	32
Damage level is 30%.	
11. EFFECT ON NVN: Destruction of this depot would temporarily	31
	34
deny support to the ground forces in the Hall hong diversion of the Ha Noi military complex ammunition supplies to this area.	3

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING
A-C-AN-2

(Revised by 16th Note to Holders)

The Allee Annex C to Appendix A

SE RET

12. RECUPERABILITY: If this target is 30% destroyed, limited operations could be resumed within 36 hours, since there is ample space and empty revetments for temporary storage under canvas. Transportation routes are good between other ammunition depots and Ha Noi, and from Ha Noi to Hai Phong; therefore, replacement of destroyed stocks could be accomplished within 2 to 3 days.							1 2 3 4 5
13. COLLA	TERAL DAM	AGE:					7
a. Non	16						8
b.	Population				Casualtie	s#	9
Target	Area Adjad	ent Area	Target .	Area	Adjac	ent Area	10
Mil	Civ Mil	Civ	Mil	Civ	Mil	Civ	11
150	0 50	0	, 9	0	1	0	12
*Casus	alties estimat	ed under dayl	ight alert	condi	tions.		13
	MMENDED W						14
areas) has been have been com achieve the date the target are	puted for each mage level prales also shown: In order to	or weapons and sub-area. escribed, tot achieve a da	pplication To show t al weapon	. We he eff s/sor	apons an ort requi	d sorties ired to iired over	15 16 17 18 19
Weapon:	250#	500# F SNAKEYE C	500# or BOMB	or	750# BOMB		21 22
Area A-2 ' (1145' x 160')	217/18	217/24	490/54		490/82		23 24
Area A-3 (490' x 85')	24/2	24/3	76/8		76/13		25 26
Area A-4 (370' x 140')	9/1	9/1	21/2		21/4		27 28
Area A-5 (350' x 55')	27/2	27/3	97/11		97/16		29 30
Area A-6 (305' x 100')	10/1	10/1	30/3		30/5		31 32
Totals:	287/24	287/32	714/78	3	714/12	0	33
•	(2) Weapons/	sorties opera	tionally r	equir	ed to ach	ieve "over	34 35
target" requi Totals:	rements show 345/29	vn above: 345/38	857/9	5	857/14	.3	36

SECKET

A-C-AN-3

(Revised by loth Note to Holders)

Tab AN to Annex C to Appendix A

required over	• •	achieve a dan	nage level of	70%, weapons/sortics	1 2
Weapon:	250# Snakeye	500# or SNAKEYE	500# or <u>B()MB</u> or	750# BOMB	3 4
Area A-2	732/61	732/81	1654/184	1654/276	5
Area A-3	81/7	81/9	256/28	256/43	6
Arca A-4	28/2	28/3	70/8	70/12	7
Area A-5	89/7	89/10	325/36	325/54	, 8
Area A-6	33/3	33/4	101/11	101/17	9
Totals:	963/80	963/107	2406/267	2406/402	10
target" req	(4) Weapons/ uirements sho		ionally requi	red to achieve "over	11 12
Totals:	1156/96	1156/128	2888/321	2888/481	15
16 50	ODADII ITY C	E ACHIEVING	DESIRED D	AMAGE: LEVEL: 50%	14

SECKET

A-C-AN-H

(Revised by 16th Note to Holders)

The AN AN AN Annex (1.15)
Appendix A



TAB AO TO AIMEX C TO APPENDIX A

TARGET NO. 46



TOP CRET

A-C-A0-1

Tab AO to Annex to Appen Mix A

1. TARGET NUMBER: 46	•
2. <u>BE NUMBER</u> : 616-0476	2
3. IDENTIFICATION: Ban Phieng Hay Ammunition Depot	3
DATE OF INFORMATION: 30 Sandary 1909 DATE OF TIS: 20 Aug 1965	4 5
E 100ATTON: 21-23-50N/103-56-20E. UTM W 902002. ADDIOX1-	<u> </u>
storage buildings, an administration./quarters-type building, 1 support and 1 non-explosive building. Its internal road 1 support and 1 non-explosive building. Its internal road 1	901234
7. SIGNIFICANCE: This target probably supports ammunition language of the Military Region Northwest Headquarters	15 16 17
the Nam Bu River in a wooded hilly area. The southern boundary of the installation abuts a cleared and cultivated area. Small civilian settlements are located along the road to the west and north of the installation. The closest village is Ban Phieng Hay, about 1/2 mile distant. Also to	18 19 20 21 22 23 24 25
9. DEFENSE ENVIRONMENT: There is no known AAA in the vicinity of the target area and no ground defense is evident. The closest AAA sites are located in the vicinity of Son La and comprise 3 active light AAA sites, 2 of which are 4-position and one 6-position, all occupied. The nearest early warning radar (RUS-2) is at Son La.	26 27 28 29 30 31
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored ammunition. Damage criterion is structural damage to storage buildings with accompanying damage to stored ammunition.	32 33 34
11. EFFECT ON DRV: Damage to this ammunition depot would reduce support to the nearby Military Region Hq and curtail supply to PAVN units in this general area.	35 36 37
12. RECUPERABILITY: Limited depot operations could probably be restored within 24 hours after incurrence of damage since there is ample space for temporary storage under canvas. Replacement of destroyed stocks could be accomplished within 36 hours if acquired from the large depot at Ban Nuoc Chieu. If acquired from depots in the east or from China, 7 to 10 days would be required.	38 39 41 42 44 43



A-C-A0-2

Tab AO to Annex C to Appendix A

13. <u>coli</u>	ATERAL DAM	AGE: Insign	ificant.		1
14. RECO	MMENDED WE	APONS AND SO	RTIES:	•	2
areas. area. level :	Weapons at	nd sorties h e effort req total weapo	ave been control	mprised of four omputed for each chieve the damage required over the	34 56 7
Wer	(l) In orde	r to achieve s required o	a demage over target	level of 30%	8 9
Weapon:	250# SNAKEYE C	250# r <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A	24/2	91/8	91/11	91/16	10
Area B	16/2	54/5	54/6	54/9	11
Area C	17/2	63/6	63/7	63/11	12
Area D	17/2	63/6	63/7	63/11	13
TOTALS:	74/7	271/23	271/31	271/46	14
"ov	(2) Wespons er target"	s/sorties operequirement	erationally shown above	y required to achieve	15 16
	98/9	330/28	330/38	330/56	17
wet	(3) In ordapons/sorti	er to achieves required	e a damage over targe	level of 70% t:	18 19
Weapon:	250# SNAKEYE	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A	74/7	306/26	306/34	306/26	20
Area B	54/5	183/16	183/21	183/31	21
Area C	58/5	212/18	212/24	212/36	22
Area D	58/5	212/18	212/24	212/36	23
TOTALS:	244/21	913/77	913/102	913/153	24
"c	(4) Weapor	ns/sorties of requirement	perational: t shown abo	ly required to achievove:	re 25 26
	298/26	1113/94	1113/124	1113/187	27
15. <u>P</u> 1	ROBABILITY	OF ACHIEVING	DESTRED D	AMAGE LEVEL: 50%.	28

TOP PERET

TO THE REPORT OF THE PARTY OF T

A-C-A0-3

Tab AO to Annex C to Appendix A



TAB AP TO ANNEX C TO APPENDIX A

TARGET NO. 47





1. TARGET NUMBER: 47	1
2. BE NUMBER: 616-0555	2
3. IDENTIFICATION: Yen Son Ord and Ammo Depot	3
4. DATE OF INFORMATION: 16 May 1965 DATE OF TIS:	4 5
5. LOCATION: 21-35-40N 104-59-10E, UTM VJ 985878 (1 NM of Yen Son, 1 NM w of Thanh Huong, 9 NM SE of Yen Bai).	6 7
(289,000 sq ft), and 12 support buildings. At the time of photography 57 probable cargo trucks were observed. The support area contains 10 buildings; these are observed. (2 200 sq ft), 1 administration building, 2 support	8 9 10 11 12 13 14
7. SIGNIFICANCE: Yen Son Ammunition Depot is the major ammunition depot in the northwest part of North Vietnam. Since it is just north of the Hanoi-Lao Cai Railroad line, it also provides support to the northern Red River Delta area above Hanoi. The significance of this rail line may indicate, as well, that this depot has a role in China-North Vietnam supply arrangements.	16 17 18 19 20 21
8. TARGET ENVIRONMENT: The depot is in the foothills north of the Red River about 1 MM NF or the Hanoi-Lao Cai Railroad line. There are lightly cultivated areas and small civilian villages near the depot. The Tai Xouan Ammunition Depot 1s 12 NM NE of Yen Son, and the Yen Bai Ordnance Depot 1s 9 NM NE.	234 256 28 28
9. <u>DEFENSE ENVIRONMENT</u> : No AAA defenses are known to be in the vicinity of this target. There are vehicle revetments, trenching and AW positions inside the secured area and additional trenching and AW positions at the north, northwest and south of the depot, outside the secured area. This target lies within the capabilities of HF/EW radar at Hanoi.	29 30 31 32 33 34
10. DAMAGE OBJECTIVE: Destruction of stored ammunition. Damage criterion is structural damage to storage buildings with accompanying damage to stored ammunition. Damage level is 30%.	35 36 37 38
11. EFFECT ON NVN: This may be a base ammo depot receiving supplies directly from China via Lao Cai. Destruction would reduce support to Pathet Laos via Dien Bien Phu and South Vietnam via Moc Chau.	39 40 41 42
12. RECUPERABILITY: Not more than 3-5 days would be needed to resume limited operation. However, if general destruction is inflicted throughout the country it may be 10-15 days before operations can be resumed.	43° 44 45
13 COLLATERAL DAMAGE: Insignificant.	47





4. RECOMMENDED WEAPONS AND SORTIES:							
areas. We area. To level pres	a i Li Aramb wagii wan to achi ave liib wallake						
(1) weapons	In order to a s/sorties requ	chieve a da ired over t	mage level (or 30%,	8		
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMP or	750# BOMB			
Area A	266/22	319/27	163/18	99/17	9		
Area B	356,430	390/33	200/22	117/20	16		
Area C	50/4	77/6	39/4	23/4	11		
Area D	24/2	49/4	25/3	15/3	12		
Area E	32/3	63/5	32/4	19/3	13		
Totals:	728/61	898/75	459/51	273/46	14		
(2) *over) Weapons/sort target" requi	ies operati rement show	onally requi	ired to achie	ve 15 16		
	888/74	1095/91	560/62	333/56	17		
(3) In order to achieve a damage level of 70%, weapons/sorties required over target:							
Weapon:	250# Snakeye or	250# BOMB or	500#	750# BCMB			
Area A	897/75	1076/90	540/60	334/55	20		
Area B	1200/100	1310/109	673/75	394/65	21		
Area C	169/14	260/22	132/15	78/13	22		
Area D	81/7	165/14	85/9	51/9	23		
Area E	108/9	212/18	108/12	64/11	24		
	2455/205	3023/252	1538/171	921/154	25		
	4) Weapons/soneve "over targ	rties operat get" requir	tionally req ement shown	uired to above:	26 27		
~~·	2994/250	3687/307		1123/188	28		
15. PROI	BABILITY OF AC	HIEVING DES	IRED DAMAGE	LEVEL: 50%	29		
-/-							



Tab AP to Annex C to Appendix A



TAB AQ TO ANNEX C TO APPENDIX A

TARGET NO. 47.1



TOP CRET

A-C-AQ-1

Tab AQ to Annex C to Appendix A

1. TARGET NUMBER: 47.1	1
2. BE NUMBER: 616-0651	2
3. IDENTIFICATION: Yen Khoai Army Barracks and Ammo Storage	3
4. DATE OF INFORMATION: 14 July 1966 DATE OF TIS: 20 June 1966	5
5. <u>LOCATION</u> : 21-09-58N/105-22-58E, UTM WJ 397404, 7.2 NM west of Son Tay, 27.5 NM WNW of Hano1.	7 8
6. DESCRIPTION: Target is a military complex consisting of an ammo storage area, a probable support area and a barracks area capable of housing an artillery regiment and support troops. A large training area is just north of the barracks. The barracks area includes an administration building, mess halls, 12 storage/support type buildings, 22 barracks-type buildings, some probable ammo storage sheds and other small support buildings. To the west is a fenced area of approximately 20 acres containing 9 revetted buildings probably used for ammo storage. There are a few other small support buildings in the area and what appear to be guard towers around the fenced perimeter. NE of the barracks area is an area of 19 barracks/support/storage type buildings, one mess hall, and other small malldings. This may be a training remost or a support area. To the NW are other small receips of buildings that appear related to training.	901123456789012234 156789012234
7. SIGNIFICANCE: Artillery units, including artillery schools have long been carried in the Son Tay area. This appears to be a well developed artillery training area with at least a regiment stationed here. Ammo storage area has a capacity of 1000 - 1300 tons.	25 26 27 28 29
8. TARGET ENVIRONMENT: Target is located about 4 MM equidistant between the Red River to the NE and the Black River to the NW where these rivers join forming a hairpin turn. Target is at the edge of flat farming bottom land between the rivers and at the edge of a recently developed reservoir. It is at the edge of wooded higher elevations rising to approximately 4,100 ft 7 NM S. Across the Black River are ridges of 1250 ft 8 NM west and 3400 ft 11 NM southwest. Flat deltaic terrain extends easterly to the coast and low elevations for several miles north to the Claire River.	333333333333333333333333333333333333333
9. DEFENSE ENVIRONMENT:	40
a. Fleven SAM sites have been identified within SA-3 missile range (17.5 NM) of this target and il additional sites are 18-30 NM distant.	41 42 43
b. Identified AAA activity in the Yen Khoai area includes 10 sites (72 revetments) which have most recently been reported as inactive (unoccupied).	44 46
c. Moderate to intense HMG and small arms fire could be anticipated were troops still present in the area. The target has, however, been considered inactive since airstrikes in September 1965.	47 48 49 50

TOP CRET

A-C-AQ-2

Tab AQ to Annex C to Appendix A

(Revised by 9th Note to Holders)



ammo with		casualtic damage to	s to perso o ammo sto	ildings and storage nnel. Damage rage area and admir ldings.	2
officer an	THE BOOK OF THE	19 19 NW.	and allegi	eness of artillery artillery personned reduce capability	5 7 8
A4	JPERABILITY: ng tentage cont of ammo mi	nna de rec	minera Tri E.	etion, normal oper 4 - 48 hours. 5 days.	10 11
13. <u>COL</u>	LATERAL DAMAG	E: Insign	ificant.	•	12
14. REC	OMMENDED WEAT	ONS AND SO	RTIES:		13
areas. area. level	Weapons and	effort rec total weap	nave been mired to	omprised of four computed for each achieve the damage s required over the	14 15 16 17 18
Wee	(1) In order	to achiev required	e a damage over targe	level of 30%	19 20
Weapons	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	21 22
Area A	152/12	210/18	210/23	210/35	23
Area B	34/3	103/9	103/11	103/17	24
Area C	164/14	207/17	106/12	63/11	25
Area D	72/6	100/8	52/6	31/5	26
TOTALS:	422/35	620/48	471/52	407/68	27
	(2) Weapons	/sorties or requirement	perational t shown ab	ly required to achi ove:	L eve 28 29
	515/43	756/59	574/63	496/83	30



A-C-AQ-3

Tab AQ to Annex C to Appendix A

TOP SECRET

₩	(3) In order eapons/sorties	to achiev required	e a damaze over targe	level of 70%	1 2
Weapon	250# SNAKEYE or	250# BOMB or	500# BOMB 01	750# BOMB	
Area A	513/43	708/59	708/79	708/118	3
Area B	115/10	348/29	348/39	348/58	4
Area C	555/46	700/58	359/40	212/35	5
Area D	242/20	337/28	175/19	105/18	6
TOTALS	: 1425/119	2093/174	1590/177	1373/229	7
	•	sorties or	perational t shown ab	ly required to achievove:	re 8 9
	1737/145		1939/216		10
36	PROBABILITY OF	ACHIEVINO	DESIRED I	AMAGE LEVEL: 50%	11

TOP CRET

A-C-AQ-4

Tab AQ to Annex C to Appendix A



TAB Air IV. AIRINGS 110 AFFERNDIX A



1. TARGET NUMBER: 47.11	_
2. BE MIMBER: 0616-00431	2
3. IDENTIFICATION: Hoai An Ammunition Depot	3
106U	4 5
5. LOCATION: 20-25-57N/105-32-45E, UT4 wH 571592	6
6. DESCRIPTION: This depot is dispersed over approximately one square mile and is enclosed by a security fence with sentry houses and small support buildings located at regular intervals. There are 11 large ammunition storage buildings in the complex, 6 in Area A and 5 in Area B. These storage buildings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of approximately 8200 ings have an estimated storage capacity of up to 175 troops. Outside and to the building could house up to 175 troops. Outside and to the south west of the secured area is a barracks and support facility containing 2 administrative buildings, 3 support buildings and 2 barracks-type structures. The barracks have a capacity of up to 145 troops.	78910 112 134 156 178 190
7. SIGNIFICANCE: This depot may well provide the major ammo storage for the 304th Infantry Division located throughout the Ninh Binh area. It is about equidistant (25 NM) between route 1 and route 6 and can support PL/VC operations over these routes.	21 22 23 24 25
8. TARGET ENVIRONMENT: Target is located in a hilly area and is surrounded on three sides by heavy woods. To the west of the installation is a cultivated area and a small village.	26 27 28
9. <u>DEFENSE ENVIRONMENT</u> : No known AAA defenses are located in the target area. Prepared AW positions are evident in the target area. Nearest radar is located at Naui Dinh, where early warning and fire control radars are confirmed.	29 30 31 32
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored materials. Damage criterion is structural damage to storage buildings and accompanying destruction of stored ammunition. Damage level is 30%.	33 34 35 36
11. EFFECT ON DRV: Disruption of ammo support to major PAVN unit (304th Div) as well as support to VC/PL infiltrators.	. 37 . 38
12. RECUPERABILITY: With 30% destruction of facilities it may take as long as 8-10 days to get back to normal operations Ammunition could be replaced in an estimated 3-5 days if priorities exist. Using tented storage instead of buildings operations could be resumed in about 5 days. If there is general destruction on the DRV it may take as long as 10 days, using military personnel for rebuilding.	. 40 . 41 42 43



Tab AR to Annex C to Appendix A

TOP SECRET

13. COLLAT	ERAL DAMAG	E:	Insignific	eant.		1	
14. RECOMM	4. RECOMMENDED WEAPONS AND SORTIES:						
areas. We area. To level pre	eapons and show the	effc otal	rties have ort require weapons/	been compued to achie	Lsed of two ited for each eve the damage quired over	34 56 7	
(1) sortie	In order s required	to a	chieve a cer target:	damage leve	el of 30% weapons/	8	
Weapon:	250# Snakeye	or	250# BOMB or	500# B6MB or	750# BOMB		
Area A	80/7		98/8	98/11	98/16	10	
Area B	65/5		83/7	83/9	83/14	11	
Totals	145/12		181/15	181/20	181/30	12	
"over	Weapons/starget" re	ort:	les operat rement sho	ionally rewn	quired to achieve	13 14	
	177/15		210/18	210/24	210/36	15	
(3) weapon	In order	to a	achieve a uired over	damage lev target:	el of 70%	16 17	
Weapon:	250# Snakeye	or	250# BOMB or	500# BOMB or	750# BOMB		
Area A	270/22		330/28	330/37	330/55	18	
Area B	212/18		280/23	280/31	280/46	19	
Totals	482/40		610/51	610/68	610/101	20	
(4) "over	Weapons/ target" r	sort equi	ies operat	cionally reput	equired to achieve	22 21	
	585/49		745/62	745/83	745/123	23	
15. PROBAI	BILITY OF	ACHI	EVING DESI	RED DAMAGE	LEVEL: 50%.	24	





- TARGET NUMBER: 47.12
- B.E. NUMBER: 616-00323
- IDENTIFICATION: Lang Het Ammunition Depot
- DATE OF THEORMATION: 1 October 1968 TATE OF INTELLIGENCE REVIEW: 16 October 1968

\$00CAT__NN: 01-30-07N (00-00-00 N, 1 ented 5.6 NM ANE 01 No . IN WW of lang Het on Route Ak, the main Po is 1-lang Den read in . . to min Vietnam.

PARCHARION: This amounts is denot constitute of it revenue. storage buildings oriented generally in a RE-Swaxis. The area annears to be rencedivised into a area. There are a reverted on luings in Area A and G in Area B. Estimateu storage capacity in TYPE MT. Area C contains a support suitaings, a possible security willing, and an administration building.

SIGNIFICANCE: The ammunition depot could provide logistical the rt to troops at Kep, Bac Giang and Thai Nguyen. This facility, and ay writed for storing explosives from Communist China.

TARGET ENVIRORMENT: The seminable open to located at the tunible of the Long liet in untails area (7 KM nF) for hot, within the F and whites form a natural plant confirement for the semmentation depot. The area to Calchy filly and wooden with heavy wellvation along the atream Smoot the appet. Phere are no wrong per no near the commandation depot. Kep Airflet: In a BM S of the cond., and elements of the titte inf Div are related S of the depot and figure A to be Noi. Within the target, attending a figure if entural environment for caves.

. DEFENSE ENVIRONMENT:

- The target is within the SAM envelope.
- AAA activity has been identified within 3 NM of the . reet.
 - ... HMC and small orms fire is not anticipated.

10. DAMAGE OBJECTIVE: Destruction of stored ammunition. Damage eterior is structural damage to storage buildings with accompanying sample to stored ammunition.

it. EFFECT ON NVN: Destruction of stores ammunition and storage the littles would delay re-supplying ammunition stocks to damaged encolition depots further S and weste size eliminate secure storage for ow stocks coming in by ratt from Community China. Supply for to on in this general area would also be curtailed.



ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-C-AS-2

(Revised by loth Note to Holders)

Annex C to Appendix A • •

4C



in RECOMMENDATE It would take at least v to 3 days to clear up the damage and store ammunition under canvas in the open. The depot could start distributing ammunition within a day from weatmaged outlyings. As far as replenishing the lost ammunition goes, it would take at least 4 to 5 days to have ammunition shipped in from Communicit China.

13. COLLATERAL DAMAGE:

Population			Casualties*				
Target	Area	Ad.jacent	Area	Target	Area	Adjacent	Area
M1 1	Civ	Mi 1	C1.v	Mil	Civ	Mil	Civ
14,0	ဂ	100	75	9	0	1	1

thomasties estimated under daylight alert conditions.

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 3 areas. Five sub-areas have been delineated for weapons application. Weapons and sorties have been computed for each sub-area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

WEAPON	GOO# SNAKEYE	750# B omb
Area A-1 (575' x 90')	10/1	30/5
Area A-1 (1870' x 295")	66/1	95/16
Arga B-1 (1520' x 90')	22/2	65/11
Area B-2 (1650 x 90!)	24/3	70/12
Area is-3 (1/401 x1601)	20/2	45/8
TOTAL	136/15	305/52

(2) Wempons/sorties operationally required to achieve "over target" requirements shown above:

164/18 366/61

(3) In order to achieve a damage level of 70%, weapons/scrties required over target:



7

8

26

30

31

ALEY KIMP		•	
wandon	',oo# Snakeye	Y',C# BOMB	
Arma A-1	32/4	99/17	
Arria A-0	202/22	320/53	1,
Area B-1	73/8	219/37	٠,
Area B-2	79/9	236/39	.*.
Area B-3	67/7	152/25	?
TOTAL	453/50	1026/171	
target"	(4) Wenpons/sorties operationally requirements shown above:	required to achieve "over	7.
	544/60	. 1232/205	•
15.	PROBABILITY OF ACHIEVING DESIRED	DAMAGE LEVEL: 50%.	.

A-C-AS-4

(Revised by 16th Note to Holders)

1764 Annex C to Appendix A



TAB AT TO ANNEX C TO APPENDIX A TARGET NO. 47.13





1. TARGET NUMBER: 47.13	-
2. <u>DE NUMBER</u> : 616-0316	2
3. IDENTIFICATION: Tai Youan Ammunition Depot SE	3
4. DATE OF INFORMATION: 23 April 1969 DATE OF TIS: 15 Pebruary 1966	4 5
5. LOCATION: 21-43-19N/105-08-00E, UTM 48Q WK 136024, 1 NM SE of Tal Xouan, 7.5 NM SW of Tuyen Quang, 20.3 NM NNW of the Phu Tho on the Red River, and approximately 5 NM NW of Route 2.	3 7 8 9
6. DESCRIPTION: The ammunition depot covers an irregularly shaped area of approximately 350 acres and is served by a network of internal roads. The area is fenced and there are 2 guard stations, one at the NE and one at the SE ends. There are 2 probable gate houses at the double fenced west entrance. The complex contains five target areas. There are 4 anmunition storage buildings in Area A, 6 in Area B, 4 in Area C, 2 in Area D, and 4 in Area E.' Southwest of Area C is a barracks and support area containing 2 barracks/support-type buildings, 2 gate houses, a probable vehicle shed, an administrative/headquarters buildings and one quarters building. The quarters fall within target area "C". The estimated storage capacity of this depot is approximately 7700 metric tons. The barracks can house up to 300 troops.	10 11 12 13 14 15 16 17 18 19 20 21 22 23
7. SIGNIFICANCE: This ammunition depot may support the 246th Ind Inf Regt in the Tuyen Quang area and elements of the 305 Inf Brigade near Phu Tho. This depot, along with the several other depots in this region, may also be related to the Yen Bay Ordnance Depot and be part of a major ammunition supply complex for the DRV.	24 25 26 27 28 29
8. TARGET ENVIRONMENT: The ammunition depot is located in valley running SW from Tuyen Quang to the Chay River. The depot is built in and around low hills to help in blast confinement. There are no urban areas near the depot. The hills are heavily wooded and the fields are fairly heavily cultivate in the valley. The 246 Inf Regt is located at Tuyen Quang just 7.5 NM NE of the ammunition depot. Elements of the 305 Inf Bge are SE of the depot of Phu Tho and Phu Loc.	32 33
9. <u>DEFENSE ENVIRONMENT</u> : There are no known AAA sites in the targe area; however, prepared AW positions are located in the vicinity of the guard posts (gate houses) and barracks. Antiair defense could be supplemented by elements of units in the region, especially the 246th Inf Regt which reportedly may have an AA defense role. Nearest radar is the early warning site (SCR-270) at Thai Nguyen.	40 41 42 43 44
10. DAMAGE OBJECTIVE: Destruction of stored ammunition. Damage criterion is structural damage to storage buildings wi accompanying damage to stored ammunition. Damage level is 30	45 th 46 %. 47

TOP LCRET

AT-2 Tab AT to Annex C to Appendix A

75 to the 7th Note to Holders)

* An additional revetted storage building is located south of areas A and B.



	(4) Weapons/sorties operationally required to achieve overtarget" requirment shown above:				
	1045/87 2560/214 2560/246 2560/427	3			
15.	PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.	Ł			

TOP CRET

A-C-AT-4

Tab AT to Annex C to Appendix A





	1
1. TARGET NUMBER: 47.14	
2. BE NUMBER: 616-0353	2
Z. BE NOWBER. O.O COST	3
3. IDENTIFICATION: Vinh Yen Ammunition Depot	, ,
	4
4. DATE OF INFORMATION: 1 Oct 1968	5
DATE OF TISD: 5 Nov 68	6
DATE OF PHOTOGRAPHY: 17 Jul 67 DATE OF INTELLIGENCE REVIEW: 16 Oct 68	7
	•
5. LOCATION: 21-18-21N 105-37-57E, located 2 NM E of Vinh Yen,	8 9
on the E side of the Ha Noi-Lao Cai Railroad.	7
	10
6. DESCRIPTION: This depot covers approximately 20 acres and con-	11
	12
	13
building. Areas C and F contain 5 support buildings. Storage capacity is esti-	14
mated at 3500 M.T.	
	15
7. SIGNIFICANCE: This target is the major ammunition supply installa-	16
7. SIGNIFICANCE: In starget is the major ammunition for the 312th tion in the Vinh Yen area. It is believed to provide ammunition for the 312th Inf Div which is located at several encampments N, E, and W of Vinh Yen, in Inf Div which is located at several encampments N, E, and W of Vinh Yen, in Inf Div which is located at several encampments N, E, and W of Vinh Yen area also houses the	17
Inf Div which is located at several encampments (2) and the about 10 identified military areas. The general Vinh Yen area also houses the about 10 identified military areas.	18
about 10 identified military areas. The general value of the NVA, an estimated regiment, whose ammunition only armored element of the NVA, an estimated regiment, whose ammunition	19
only armored element of the NVA, an estimated against a	20
logically would be processed through this installation.	
8. TARGET ENVIRONMENT: The land is rolling and irregular, marked	21
	22
	23
on the W side of the target, and two small and control and Lai Chou are the Khai Quang. The rail and road beds connecting Ha Noi and Lai Chou are the	24 25
principal visible routes.	45
principal visible foutes.	26
9. DEFENSE ENVIRONMENT:	20
	27
a. The target is within the SAM envelope.	
the second mishin 3 NM of the target.	28
b. AAA activity has been identified within 3 NM of the target.	
the amendian is anticipated.	29
c. HMG and small arms fire is anticipated.	
10. DAMAGE OBJECTIVE: Destruction of stored materials. Damage	30
10. DAMAGE OBJECTIVE: Destruction of storage and accompanying destruc-	31
criterion is structural damage to storage business. tion to stored ammunition. Damage level is 30%.	32
	33
11. EFFECT ON NVN: Loss of this installation would seriously affect	34
both the training and operational capabilities of the 312th Infantry Division and	35
the 202nd Armored Division.	,,
the goding attitudes a second	





13. <u>C</u>	OLLATE	RAL DAN	AGE:							7 8
. а	. Insigni	licant			•					9
t	.	Populat	tion		C	Casu	alties*			·
	Target	Area	Adjacent	Area	Target	Are	a Adj	acen	t Area	10
	Mil	Civ	Mil	Civ	Mil	Civ	Mil		Civ	1-1
	150	0	100	275	9	C) :	l	3	12
	*Casu	alties es	timated i	ınder day	light a	lert	conditi	ons.		13
14.	RECOMM							•		14
, 4.										
							.	T	- of	15
•	This is a	large tai	rget com	olex com	prised	of 6	steas.	Two	of tion.	15 16
he areas (This is a with 5 sub	1	Lana bee		teu iur	WCGI	<i></i>	P		
	with 5 sub	-areas)	have been	ed for e	ach are	a.	To sho	w the	1	16
Veapons a	with 5 sub nd sorties	have bed hieve the	have beei en compu : daniage	ted for e level pro	ach are escribe	a.	To sho	w the	1	16 17
Veapons a :{fort requ :orties rec	with 5 sub nd sorties lired to ac quired ove (1) In or	have been hieve the tar	have been en compu e daniage get are a	ted for e level pro lso show	ach are escribe	d, to	To shootal wes	w the))	16 17 18 19
Veapons a fort requiorties rec	with 5 sub nd sorties tired to ac quired ove	have been hieve the tar der to act:	have been en compu e daniage get are a	ted for e level pro lso show	ach are escribe	30%,	To shootal wes	w the))	16 17 18 19 20 21
Veapons a fort requires rec	with 5 sub nd sorties lired to ac quired ove (1) In or	have been hieve the tar der to act:	have been en compu e daniage get are a	ted for e level pro lso show	ach are escribe n: evel of	30%,	To shootal wes	w the	ortics	16 17 18 19 20 21
Veapons as affort required of weapons	with 5 sub nd sorties dired to ac quired ove (1) In or over targe	have been hieve the tar der to act:	have been computed damage get are a chieve a constitution of the c	ted for e level pro lso show lamage lo	ach are escribe n: evel of	30%,	To shootal wes	w the	orties 750#	16 17 18 19 20 21 22 23
Veapons as affort required of weapons WEAPON Area A-1	with 5 subnd sorties dired to acquired over (1) In ortioner target	have been hieve the tar the tar der to act:	have been computed damage get are a computed thicker and computed thicke	ted for e level pro lso show lamage lo	ach are escribe n: evel of	30%,	weapo	w the apons ns/s	ortics 750# BOMB	16 17 18 19 20 21 22 23
Veapons as affort required of WEAPON Area A-1 Area A-2	with 5 sub nd sorties dired to acc quired ove (1) In or over targe (80x265) (65x285)	have been hieve the tar der to act: 250# SNAF	have been computed damage get are a computed with the computed from the computed fro	ted for e level pro lso show lamage lo 500# r SNAK	exel for ach are excribe in:	30%,	weapo	w the pons	750# BOMB 90/15	16 17 18 19 20 21 22 23 24
Veapons as affort required of WEAPON Area A-1 Area A-2 Area A-3	with 5 sub nd sorties tired to acc quired ove (1) In or over targe (80x265) (65x285)	have been hieve the tar der to act: 250# SNAF	have been computed damage get are a chieve a compute thicker a com	ted for e level prolate show lamage le 500# r SNAK 27/3	excribent: evel of EYE 3	30%,	weapo 500# 90/10	w the apons	750# BOMB 90/15	16 17 18 19 20 21 22 23 24
Veapons as affort required of weapons WEAPON Area A-1 Area A-2	with 5 sub nd sorties tired to acc quired ove (1) In or over targe (80x265) (65x285)	p-areas) have been hieve the tar der to act: 250# SNAF 27/2 26/2	have been computed damage get are a computed with the computed service and computed service a	ted for e level prolamage less show lamage less SNAK 27/1 26/1	excribent: EYE of	30%,	weapo 500# BOM B 90/10 92/10	w the apons	750# BOMB 90/15 92/15	16 17 18 19



47.14

(3)) In order to ac	hieve a damage	leve	1 of 70%, w	eapons/sorties	1 2
required over	r target:				•	_
WEAPON	250# Snakeye	500# of Snakeye	or	500# BOMB of	750# BOMB	3 4
Area A-1	90/8	90/10		304/34	304/51	5
Arca A-2	86/7	86/10		309/34	309/52	6
Area A-3	88/7	88/10		318/35	318/53	7
Area A-4	104/9	104/12		376/42	376/63	8
Area B	43/4	43/5		137/15	137/23	9
TOTAL	411/35	411/47		1444/160	1444/242	10
	(4) Weapons/so uirements shows	rties operations	illy r	equired to	chieve "over	11
'arget" req	Mirements such				1711/289	13

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.

494/41

1733/193

Λ-C-Λu-4



14

TOP STERET

A-C-AW-1

Tab AW to Annex C to Appendix A



1. TARGET NUMBER: 47.16	1
2. BE NUMBER: 615-0279	2
3. IDENTIFICATION: Hon Gai Explosives Storage	3
4. DATE OF INFORMATION: 14 July 1966	4 5
DATE OF PHOTOGRAPHY: 18 November 1965 DATE OF INTELLIGENCE REVIEW: 21 January 1966	6 7
5. LOCATION: 26-59-69N 107-06-39E, UTM YJ 193219, 1.6 NM north of Khu Ka Lam, appr ximately 5 NM north of Hon Gal.	8 9
4 DESCRIPTION: Hon Gal Explicatives Stritage as Gasperson account	10 11
the second wants my guyen identified areas. Indie ale a charter	12
revetted storage buildings having an estimated storage capacity of 3, 150	13
metric tens; 6 support buildings; and to the south of the storage areas, 2 barracks buildings which can house up to 100 troops.	14
TO SUCCESSION OF This storage area probably supports elements of the	15
320th Division held by Order of Battle in the general Hai Phong military complex.	16 17
This storage facility is located north of	18
Hon Gai in an area where the tidal flats and tributaries of the Song Tien Vong merge with the law wooded hills of the shore line.	19 20
9. DEFENSE ENVIRONMENT:	21
a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of the target and 9 additional sites are 18-30 NM distant.	22 23
b. No AAA defense activity has been identified in the immediate	24 25
The general Hon Gal area delenses and delenses	26
active sites (14 occupied 37mm and 30 occupied 57mm/85mm AAA positions) and 3 inactive sites. (DOI: 22 August - 23 December 1965)	2
c. Light small arms/machine gun fire from the barracks and support area would be probable.	21
Daniel Or FETTIF. Destruction of stored ammunition. Damage	3
the state of the s	3
damage to stored ammunition. Damage level is 50 per contra	3
11. EFFECT ON NVN: Destruction of this stored ammunition and storage facilities would reduce supplies to military elements in the Hai Phong military complex and possibly eliminate secure storage of new stocks coming in from China or from depcts to the northwest.	y 3 3 3



TOP MCRET

12. RECUPERABI 2 to 3 days using canvaccomplished by the typepared.	ne se tempo	PATV STORE	ige. Ko	sbracem	CITE OF	Stocks co.	thin 1 ald be 2 3 4	
13. COLLATERAL	L DAMAGE:						. 5	
a. None							6	
b. F	Population	•		Cast	alties	*	7	
	ea Adjaner	t Area	Targe	t Area	Adja	ent Area	8	
Mil Ci		Civ	Mil	Civ	Mil	Civ	9	
50	0 50	0	3	0	. 1	0	10	
*Casualti	es estimated	i under da	ylight a	lert cor	dition	s.	- 11	
14. RECOMMEN							12	;
sorties have bee to achieve the de over the target a	mage level are also show der to achie	for each a prescribe wn:	d, total	weapon	s/sor	ties requis	red 15	1 5 6
WEAPON	250# SNAKEYE	250# or BULL	PUP o	250f BON	AB or	500# BOMB or	750# BOMB	
Area A (100x50C)	14/1	13/7	•	42	/4	42/5	42/7 1	.9
Area B (200x250)	19/2	13/6	•	41	/3	21/2	13/2 2	20
Area C (100x800)	20/2	19/1	10	58	/5	58/6	58/10 2	21
Area D (50x150)	29/2	18/	9	111	/9	111/12	111/19	22
Area E (100×350)	12/1	10/	5	35	/3	35/4	35/6	23
Area F (150x400)	19/2	16/	8	47	/4	24/3	14/2	24
Area G (100x250)	10/1	7/	3	31	1/3	31/4	31/5	25
Totals	123/11	96/	48 .	36	5/31	322/36	304/51	26
(2) We	apons/sorti quirement s	es operati hown abov	onally :	required	i to ac	hieve "ove	e r	27 28
****	150/13	117		44	5/38	393/44	371/62	29





(3) In order to achieve a damage level of 70%, weapons/sortics required over target: 500# 750# 250# 250# 250# BOMB or BOMB or BOMB SNAKEYE or BULLPUP **WEAPON** 142/16 142/24 142/12 44/22 48/4 Area A 71/8 44/7 138/12 44/22 64/5 Area B 196/22 196/34 196/16 64/32 68/6 Arca C 374/41 374/62 374/31 61/31 98/8 Area D 118/10 118/13 118/20 34/17 41/4 Area E 8 158/13 81/9 48/8 54/27 64/5 Area F 105/12 105/17 105/9 24/12 34/3 Area G 1231/103 1087/121 1027/172 10 325/163 417/35 Totals (4) Weapons/sorties operationally required to achieve "over 11 12 target" requirements shown above: 1501/126 1326/148 1252/209 13 396/198 509/43

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%

TOP _CRET

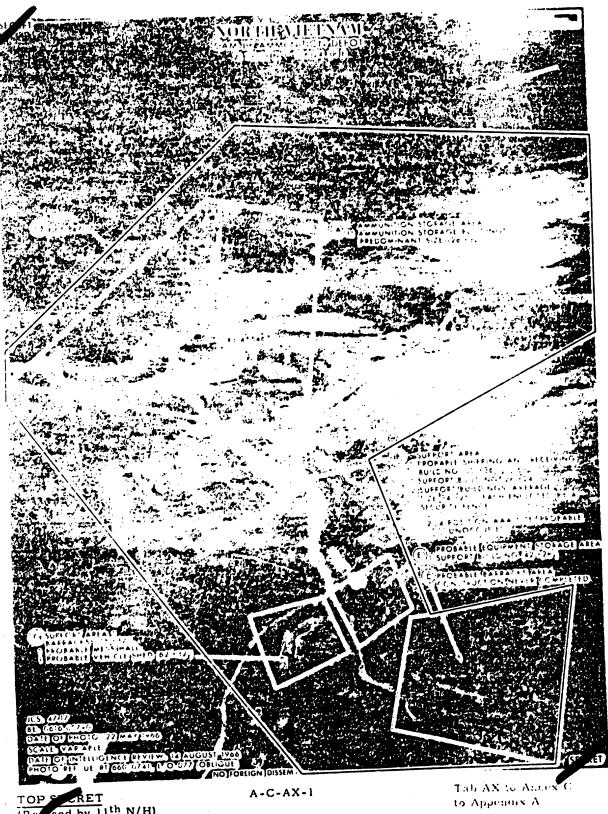
(Revised by 9th Note to Holders

Tab AW to Annex C to Appendix A



TAB AX TO ANNEX C TO APPENDIX A

TARGET NO. 47.17



sed by 11th N/H)



1. TARGET NUMBER: 47.17	1
2. BE NUMBER: 616-0790	2
3. IDENTIFICATION: Cam Ly Ammunition Depot	3
A DATE OF INFORMATION: 13 September 1966	4 5
DATE OF TIS: 5 October 1966	6
DATE OF PHOTOCRAPHY: 22 May 1900 DATE OF INTELLIGENCE REVIEW: 14 August 1966	7
5. LOCATION: 21-13-00N 106-24-03E UTM XJ 455467, 2 NM west of Cam Ly.	8
6. DESCRIPTION: This ammunition depot is fence-secured and contains 11	9
6. DESCRIPTION: This ammunition depot in tenderal storage capacity of these build-dispersed storage buildings. The estimated storage area and inside the security	10 11
dispersed storage buildings. The estimated storage area and inside the security ings is 7430 metric tons. Adjoining the storage area and inside the security	12
ings is 7430 metric tons. Adjoining the storage dividually fenced. The fence are 5 small buildings, two of which are individually fenced. The	13
fence are 5 small buildings, two of which are have and of the depot and barracks and support facilities are at the northwest end of the depot and barracks capable of housing 130	14
contain a vehicle shed, mess hall, and a battach dependent to be additional troops. To the northwest of this support area there appears to be additional barracks under construction.	15
7. SIGNIFICANCE: This depot probably provides secure storage of ammunition	16
7. SIGNIFICANCE: This depot probably provides solding in from China and in turn supports the Ha Noi/Hai Phong complex and ammunition depots to the south.	17 18
animonite sin containing of a	19
8. TARGET ENVIRONMENT: This depot is located in the foothills of a	20
8. TARGET ENVIRONMENT: This depot is located in the installation mountain range south of the Song Thuong. To the north of the installation are cultivated river lowlands and scattered villages.	21
9. DEFENSE ENVIRONMENT:	22
a. Eighteen SAM sites have been identified within SA-2 missile range	23 24
(17.5 NM) of the target, and 25 additional 550 been 18-30 NM distant.	25
b. There is no identified AAA activity in the immediate target vicinity	. 26
b. There is no identified AAA activity in the instance sites) approxi- The nearest AAA activity is at Mai Thinh (9 unoccupied sites) approxi-	27
The nearest AAA activity is at her annual to the mately 5 NM northwest.	28
c. Sparse HMG and small arms fire is anticipated.	29
10. DAMAGE OBJECTIVE: Destruction of stored ammunition. Damage criterion	30 31
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored animality of the stored is structural damage to stored buildings with accompanying damage to stored ammunition. Damage level is 30%.	32
dillimitation. Former for 11170	33
11. EFFECT ON NVN: Destruction of this amountain and storage facility	34
would delar re-supplying ammunition stocks coming in	35
would delar re-supplying ammunition stocks to damage for new stocks coming in further south and would also deny secure storage for new stocks coming in from China. Supply for troops in the Ha Noi/Hai Phong complex would also be	36
from China. Supply for troops in the he had been supply for troops in the head of the head	37
curtailed.	
12. <u>RECUPERABILITY</u> : It would take from 2 to 3 days to remove debris and prepare temporary storage under canvas. Replacement of destroyed stores from Chinese sources would require from 4 to 5 days.	36 om 3 4



A-C-AX-2

Tab AX to Annex C to Appendix A



13. COLLATERA	L DAMAG	E:						1
a. None	•							2
b. .	Popula	tion			Casua	lties*		3
Target	Area	Adjacent Ar	ea ·	Target	Ares	Adjacent	. Area	4
M11	Civ	Mil Ci	v	Mi 1	Civ	Mil	Civ	5
90	0	40 (· ·	5	0	0	0	6
*Casu	alties (estimated und	der da	ylight aler	t cond	iitions.	•	7
14. RECOMMEN							*	8
delineated puted for e level presc shown:	for wear ach are ribed,	ation is com pons applica a. To show total weapon	tion. the ef	Weapons an fort require	ed to	achieve t r the targ	he damage et are also	9 10 11 12 13
(1) I required	n order l over t	to achieve arget:	a dami	age level of	30%,	weapons/s	orties	14 15
EAPON		250# BOMB	or	500 ₽ BOMB	or	750# BOMB	or BOMB	ė.
res A (1250x2	2350)	304/25		304/34		304/51	304/101	16
rem B (450x5)		80/7		41/5		24/4	21/7	17
otals		384/32		345/39		328/55	325/108	- 18
(2) require	Weapons, ments s	/sorties ope hown above:	ration	ally requir	ed to	achieve "	over target"	19 20
		468/39		421/47		400/67	396/132	21
(3) require	In orde d over	r to achieve target:	a dar	nage level o	£ 70%	, weapons/	sorties	22 23
		250#		500#		750#	1000# or BOMB	
WEAPON		ВОМВ	or	BOMB	or	вомв		3.
Area A		1025/85		1025/114		1025/171	1025/342	24
Area B		237/20		139/15		81/14	71/24	25
Totals	•	1262/105		1164/129		1106/185		26
(4) requir	Weapon: ements	s/sorties ope shown above:	eratio	mally requi	red to	o achieve	"over target"	27 28
•		1539/129		1420/158		1349/225	1337/446	29
15. PROBAB	ILITY O	F ACHIEVING	<u>des iri</u>	D DAMAGE LE	vel:	50%		30



A-C-AX-3

Tab AX to Annex C to Appendix A



TAB AY TO ARREX C TO APPENDIX A TARGET NO.



Tab AY to arread to to Appendix A

TOF CRET

A-C-AY-1



1. TARGET NUMBER: 47.18	1
2. BE NUMBER: 617-0626	2
3. IDENTIFICATION: Xom Rung Ammunition Depot	3
U DATE OF INFORMATION: 20 Feb 1965.	4.
DATE OF TIS: 27 Mar 1905	5
5. LOCATION: 17-44-50N/105-56-10E, UTM WE 993622, approx1-mately 1 NM NW of Xom Rung.	67
6. DESCRIPTION: This depot contains 2 argas with a total of 8 dispersed storage buildings with an estimated storage capactity of 4,120 Metric tens. To the south and adjoining the immunition storage area is a barracks and support area capable of benefit 100 troops.	8 9 10 11 12
7. SIGNIFICANCE: This depot has access to the coastal area by way of Route 101 and probably contributes to the support of the Dong Hoi Military Complex, location of major elements of the 325 Infantry Division. Further, this depot is the only known ammunition depot of any size relatively close to Route 12 and Mu Gia Supply and Staging Point.	13 14 15 16 17 18
8. TARGET ENVIRONMENT: The ammunition storage buildings are dispersed in a wooded hilly area to the northwest of a cultivated valley and Xom Rung village.	19 20 21
9. <u>DEFENSE ENVIRONMENT</u> :	22
a. No known AAA are located in the target area. Nearest AAA defenses are located at Don Bai Dinh, approximately 9 NM west, and at Mu Gia Pass approximately 102 NM southwes	23 24 t.25
b. Prepared AW (up to 12.7mm) positions are probably located within the installation.	26 27
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored ammunition. Damage criterion is one hit per storage structure with accompanying damage to stored ammunition. Damage level is percent.	28 29 30 31
11. EFFECT ON DRV: Damage to this ammunition depot will reduce support to military elements in the Dong Hoi Military Complex and possibly curtail assistance to Pathet Lao efforts.	32 33 • 34
12. RECUPERABILITY: It would require at least 24 hours to clean up damage and store ammunition under canvas. Replacement of lost ammunition could be accomplished within 24 hours acquired from the closest ammunition depots to the north.	35 36



A-C-AY-2

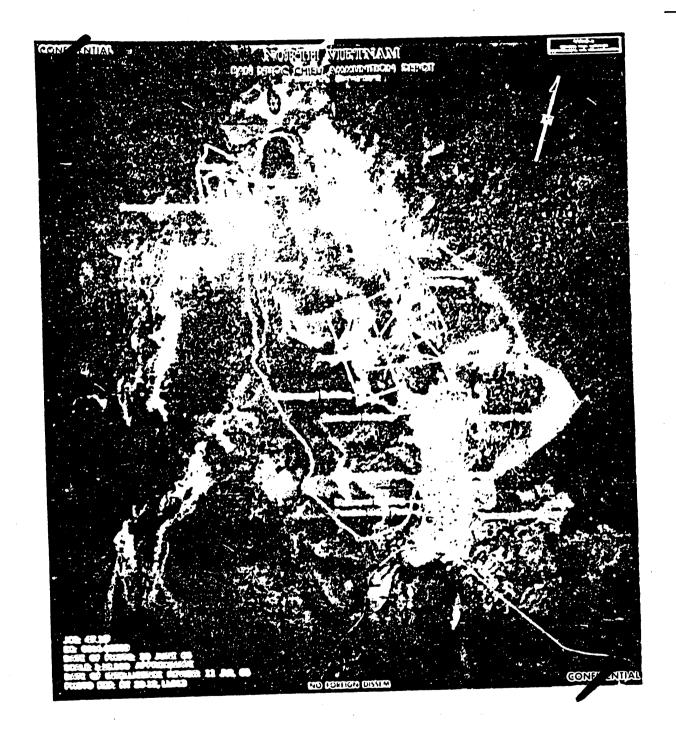
Tab AY to Annex C to Appendix A

TY D	2000	
11.15	CREI	•
		•

13. <u>COL</u>	LATERAL DAMAG	E: Insigni	lficant.	1	1
14. REC	OMMENDED WEAP	ONS AND SOF	RTIES:		2
Weapon show t	s and sorties he effort req d, total weap	have been uired to a	computed in the	mprised of two areas. for each area. To damage level pre- over the target is	34567
wea	(1) In order pons/sorties	to achieve required o	a damage : ver target	level of 30%	8 9
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	27/2	54/4	54/6	54/9	10
Area B	102/9	140/12	140/16	140/23	11
TOTALS:	129/11	194/16	194/22	194/32	12
"o1	(2) Weapons/s ver target" re	orties ope quirement	rationally shown abov	required to achieve e:	13 14
	157/13	237/20	237/27	237/39	15
Met	(3) In order apons/sorties	to achieve required o	a damage ver target	level of 70%	16 17
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	91/8	182/15	182/20	182/30	18
Area B	345/29	473/40	473/53	473/79	19
TOTALS:	436/37	655/55	655/73	655/109	, 20
" o	(4) Weapons/ever target" re	sorties ope equirement	rationally shown above	required to achieve	21 22
•	530/45	800/67	800/89	237/134	23
15. PROB	ABILITY OF AC	RIEVING DE	SIRED DAMAG	DE LEVEL: 50%.	24



The state of the s



 $\frac{\operatorname{pop}_{\mathbb{R}}(A, \mathbb{R}^{2})}{\operatorname{d}_{\mathbb{R}^{2}}(A, \mathbb{R}^{2})} = \frac{\operatorname{qco}_{\mathbb{R}^{2}}(A, \mathbb{R}^{2})}{\operatorname{qco}_{\mathbb{R}^{2}}(A, \mathbb{R}^{2})} = \frac{\operatorname{qco}_{$

528

1. TARGET NUMBER:

2. BE NUMBER:

TARGET INFORMATION AND STRIKE DATA

47 19

616-0559

1

2

3	١.	IDENTIF	ICATI	<u>on</u> : 1	Ban 1	luoc	Chie	u An	mun1t	tion	Depot	t		3
-		DATE OF	-				Febru				TE OF	TIS:	1	4
											_	1 1965		5
NM 1	BOU	LOCATION IN THE PROPERTY IN TH	an Nu	oc Ch	ieu.									6 7
	5.	DESCRI	TION	Th1	s de	pot	15 8	lar	ge ir	regui	larly spers	-shaped	1	8 9
fen	ced	area	contai	ning	TWO	s ha	ving	an	estim	ated	stor			1Ó 11
cap	ac:	ty of	11,900	meti	10 0	ons.	me N	W en	d of	the	secur	ed are	8.	12
														13 14
bui	10:	ing, l	venic.	re auc	:a, ,	4		50 G	ema 11	BUD	port	build1	ngs	15 16
are	n	earby b	ut ou	68146	tne	Lar	gev a	FAC	this	Are	. 7	The lar	ger	17
clu	st	er of a	wwn ur	cion	BCOL	rRe i	1	20	-4		get I	i throu creas	gh	18 19
the	C	enter o	r the	insta	HIIA.	1011	- C- 7	1111	ings	and	1 un	identif	1ed	20 21
str	uc	ture in	Area	B. /	A no	3-6X	e thi	, VG .	rea.	Ares	a C co	ontains		22
5 a		villag unition and ou	stor	age b	nijq	ings	and	Area	D Co	onta: tora:	ins 3 ze bu	. To t ilding	he	23 24
and	ith 12	and ou	itside	n-exp	1081	ve s	torag	ge bu	11111	ngs.	Are	a E 18	ks	25 26
at	tr	e south	ern e	na oi	The	180	1110	teli	2	adm1	nistr	ation	,	27 28
- bu:	110	lings,	, pari	ACKD/	8001	20°	-35-		144-5	1	Pour	quarte:	rs-	29
vel	nic	le sue	15, ar	IC DEA	6101		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+.	140 0	f th	e tar	get ar	ea.	30 31
Th	e 56	buildi: barrac troops.	cks fa	cilit	;1es	coni	ld ac	COURT	oua ce	app				32
			DT CAN	7 2. 9	Mn1 s	depo	ot 18	the	prim	ary	ammur	ition		33 34
st	7 or	SIGNI	111ty	for !	11111	ary	Regi	on N	orthw	rest	and p	robabl s south	У	35
al	80	contr1	tutes	to ti	ue si	thho:				•-				36
	8	. TARGE	T ENV	IRONM	ENT:	Th a th	e dep e Red	ot 1	Blac	k Ri	Lvers	; howev	er,	37
++		a ara c	ultiv	ated a	anu	9 5 v v	led v	ralle	ув от	n the	nor	thwest		38 39
ar	nd	southes	st bo	undar	1es.								. n	40
	9	. DEFEN	SE EN	VIRON	MENT	: N area	o kand	veve:	RAA Q r, AW	pos	ition	s and		41
tı	1er Cer	tified ching a y warn	re ev	ident	T	he n	eare	st r	adars	are	a KN der a	t Xom	r-B Lom,	42 43 44
		y warn: a RUS-							c 10					44
								4	of st	ored	ammu	nition	•	45 46
D	ama 1 ti	ge cri	terio: panyi:	ng dan	age	to	store	d am	mun1t	ion.				47
	•	11. EFF	ECT O	DRV	De	str	uct10	n of	this	sto	red a	mmunit	ion	48 49
. 8	nd	storag	e wou.	ra era	rmanie	ICB I	Decar		4 -01	4 011	IV ef	fect s	uppo	rt50
0	om	ing in troops port to	in th	e Nor	thwe	t M	111ta	ry F	legior suffe	i. I	in add	eduction,	n.	51 52
8	up	port to	YL 6	ITOPU	D WO		h. 000		2 - 2 - 2 - 3					
1	OP	ECRET				A-C	-AZ-2	2			Tab	AZ to		
		7									Anne	ex C to	\ \	

12. RECUPERABILITY: Four to five days would be required to clear the depot of debris and establish storage under canvas. Replacement of destroyed stores from China would require at least 4 to 5 days. If obtained from other depots to the east, 2 to 4 days would be necessary.										
13. COLLATERAL DAMAGE: Insignificant.										
14. RECOMMENDED WEAPONS AND SORTIES:										
a. This is a large target complex comprised of five areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.										
(1) weapon	In order to s/sorties req	achieve a di uired over	mage level target:		13 14					
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB						
Area A	35/3	55/5	55/6	55/9	15					
Area B	48/4	62/5	62/7	62/10	16					
Area C	75/6	97/8	97/11	97/16	17					
Area D	30/3	47/4	47/5	47/8	18					
Area E	56/5	96/8	50/6	29/5	19					
Totals	244/20	357/30	311/35	290/48	20					
(2 "over) Weapons/sor target" requ	ties operat irement sho	ionally requ wn above:	uired to achie						
	298/25	436/37	380/43	354/59	23 24					
() weap	3) In order to	achieve a equired over	damage leve target:	1 of 70%	25					
Weapon	250# SNAKEYE or	250#	500# BOMB or	750# BOMB	,					
Area A	118/10	185/15	185/21	185/31	26					
Area B	160/13	208/17	208/23	208/35	27					
Area C	250/21	326/27	326/36	326/54	28					
Area D	100/8	158/13	158/17	158/26	29					
Area E	188/16	320/27	170/19	98/16	30					
Totals	816/68	1197/99	1047/116	975/162	31					
	(4) Weapons/seer target" re	orties opera	tionally renown above:	equired to ach						
	995/83	1460/121	1277/142		34					
15. PRO	BABILITY OF A	CHIEVING DE	SIRED DAMAG	LEVEL: 50%.	35					
	•									

TOP ECRET

A-C-AZ-3

Tab AZ to Annex C to Appendix A

Tab BA to Arnex C to Appendix A

1. TARGET NUMBER: 47.2	1
2. <u>BE NUMBER</u> : 616-0366	2
3. IDENTIFICATION: Lang Chi Explosives Plant	3
4. DATE OF INFORMATION: 30 December 1964 DATE OF TIS: 19 May 1965	4 5
5. <u>LOCATION</u> : 21-41-38N/105-15-00E, UTM WJ 260998	6
6. DESCRIPTION: This installation comprises 5 areas as follows:	8
a. The main plant consisting of one large administration building, 6 large processing buildings, one power plant, one power house, and 14 support buildings.	9 10 11
b. A storage area containing 11 revetted buildings.	12
c. A storage area containing 9 revetted or partly revetted buildings.	13 14
d. A test range area which includes 2 test ranges and buildings.	15 16
7. SIGNIFICANCE: This is the only known explosives plant in North Vietnam. It has an estimated yearly capacity of 1,000 metric tons; however, yearly output is unknown.	17 18 19
8. TARGET ENVIRONMENT: Target is completely isolated in open terrain. Except for probable workers housing adjacent to the plant, the area is relatively unpopulated (nearest village is 4 km to the SE).	23 23 20
9. DEFENSE ENVIRONMENT: There are no known AAA sites in the target area; however, AW defense would be anticipated. Anti-air defense could be provided by elements of military units in the region, especially the 246th Infantry Regiment which reportedly may have an AA defense role. Nearest radar is the EW site at Thai Nguyen.	24 25 26 27 28 29
10. <u>DAMAGE OBJECTIVE</u> : Destruction of the facility. Damage criterion is structural damage to the processing, administration and storage buildings, and power plants, plus accompanying personnel casualties. Damage level is 30 percent.	30 31 32 33
11. EFFECT ON NVN: Negligible. North Vietnam relies on imports from the Sino-Soviet Bloc for explosive munitions.	34 35
12. RECUPERABILITY: Pre-attack capability can be restored in about 45 days.	36 37
13. COLLATERAL DAMAGE: Insignificant.	38
14. RECOMMENDED WEAPONS AND SORTIES:	39
a. This is a large target complex comprised of five areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.	40

TOP SECRET

(1) In weapons/	n order to a sorties requ	ichieve a d	amage level of 30%, target:	1 2	
Weapon:	500# BOMB or	750# BOMB or	1000# BOMB		
Area A	51/5	51/8	51/17	3	
Area B	70/8	70/12	70/23	4	
Area C	99/11	68/11	61/20	5	
Area D	13/1	13/2	13/4	. 6	
Area E	69/8	69/12	69/23	7	
Area P	106/12	106/18	106/35	8	
Totals:	408/45	377/63	370/123	9	
(2) Weapons/sorties operationally required to achieve 10 "over target" requirement shown above:					
	500/55	460/77	452/150	12	
(3) : weapons	In order to sorties rec	achieve a quired over	damage level of 70%, target:	13 14	
Weapon:	500# BOMB or	750# BOMB or	1000# BOMB		
Area A	172/19	172/29	172/57	15	
Area B	236/26	236/39	236/78	16	
Area C	334/37	230/38	206/69	17	
Area D	44/5	44/7	44/15	18	
Area B	233/26	233/39	233/78	19	
Area P	357/40	357/60	357/119	20	
Totals:	•	1272/212		21	
(4) Weapons/sorties operationally required to achieve 22 "over target" requirement shown above: 23					
	1680/187	1560/269	1248/416	24	
15. PROBABILITY OF ACHIEVING DAMAGE CRITERION: 50% 25					

TOP CRET

Tab BA to Annex C to Appendix A 1 1047 RV-2



Ale Base of ALIBERT Specific Appendix A TARGET NO. 87.21



1. TARGET NUMBER: 47.21	1
2. BE NUMBER: 616-0725	2
3. IDENTIFICATION: Bac Giang Ammunition Depot	3
4. DATE OF INFORMATION: 1 Oct 68 DATE OF TISD: 5 Nov 68	4 5
DATE OF PHOTOGRAPHY: 4 Sep 66	6 7
DATE OF INTELLIGENCE REVIEW: 16 Oct 68	•
5. LOCATION: 21-18-30N 106-08-50E, located approximately. 2.7 NM NW of Bac Giang.	8 9
6. DESCRIPTION: This storage facility contains 8 revetted storage build-	10 11
in an I have the 2 small support buildings, and I messhall. In addition, there	12
is one small revetted building in a high explosives storage area on the hillside and slightly removed from the storage buildings. Access to Bac Giang, Route 1A	13
LAND IT AND COME COME DAILED AND AND AND AND WARE THE PARTY OF THE PAR	14
mated storage capacity is approximately 3300 M.T. and the barracks space could	15
accommodate up to 120 personnel.	16
7. SIGNIFICANCE: This depot probably supports the numerous military	17
installations known to be in the Bac Giang area and possibly allords storage	18
space for munitions shipped by rail from Communist China.	19
8. TARGET ENVIRONMENT: This installation is located at the base of	20
a range of low scrub-covered hills and is abutted on the W by rice fields.	21
There is a broad canal about 200 yards to the N.	22
9. DEFENSE ENVIRONMENT:	23
a. The target is within the SAM envelope.	24
b. AAA has been identified within 3 NM of the target.	25
c. HMG and small arms fire is anticipated.	26
10. DAMAGE OBJECTIVE: Destruction of stored ammunition. Damage	27
anitation to structural damage to storage buildings with accompanying camage	28
to stored ammunition and personnel. Damage level is 30%.	29
11. EFFECT ON NVN: Destruction of these facilities would have a	30
AL ALL AND MILITARY DORLUTE: NOWEVER, BUPPLY to hear by	31
military installations would be disrupted for a time. In addition, secure size	32
age would possibly be denied to incoming shipments.	

SECKET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

TAB BARe Annex Che Terendix A



12. RECUPERABILITY: Limited operations could be resumed within 36 hours if temporary shelter is used for salvaged materials. Reconstruction could be accomplished within a week to 10 days since this target is close to Bac Giang and access routes are good. Replacement of stores, if from Communist China, could possibly be achieved within two to three weeks.

13. COLLATERAL DAMAGE:

a.	Hone		

ь.		Pop	ulation		Casualties*					8
	Targe	t Arca	Adjaces	nt Area	Target	Area	Adjaces	nt Area		9
	Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ		10
	80	0	10	0	5	. · O	· . O	. 0	•	- 11
	*Casy	alties	estimate	d under d	laylight a	lert co	nditions			12
	-									13

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of three areas. Four sub-areas (within 2 target areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the desired damage level, total weapons/sorties required over the target are also shown:

(1) In order to achieve the damage level of 30%, weapons/sorties
required over target:

WEAPON SNAKEYE or SNAKEYE or BOMB or BOMB Area A-1 (475x85) 11/1 11/1 34/4 34/6 Area A-2 (415x60) 9/1 9/1 31/3 31/5 Area A-3 (325x90) 20/2 20/2 63/7 63/11 Area A-4 (505x170) 17/1 17/2 37/4 37/6 TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	required over sea Boss		#	500#	750#	21
Area A-2 (415x60) 9/1 9/1 31/3 31/5 Area A-3 (325x90) 20/2 20/2 63/7 63/11 Area A-4 (505x170) 17/1 17/2 37/4 37/6 TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	WEAPON	250# SNAKEYE	500# or SNAKEYE			22
Area A-2 (415x60) 9/1 9/1 51/3 51/3 Area A-3 (325x90) 20/2 20/2 63/7 63/11 Area A-4 (505x170) 17/1 17/2 37/4 37/6 TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	Arez A-1 (475x85)	11/1	11/1	34/4	34/6	23
Area A-3 (325x90) 20/2 20/2 63/7 63/11 Area A-4 (505x170) 17/1 17/2 37/4 37/6 TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	Area A-2 (415×60)	9/1	9/1	31/3	31/5	24
Area A-4 (505x170) 17/1 17/2 37/4 37/6 TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	•	20/2	20/2	63/7	63/11	25
TOTAL 57/5 57/6 165/18 165/28 (2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	•	17/1	17/2	37/4	37/6	26
(2) Weapons/sorties operationally required to achieve over target requirements shown above:		57/5	57/6	165/18	165/28	27
109/33	(2) Weap	ons/sorties above:	operationally r	equired to achieve	e "over target"	28 29
		69/6	69/8	198/33	198/33	30

(3) In order to achieve the damage level of 70% weapons/sorties
31
32
required over target:

SE RET

47.21

4

14

15

16



WEAPON .	250# Snakeye o	500# r SNAKEYE	500# or BOMB or	750# BOM B	1 2
Area A-1	36/3	36/4	114/13	114/19	3
Area A-2	30/3	30/3	104/12	104/17	4
Area A-3	67/6	67/7	213/24	213/36	5
Area A-4	56/5	56/6	125/14	125/21	6
TOTAL	189/7	189/20	556/63	556/93	,7
(4) \ requirements si	Weapons/sorites op hown above:	erationally requ	ired to achieve '	over target"	8 9
	227/19	227/25	668/74	668/111	10
IS. PRO	BABILITY OF ACH	EVING DESIRE	D DAMAGE LEV	EL: 50%	11

SEC LET

47.21

TAB BAS TO ANNEX C TO APPENDIX A

TARGET NO. 47.22



A-C-BAb-1

Tab BAb to Annex C to Appendix A

1. TARGET NUMBER: 47.22	-1
2. BE NUMC'ER: 616-0905	2
3. IDENTIFICATION: Bae Can Ammo Depot	3
4. DATE OF INFORMATION: 14 July 1966 DATE OF :15: 20 June 1966	4 5
5. LOCATION: 22-06-50N 105-53-10E, UTM WK 913454, 3.5 NM SE of Bac Can, just north of Route 3.	6 7
administration and support area is located on the east and southeast edge of the complex and contains approximately 4 bar-	11
7. SIGNIFICANCE: This ammo depot may serve as an initial transfer and storage area for explosives entering North Vietnam from China. No major military units are known to be located in the immediate vicinity.	21 22 23 24
8. TARGET ENVIRONMENT: The depot, located SE of Bac Can just off of Route 3, is built in and around low, rolling, heavily wooded hills. There are no urban areas near the depot; nor are there any major military units in the immediate vicinity.	25 26 27 28 29
9. DEPENSE ENVIRONMENT:	30
a. One SAM site has been identified within SA-2 range (17.5 NM) of this target, and 2 sites have been identified 18-30 NM distant.	31 32 33
b. No AAA activity has been identified in the area of this target.c. It is anticipated that local militia would attempt	34 35 36 37
defense of this area with machine gun/small arms fire.	38
10. DAMAGE OBJECTIVE: Damage criterion is structural damage to storage buildings with resulting damage to stored ammunition and personnel. Damage level is 30%.	•
11. EFFECT ON DRV: There would be no immediate effect on support to the Viet Cong or PL forces, however destruction of ammunition stocks would delay resupply of depots to the south and curtail supply of possible troop build-up in this area.	41 42 43 44
12. RECUPERABILITY: Limited operation could be resumed in 24 hours. Resupply of destroyed ammunition could be brought from China in 72 hours.	45 46 47
13. COLLATERAL DAMAGE: None.	48



A-C-BAb-2

Tab BAb to Annex C to Appendix A



14. RECOMMENDED WEAPONS AND SORTIES:

a. While not particularly large, this target is comprised of 4 areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target area are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

Weapon	250# Snakeye	or	250# BOMB or	500# BOMB or	750# BONB	
Area A	190/16		217/18	217/24	217/36	9
Area B	81/7		113/9	113/12	113/19	10
Area C	160/13		194/16	194/22	194/32	11
Area D	79/7		116/10	60/7	35/6	12
Totals	510/43		640/53	584/65	559/93	13
						- 1.

(2) Weapons/sortics operationally required to achieve 15 "over target" requirements shown above:

16 682/113 712/79 780/65 622/52

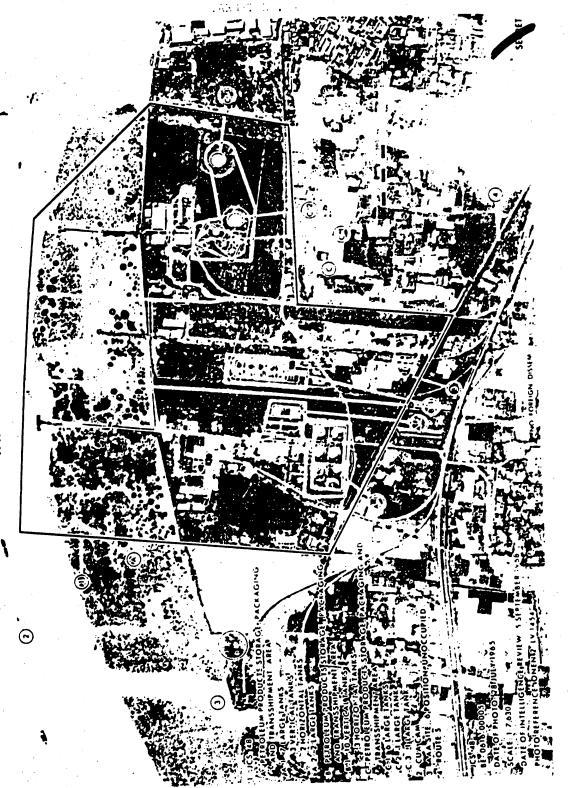
(3) In order to achieve a damage level of 70%, weapons/17 sorties required over target:

5-72 -22-5	204		•				•	
Weapon	250# SNAKEYE	or	250# BOMB	or	500// BOMB	or	750# BOMB	
Area A	642/53		735/61		735/82		735/122	19
Area B	274/23		382/32	٠.	382/42	!	382/64	20
Area C	540/45		655/54		655/73	,	655/109	21
Area D	268/22		392/33		203/22	2	118/20	22
Totals	1724/143	* •	2164/18	0	1975/27	19	1890/315	23
(4) Weapons/sorties operationally required to achieve "over target" requirements shown above:							24 25	
	-							

26 2305/384 2409/267 2639/220 2102/175

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL:

NORTH VIETNAM
HAIFHOLG FETPOLLUM PRODUCTS STOKAGE
255277N 7635441



A-C-BB-1



1. TARGET NUMBER: 48	1
	2
Detroloum Products Storage	3
	4 5 7
J. LOCATION: 20-52-17N 106-39-44E, located 2 NM WNW of Hai Phong	8
6. DESCRIPTION: This facility consists of 30 aboveground, cylindrical, steel storage tanks ranging from 13 to 115 feet in diameter, and b horizonal tanks about 10 to 12 feet in diameter. Extensive support facilities include about 15-17 warehouse-type buildings ranging from 110 x 70 feet to 860 x 150 feet. Numerous smaller support buildings and open storage areas are dispersed throughout the facility. Transportation services consists of 3 oil throughout the facility. Transportation services consists. The	9 10 11 12 13 14 15 16 17
man with a storage capacity of	18 19 20 21 22
8. TARGET ENVIRONMENT: The target is located on the S bank of the Cua Cam. With the exception of the built-up area of Hai Phong, the target is surrounded by extensive areas of wetland rice and small native villages. The target and surrounding area are only a few feet above sea level except for an isolated hill that rises to 480 feet about 4 NM to the N, and a group of hills that rise to 460 feet about 5 NM to the S and SW.	23 24 25 26 27 29 29
O. DEFENSE ENVIRONMENT:	30
a. The target is within the SAM envelope.	31
b. AAA activity has been identified within 3 NM of the target.	32
and ample arms fire is anticipated.	33
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterior is rupture of storage tanks and distortion of exposed piping and equipment. Firing of spilled contents will enhance disability.	. 36
11. EFFECT ON NVN: Loss of this facility would disrupt the normal POL import and distribution pattern. Loss of the POL would significantly reduce stocks or hand and available storage capacity.	37 38 39 40

BEFORE NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

TAB BRto Annex C to Appendix A



much long component build to exlating continue out be in	pability or. No o, appr the con relianc indefin stalled	y would rth Vic- opriate struction e on im itely.	require tham is a steel to on or ma ported ma Although repared	a perional p	od of sever to be of ping, pre of POL and ski bricated about a	manufacumps, constants is tanks week, ace al	to full, ponths or poturing ta or other ige facilit expected of Soviet it appears a necessar emergency	tems ies. The to design unlikely	10
13.	COLLATE	RAL DAM	AGE:						12
	a. Mg	ght dama	ge to su	rroundi	ng area.				13
	h.	Populat	ion.			Casu	alties*		14
	Target	Aren	Adjacent	, Area	Target	Area	Adjacent	Area	15
	MIL	Civ	Mil	Civ	Mil	Civ	M11	Civ	16
	25	100	80	680	2	6	1	7 ·	17
	(lasua	lties e	stimated	under	iaylight	alert	conditions		18
14.			EAPONS A						19
ond to c C cub-ar brescrib chown:	omprise eas. T ea, tot	d of 3 o show al weap	areas. the effo ons/sort	weapons rt requ ies req	ired to suired ove	chieve r the	ity in Norve been co the damag target are	ge level ea also	22 23 24
WEAPON	, over ,	250	••		OO# NAKEYE O	500 r B01		750# BOMB	27 28
Λ-1 (55!	5.vo/15.\	. 9/		8,	/1 .	15,	/2	14/2	50
Λ=1 (99) Λ=2 (21)		5/0		14,	/0	14,	/2	13/2	30
B-1 (42)		19.		1	5/2	38	/4	33/6	31
B=1 (47 C=1 (35		14		1	2/1	24	/3	21/4	32
C=1 (39			•	2	/o	5/	1	5/1	33
•		ter) 2/		1	/0	5/	'1	4/1	. 34
	y Diame		/4	. 4	2/4	10	1/13	90/16	35
Totai	(?) V	leanons/		operati	onally r	equired	to achie	ve "over	36 37
unrec	requi		2/5		51/6	12	22/14	108/18	38
require	(3) ed over		r to achi	leve a	lamage le	vel of	70%, weap	ons/sorti	es 39

TWA CHAT

#LA

(Revised by 15th Note to Holders)

TAB BB to Annex C to Appendix A

•

A-1	30/3	27/3	48/5	45/8	1,
Λ-2	16/1	14/2	47/5	43/7	. 2
13-1	63/5	50/6	127/14	111/19	3
C=1	46/4	39/4	78/9	70/12	4
('-;'	11/0	. 4/0	16/2	15/3	5
· - 3	11/0	4/0	14/2	13/2	6
Total	163/13	138/15	330/37	297/51	7
(4)	Weapons/sorties of trements shown about	perationally reve:	equired to ach	ieve "over	8 9
	196/16	166/18	396/44	357/60	10
15. PROI	BABILITY OF ACHIEV	ING DESIRED LET	VEL: 50%		11

HP NET

#48

(Revised by 15th Note to Holders) $\Lambda = C - 18B - \frac{1}{4}$

3

TABBB to Annex C to Appendix A





I. TARGET NUMBER: 49	
2. BE NUMBER: 616-0116	2
5. IDENTIFICATION: Ha Noi Petroleum Products Storage Thanh Am	3
	4
4. DATE OF INFORMATION: 21 February 1965	5
DATE OF TISD: 26 June 1969	6
DATE OF PHOTOGRAPHY: 21 February 1965	7
DATE OF PHOTOGRAPHICE REVIEW: 2 April 1969	•
5. LOCATION: 21-03-56N 105-53-51E, located 3.5 NM NE of Ha Noi.	8
22 revetted vertical tanks	9
6. DESCRIPTION: The target area contains 32 revetted vertical tanks.	10
	- 11
There are two rail transfer points and a probable truck loading area. The	12
amount area includes about 38 buildings of various	13
and tenced, and is served by rail and road.	
of 30,620 metric	14
7. SIGNIFICANCE: This facility has a storage capacity of 30,620 metric	15
7. SIGNIFICANCE: This facility has a storage tapacity, representing tons. It is the second largest POL storage depot in the country, representing	16
about 14% of the total national capacity. The depot is believed to be the	17
about 14% of the total national capacity. The depot is serves as principal distribution point for most of the country. The target also serves as	18
principal distribution point for most of the country. The target of the receiving facility for POL imports entering the country by way of rail across	19
Communist China.	
Community Community of and	20
8. TARGET ENVIRONMENT: The target is located 3.5 NM NE of and	21
8. TARGET ENVIRONMENT: The target is located shove sea level. 10. TOSS the river from Ha Noi, at an elevation only a few feet above sea level. 11. TOSS the river from Ha Noi, at an elevation only a few feet above sea level.	22
With the exception of the built-up area of Ha Noi, and the Gia Lam Airport 1.5	23
With the exception of the built-up area of Ha Not, and the out wetland rice. NM to the S, the target is surrounded by flat plains cultivated in wetland rice.	
NM to the S, the target	24
9. DEFENSE ENVIRONMENT:	
	25
. The target is within the SAM envelope.	
AAA activity has been identified within 3 NM of the target.	26
. HMG and small arms fire is anticipated.	27
Canad POI Damage criterion	28
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion	29
the same thinks and distortion of super-	. 30
Firing of spilled contents will enhance disability.	
rating on approximate on hand	. 31
II. EFFECT ON NVN: Loss of the storage capability and stocks on hand	32
it this facility significantly reduce the supply of POL throughout the country,	33
at this facility significantly reduce the supply of POD through as well as the and discupt both the flow of rail shipments into the country, as well as the	34
and discupt both the flow of rail shipments into the country, as distribution throughout a very large area. Shipments southward, including those distribution throughout a very large area, would be severely reduced.	35
A COLUMN AND TO THE VICE COME THE T	



ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BC-2

Tab BC to Annex C to Appendix A

(Revised by 17th Note to Holders)

SECLET

12. RECUPERABILITY: Restoration of this target to full pre-strike capability would require three to six months. North Vietnam is not known to be manufacturing tank components, appropriate steel tubing, pipings, pumps, or other items basic to the construction or maintenance of POL storage facilities. The existing reliance on imported materials and skills is expected to continue indefinitely. Although pre-fabricated tanks of Soviet design can be installed on a prepared site in about a week, it appears unlikely that either the Soviet or the Chinese could place all the necessary elements together in less than four weeks, even under emergency conditions.

13. COLLATERAL DAMAGE:

d.	Insignificant
----	---------------

b.	Po	pulation			C	Casualtic	g. ¢	12
	t Area	-	nt Area	Target	Area	Adjace	ent Area	13
Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	14
25	40	0	160 .	2	2	0	2	15
#Caes	ialties s	stimate	d under da	aylight al	ert con	ditions.		16
			nove Al					17

14. RECOMMENDED WEAPONS AND SORTIES:

The target is comprised of two areas. One area (including 4 sub areas) has been delineated for weapons application. Weapons and sorties have been computed for each sub area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

WEAPONS	250# SNAKEYE	500# or SNAKEYE	500# or <u>BOMB</u> or	750# BOMB	24 25
					26
Area A-1 (505' x 165')	27/2	21/2	48/5	39/7	27
•					28
Area A-2 (270' x 155')	18/2	15/2	35/4	29/5	29
·					3G
Area A-3 (275' x 265')	33/5	26/3	46/5	37/6	31
	•				32
Area A-4 (295' x 75')	13/1	10/1	35/4	28/5	3 3
[otal	91/8	72/8	164/18	133/23	34



A-C-BC-3

(Revised by 17th Note to Holders)

Tab BC to Annex C to Appendix A 2

3

6

10

11

18

19

20

21

SEC	ET

(2) V requirements s	Weapons/Sorties o	perationally requ	ired to achieve	"over target"	2
	109/!0	86/10	197/22	160/28	3
(3) required over t	In order to achiev	e a damage level	of 70%, weapo	ns/sorties	4 5
WEAPONS	250# Snakeye o	500# r snakeye o	500# r BOMB or	750# BOMB	6 7
Area A-l	89/7	71/8	161/18	131/22	8
Area A-2	60/5	48/5	118/13	. 96/16	9
Area A-3	110/4	85/9	155/17	124/21	10
Area A-4	43/4	34/4	116/13	94/16	11
Total	302/25	238/26	550/61	445/75	12
	Weapons/sorties of shown above:	operationally req	uired to achiev	e "over target"	13 14
	362/30	286/31	660/73	534/90	15
IS DROF	BABILITY OF ACH	HEVING DESIRE	D DAMAGE LE	VEL: 50%.	16



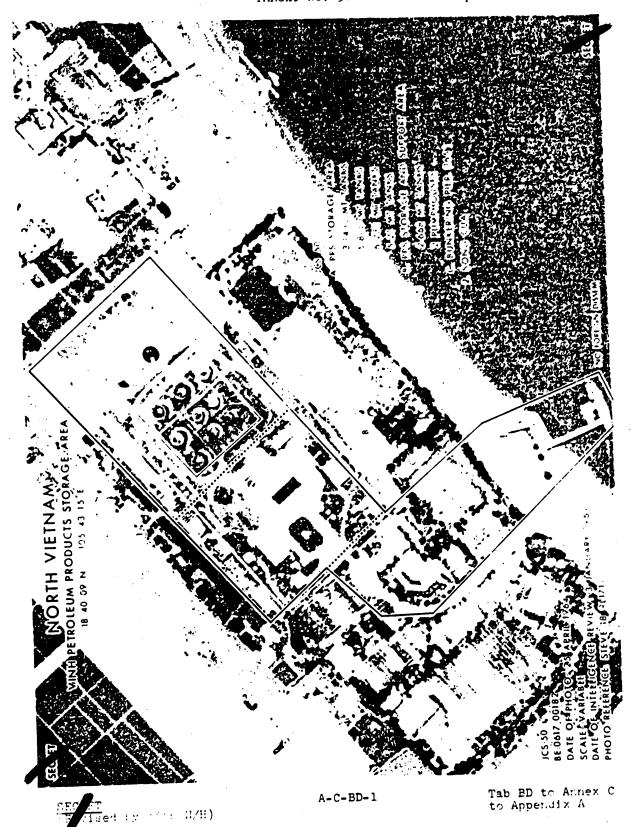
A-C-BC-4

(Revised by 17th Note to Holders)

Tab BC to Annex C to Appendix A



TAB BD TO ANNEX C TO APPENDIX A TARGET NO. 50





1. TARGET NUMBER: 50	1
2. B. E. NUMBER: 617-0182	2
3. IDENTIFICATION: Vinh Petroleum Products Storage	3
4. DATE OF INFORMATION: 31 December 1968	4
DATE OF TISD: 11 March 1969	5
DATE OF PHOTOGRAPHY: 25 April 1964	6
DATE OF INTELLIGENCE REVIEW: 3 January 1969	7 .
5 LOCATION: 13-40-09N 105-43-15E, located 3 NM E of Vinh.	8
6. DESCRIPTION: The target area contains 3 large, 5 medium,	9
	10
There are 8 major and 11 minor support buildings	11
2 pumphouses, and a bunkering pier. The target area is enclosed by	12
a fence.	13
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	14
7. SIGNIFICANCE: This target is the 3rd largest POL Storage	15
7. SIGNIFICANCE: This target is the direct place of the storage capacity of 12,270 metric tons. Located Depot in NVN, with a storage capacity of 12,270 metric tons. Located	16
Depot in NVN, with a storage tapacty of the southern part of the country, this depot plays a key role in the staging of transport-supply operations into South Vietnam and Laos.	17
	18
8. TARGET ENVIRONMENT: The target is 6' above sea level,	19
5 NM inland, and 5 NM E of Vinh. It is situated on the N side of a bend	20
	21
	22
The state of the s	23
1. 10 bigh Low areas between the ridges contain wettand grant	24
mounds, and scattered areas of brush.	•
9. DEFENSE ENVIRONMENT:	25
	26
a. The target is within the SAM envelope.	20
b. AAA activity has been identified within 3NM of the target.	27
HMG and small arms fire is anticipated.	28
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage	29
The same and distortion of exposed belong	30
and equipment. Firing of spilled contents will enhance disability.	31
11. EFFECT ON NVN: Loss of this storage facility would leave	32
	33
force reliance on packaged and drummed stocks and POL barges.	34



SECKET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BD-2

Tab BD to Annex C to Appendix A

(Revised by 17th Note to Holders)



strike capabil not known to be tubing, piping maintenance or reliance on in indefinitely. A installed on a that either the elements together.	ity would require manufacturi, pumps, or of POL storage proted material prepared site. Soviets or the ther in less the LATERAL, DAlight damage to	ire several ng tank com ther items is facilities of ials and ski abricated to in about a see Chinese Chan 4 weeks	months aponent basic to of this i lls is e anks of week, i ould pl	s. Nort s, appro the con type. T xpected Soviet d it appear ace all	h Vietna opriate nstructi he exist to conta lesign ca rs unlik	am is steel on or ting inue an be ely	1 2 3 4 5 6 7 8 9 10
b.	Population		Ca	sualties	; *	٠.	13 -
Targ	et Area Adjao	cent Area	Targe	t Area	Adjacer	t Area	. 14
Mil	Civ Mil	Civ	Mil	Civ	Mil	Civ	15
3	0 6	70	0	0	0	. 1	.16
-	ialties estimat	ed under da	ylight	alert co	nditions	١.	17
14. REC	OMMENDED	WEAPONS A	AND SC	RTIES:	•		18
been compute the damage l achieve "ove	he target consed for one are evel prescriber target" required to ired over target arg	a. To showed, total we irements a achieve a d	the efapons/	fort req sorties shown,	uirea to require	d to	21 20 21 22 23 24
2011100 104		500#	5	00#	750#		25
WEAPON	SNAKEYE		_		or BON		26
Area A (320' x 210')	33/3	26/3	!	52/6	44/	7	27
over targe!	2) Weapons/s	orties oper ts shown ab	ational	ly requi	red to a	chieve	28 29
	40/3	32/4		63/7	53/	10	30
	3) In order to iired over tar		iamage	level o	{ 70%, \	veapons/	31 32
	250#	250#		500# BOMB (750s		33 34
WEAPON Area A	SNAKEYE u	85/9	•	174/19	148		35
						•	



A-C-BD-3

(Revised by 17th Note to Holders)

Tab BD to Annex C to Appendix A



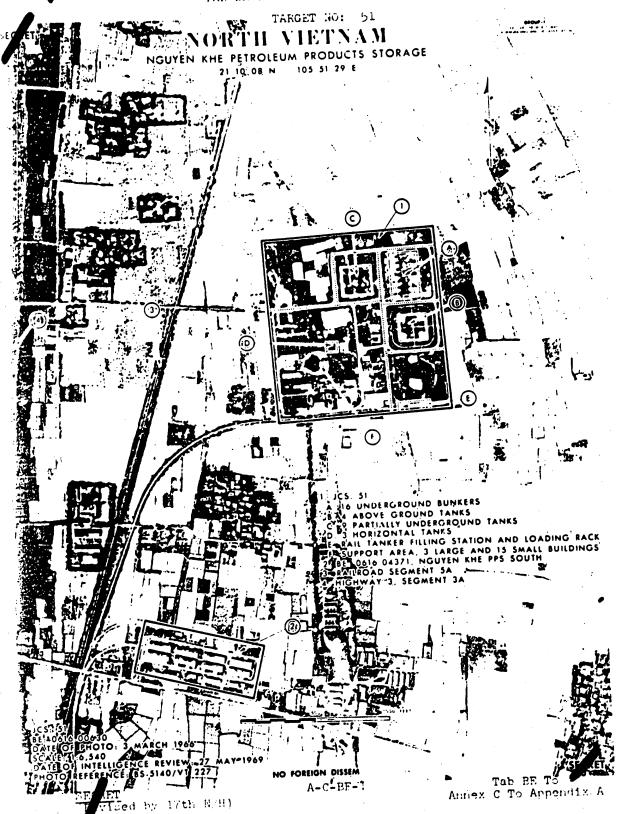
(4) Weapons/sorties operationally required to achieve 'over target" requirements shown above:							
	134/11	102/11	209/23	178/30		3	
15. PRO	BABILITY O	F ACHIEVING	DESIRED D	AMAGE LEVEL: 5	0%	4	

SEC AET

A-C-BD-4

(Revised by 17th Note to Holders)

Tab BD to Annex C to Appendix A





1. TARGET NUMBER: 51	•	:
2. BE NUMBER: 616-0630	2	:
3. IDENTIFICATION: Nguyen Khe Petroleum Products Storage	3	
4. DATE OF INFORMATION: 3 March 1966	4.	
DATE OF TISD: 10 June 1969	6	
DATE OF PHOTOGRAPHY: 3 March 1966	7	
DATE OF INTELLIGENCE REVIEW: 27 May 1969	•	
5. LOCATION: 21-10-08N 105-51-29E, located 8.5 NM N of Ha Noi.	8	
6. DESCRIPTION: The target area contains 13 vertical tanks of which 9 are	9	
The second of th	10	
and analy a pail lanker loading laction und to the	11	
3 probable horizontal lanks a lant tames to be served by rail and road. and barracks-type buildings. The facility is served by rail and road.	12	
7. SIGNIFICANCE. This depot has a storage capacity of 7,500 metric tons,	- 13	
7. SIGNIFICANCE. This depot has a storage facility in the country, representing about and is the 7th largest POL storage facility in the country, representing about	14	
and is the 7th largest POL storage lactify in the country, 3% of the total national capacity. The target is believed to serve the military	15	
3% of the total national capacity. The target is settled	16	
forces in northern provinces.		•
8. TARGET ENVIRONMENT: The target is located 8.5 NM N of Ha Noi	17	
TARGET 10' above sea level. It is situated on a flat, rice-	18	
	19	
ur 4 = E about 1 5 NM to the N4 A tonk 1.08 of the	20	
a point about 9 NM NNW of the target, and rises to over 5000'.	21	
9. DEFENSE ENVIRONMENT:	22	:
a. The target is within the SAM envelope.	23	3
b. AAA activity has been identified within 3 NM of the target.	24	4
c. HMG fire and small arms is anticipated.	2	5
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion	2	6
10. DAMAGE OBJECTIVE: Destruction of exposed piping and equipment.	. 2	7
is rupture of storage tanks and distortion of exposed prime and of a prime of spilled contents will enhance disability.	2	8
11. EFFECT ON NVN: Loss of storage capability and stocks on hand at this	_	9
The short and of tupin in the northern provinces, and	-	30
require rerouting of materials needed elsewhere. Additional burdens		31
would be placed on other facilities in the Ha Noi area.	3	32

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BE-2

Tab BE to Annex C to Appendix A

(Revised by 17th Note to Holders)



12. RECUPERABIL capability would requise not known to be matubing, piping, pumps maintenance of PCL amaterials and skills if abricated tanks of Soabout a week, it appeared the property conditions	re several naufacturing to interest it or other it it orage facilities expected to viet design (ars unlikely cessary eler	ank contractions to the contraction contraction contractions contracti	omponents, easic to the of The existing inue indefinitions installed on	approposition of the construction of the const	priate stee fuction or ance on im Although p spared site	ported ore- in ese	2 3 4 5 6 7 8 9
13. COLLATERAL	DAMAGE:						11
a. Insignifica	int			•			12
b. Pop	ulation			Casu	alties#		13
Target Area	Adjacent	Area	Target	Area	Adjacent	Area	14
Mil Civ	Mil	Civ	Mil	Civ	Mil	Civ	15
12 0	339	95	1	0	3	1	16
*Casualties		der da	vlight alert	condi	tions.		17
This installativen computed for 3 the damage level practice are also shown:	tion is comp	rised	of 6 areas.	Wear			18 19 20 21 22
(1) In order (to achieve a	dama	ge level of 3	0%, w	reapons/so	rties	23 24
WEAPON	250# SNAKEYE	or	500# SNAKEYE	or	500# BOMB o	750# r BOMB	25 26
Area A (315' x 200'	19/2		15/2	٠	31/3	25/4	27
Area B (175' x 175')			10/1		23/3	19/3	28
Area C (190' x 190')			22/2		50/6	39/7	29
Totals	61/6		47/5		104/12	83/14	30
	s/sorties op	e ratio	nally requir	ed to	achieve "o	ver target"	31 32
	73/7		56/6		125/14	100/17	33
(3) In order	er to achieve get:	a dar	nage level o	£ 70%,	, weapons/	sorties	34 35

SEC LET

A-C-BE-3

(Revised by 17th Note to Holders)

Tab BE to Annex C to Appendix A

SE RET						
WEAPON	250# Snakeye	or	500# SNAKEYE or	500# BOMB or	750# BOMB	1 2
Area A	63/5	٠,	49/5	102/11	82/14	3
Area B	39/3		32/4	76/8	64/11	4
Area C	100/8		75/8	167/19	130/22	5
Totals	202/16		156/17	345/3R	276/47	6
(4) Wei	apons/surties oper hown above:	rationa	lly required to a	chieve "ove	r target"	7 8
•	242/19		187/20	414/46	331/56	9
15. PROBA	BILITY OF ACHU	EVING	DESIRED DAM	AGE LEVEL	.: 50%.	10

SE RET

A-C-BE-4

(Revised by 17th Note to Holders)

Tab BE to Annex C to Appendix A





1. TARGET NUMBER: 51.1	1
2. BE NUMBER: 616-0662	5
3. IDENTIFICATION: Ha Gia Petroleum Products Storage SSW UG	3
DATE OF INFORMATION: 19 August 1966 DATE OF TIS: 25 September 1968 DATE OF PHOTOGRAPHY: 3 March 1966 DATE OF INTELLIGENCE REVIEW: 24 May 1968	4 5 6 7
5. LOCATION: 21-15-57N 105-50-17E, 14 NM N of Ha Noi and 3 NM	8 9
G. DESCRIPTION: The target area contains 9 underground POL tanks each 42 feet in diameter and 8 partially underground tanks each 8 feet in diameter, dispersed in the hilly terrain. A small barracks area is located just west of the tank area and approximately 30 support buildings and facilities for loading railroad tank cars and tank trucks are located just east of the tank area. On the hillside, between the tanks and the support area the words HO CHI MINH appear to have been inscribed by electing out the vegetation in the shape of the letters. The depot is served by road and rail. There is a large storage area, 1.1 NM to the N, and an unidentified barracks type area, 3.1	10 11 12 13 14 15 16 17 18 19 20 21
7. SIGNIFICANCE: This facility is the fifth largest POL atorage depot in North Vietnam, and the estimated capacity of 0,010 metric tons represents about 5 per cent of the country's 100 storage capacity. The target is believed to provide back-up to the on-site storage facilities at the Phuc Yen Airfield and may also serve other military forces in the northern regions. As jet fighter aircraft have been identified as operating from the Yen Airfield, it is considered highly probable that jet fuel may be among the products stored at the target depot.	22 23 24 25 26 27 28 20 30
2. TARGET ENVIRONMENT: The target is approximately 130 feet above sea level, situated in the foothills at the southeastern end of the mountain range that parallels the Song Lo (River Claire). Theme foothills rise to about 1,000 feet above sea level 1.4 NM morthwest of the target area. Except for these hills to the northwest, the target is surrounded by low wetland ricefields and many meathered native villages.	31 32 33 34 35 36 37
O. DEFENSE ENVIRONMENT:	38
a. The target is within the SAM envelope.	39.
b. AAA activity has been identified within 3 NM of	40 41
the target. c. HMG and small arms fire is anticipated.	42



NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC REGRADING

(Revised by 15th Note to Holders)

TAB BFto Annex C to Appendix A



10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion is rupture of storage tanks and distortion of exposed piping and equipment. Firing of tank contents will enhance disability. Damage level is 30 per cent.	1 2 3
11. EFFECT ON NVN: Loss of this facility would deny significant stocks of FOL to all forces currently supported and probably reduce the reserve stocks available to Phus Yen Airfield, thereby extending the line of resupply all the way to storage facilities at Ha Noi.	56 78
12. RECUPERABILITY: Restoration of this target to full pre- attack capability would require many months and heavy ouside as- sistance, probably from China. North Vietnam is not known to be manufacturing tank components appropriate steel tubing, piping, pumps, or other items basic to the construction or maintenance of POL storage facilities. It is expected that a high priority would be assigned to the repair activities due to the significance of the facility.	10 11 12 13 14 15 16
13. COLLATERAL DAMAGE:	17
a. Insignificant	18
b. Population Casualties*	19
Target Area Adjacent Area Target Area Adjacent Area	<u>2</u> 0
Mil Civ Mil Civ Mil Civ Mil Civ	21
50 90 16 110 3 5 0 1	22
* Casualties estimated under daylight alert conditions	23
14. RECOMMENDED WEAPONS AND SORTIES:	24
This target is comprised of 3 areas. One area (with two sub-areas) has been delineated for weapons application; weapons and corties have been computed for this area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:	25 26 27 28 29
(1) In order to achieve a damage level of 30%, weapons/ sorties required over target:	30 31
250# 250# 500# 750# WEAPON SNAKEYE OF BOMB OF BOMB	32 33
Area B-1 (50 x 250) 9/1 35/3 25/3 23/4	34
Area B-2 (350 x 750) 55/5 83/7, 59/7 55/9	35
Totals 64/6 118/10 84/10 78/13	36
(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:	37 38
78/7 144/12 102/12 95/16	39

TG, OME:

#51.1

(Revised by 15th Note to Holders) $\Lambda - C - BF - 3$

TAB BF to Annex C to Appendix A



sorties r	(3) In order t equired over tar		eve a dama	ge lev	el of 70%,	wea	pons/	1
WEAPON	250# Snakeye	or	250# BOMB	or	500# BOMB	or	750# BOMB	2 3
∧rea B-1	31/3		119/10		85/10		78/13	4
Aren B-2	186/16		281/24		500\55		186/31	5
Totals	217/19		400/34		285/32		264/44	6
"over. tai	(4) Weapons/sorget" requirement	rties s show	operations n above:	ally r	equired to	achi	eve ·	7 8
	265/23		488/41	•	348/39		322/54	9
15. 1	PROBABILITY OF AC	HIEVIN	G DESTRED	DAMAG	E LEVEL:	50%.		10



#51.1

A- '-EFa-1

AP PPA * 7



1. TARGET NUMBER: 51.11	• ,
2. BE NUMBER: 616-0234	5
3. IDENTIFICATION: Bue Giang Petroleum Products Storage	3
7. DATE OF INFORMATION: 9 August 1968 DATE OF TIB: 7 October 1968 DATE OF PHOTOGRAPHY: 29 April 1966 DATE OF INTELLIGENCE REVIEW: 14 August 1968	4 5 7
LOCATION: 21-15-57N 106-12-01E, located 27 NM NE of Ha Noi.	8
6. DESCRIPTION: This facility consists of four areas. Area A is bunkering pier. Area B is a storage area and consists of 4 cylindrical tanks, each 27-feet diameter, and 4 horizonal tanks. Area C is support/transchipment area and consists of 1 control building, 2 transchipment buildings, 4 support buildings and 1 PUG vertical tank of undetermined size. Area D is an U/G storage area and consists of 27 U/G horizonal tanks and 1 PUG vertical tank of undetermined size. This facility is served by road and rail. The entire target area is fenced.	10 11 12 13 14 15 16
7. SIGNIFICANCE: This facility is a key point in the distribution of POL to the northeastern provinces. With a capacity of 2,140 metric tends, this facility serves as a transshipment point for products moving northward, as well as a distribution center for the Bac Giang tores.	17 18 19 20 21
3. TARGET ENVIRONMENT: Target, 10 feet above sea level, is at SW of Bae Glang, on N bank of a bend in Song Thuong (river). Flow of Borg Thuong is generally SE. Levee, topped by a road, runs along N side of target, parallel to river. Opposite stream bank also bordered by levee. Target on generally flat plains cultivated in wetland rice; plains contain scattered, low, terraced hillocks and many small villages. Narrow E-W trending bank of grass, and brush-covered hills break plains 2.3 NM S of target. Bighest hilltop 860 feet above sea level. Grassy mill reaching 400 feet above sea level is located 3.3 NM NW of target.	2345678931 2678931
O. DEFENCE ENVIRONMENT:	32
a. The target is within the SAM envelope.	33
b. AAA activity has been identified within 3 NM of the target.	34
c. HMG and small arms fire is anticipated.	35
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion is rupture of storage tanks and distortion of exposed piping and equipment. Firing of spilled contents will enhance disability.	36 37 38
11. EFFECT ON NVN: Loss of this facility and the stocks on hand will disrupt the flow of POL to the northeastern areas and deny supplies to consumers in the Bac Giang area.	39 40 41



NO FOREIGN DISSEM

A-C-Bra-2

(Revised by 15th Note to Holders)

TABBFato Annex C to Appendix A



TOTALS

required over target.

12. RECUPERABILITY: Restoration of this target to full, pre-strike capability would require a period of several months or possibly much longer. North Vietnam is not known to be manufacturing tank components, appropriate steel tubing, piping, pumps, or other items basic to the construction or maintenance of POL storage facilities of this type.

The existing reliance on imported materials and skills is expected to continue indefinitely. Although prefabricated tanks of Soviet design to continue indefinitely. Although prefabricated tanks of Soviet design can be installed on a prepared site in about a week, it is unlikely that either the Soviets or the Communist Chinese could place all the necessary elements together in less than four weeks.

13.	COLLATERAL	DAMAGE:

13. COLLATERAL D	AMAGE:	. ,					**
a. Insignif							12
•	pulation		Ca	sualti	es*		13
Target Are		Area	Target	Area	Adjacent	Area	14
Mil Ci		Civ	Mil	Civ	Mil	Civ	15
	25 0	60	0	2	0	1	16
	s estimated u	nder cay	light ale	rt cond	litions		17
14. RECOMMENDED			•				18
The target of thick have been del	nonciets of f	our area	s, includ	ing fiv	ve sub-are	888	19 20
(1) In order	r to achieve	a dmage	level of	30%, w	eapons/sor	rties	22 21
TEAPON	500# SNAKI	EYE	or	75 B0			23 24
-1 (140 x 110)	1	4/9		3	8/6		25
:-1 (60' Diameter)		4/1	4	1	3/2		26
)-1 (15 × 55)	ı	2/1		, 3	19/7		27
>> (60' Diameter)		4/1		3	13/2		28
n=3 (150 x 30)	1	3/1	٠.	L	13/7		59
TOTAL	ц	7/4		12	46/24		30
(2) Weapon	s/Sorties ope	rational	ly requir	ed to	achieve "c	ver target	31 32
Linda Lementon Duomi		:7 <i>1</i> 6		ľ	76/29		33

#51.11

A-C-Bra-3

57/6

(3) In order to achieve a dmage level of 70%, weapons/sorties

(Revised by 15th Note to Holders)

TABBFato Annex C to Appendix A

34 35

234567890

THE WIT	•		
WEAPON	500# Snakeye	750# or BOMB	. 2
Area B-1	47/5	126/21	3
Area C-1	11/1	42/7	. 4
Area D-1	40/4	132/22	5
Area D-2	11/1	42/7	6
Area D-3	141/5	145/24	7
TOTAL	153/16	487/81	8
) Weapons/sorties operationally equirements shown above:	required to achieve "over	9 10
TOTAL.	184/20	585/98	11
		AMAGE CRITERION:	12

:31802 AST

#51.11

A-C-Bra-4

(Added by 15th Note to Holders)

TABBFato Annex C to Appendix A



TARGET INFORMATION SHEET

1. TARGET NUMBER: 51.12	•
2. BE NUMBER: 616-0117	2
3. IDENTIFICATION: Nam Dinh Petroleum Products Storage	3
DATE OF INFORMATION: 11 October 1966 DATE OF TARGET PHOTO: 15 June 1965 DATE OF TIS: 13 September 1968 DATE OF INTELLIGENCE REVIEW: 22 July 1968	4 5 7
00 Ob 12N 106-10-39F	,
6. DESCRIPTION: This facility contains 7 cylindrical tanks ranging in size from 41 to 65 feet diameter, and 4 horizontal tanks about 10 to 12 feet in diameter. Support facilities include 1 large warehouse and 3 committer buildings. The target is served by road, rail and probably by river burge. The entire target is fenced.	10 11 12 13
7. SIGNIFICANCE: This target, with an estimated storage capacity of 11,020 metric tons, is a key facility in the POL distribution system serving the southern provinces. POL supplies for the Viet Cong and Pathet Lao forces possibly move through this facility.	14 15 16 17
8. TARGET ENVIRONMENT: Target, at near sea level, located at SE edge of Nam Dinh (town), on W bank of Nam Dinh Giang (stream). Target area is an extensive flat minutely compartmented, rice-cultivated plain, crossed by N-S oriented Nam Dinh Giang and many smaller tributaries; numerous small villages, with local tree cover dot the plain. Principal road crowerge on Nam Dinh town from all directions; N-S oriented road on W converge on Nam Dinh Giang passes through target site. Limestone ridges, bank of Nam Dinh Giang passes through target site. Limestone ridges, about 1500 ft. above sea level, are 15 nm W of target, at rim of plain. Gulf of Tonkin is 18 nm SE of target across flat coastal plain.	25 26
O. DEFENCE ENVIROLMENT:	27
a. The target is within the SAM envelope.	. 58
b. AAA activity has been identified within 3 NM of the target.	50
e. HMG and small arms fire is anticipated.	- 30
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion is rupture of storage tanks and distortion of exposed piping and equipment. Firing of spilled contents will enhance disability.	31 32 33
11. EFFECT ON DRV: Loss of this facility and the stocks on hand would disrupt the flow of POL to the Viet Cong, Pathet Lao and other consumers in the southern provinces, and remove significant transshipment facilities connecting these provinces with the sources of supply in Ha Noi ard Hai Phong.	34 35 36 37 38
1. RECUPERABILITY: Restoration of this target to full, prestrike empablify would require several months or longer and involve the use of heavy equipment. North Vietnam is not known to be manufacturing tank components, appropriate steel tubing, piping, pumps, or other items basic to the construction or maintenance of POL entering facilities of this magnitude.	39 40 41 42 43 44



TABBFbto Annex Cto Appendix A

	4
CTA	TOTT
36	WEST

						:
13. COLLATERAL DAMAG	<u>E</u> :					1
a. Light damage	to surrounding ar	ea.				2
b. POPULATI	ON ·			asualtie	es*	3
•	ACENT AREA	TARGET	AREA	ADJACE	NT AREA	4
Mil Civ Mil		M11	Civ	Mil	Civ	5
0 45 0		0	3	0	2	6
Casualties esti	•	ight ale	ert cond	ditions.	•	7
1/1. RECOMMENDED WEAPO	•	_				8
This target is continued for weapons a imputed for each sub-arched damage levels prescribed are also shown:	omprised of four pplication. Weapes. To show the ihed, total weapo	effort ns/sort	require ies req	d to ach uired ov	ieve er the	10 11 12 13
(1) In order to ortics required over ta	achieve a damage rget:	level o	r 30%,	weapons/	,	14 15
EAPONS:	500# SNAKEYE		750#	вомв		16
rea A (310x65)	5/1		. 1	14/2		17
rea B (280x41)	8/1		2	26/4		18
ren C (57x27)	13/1		. 1	42/7		19
otals:	26/3		•	82/13		20
(:') Weapons/So: arget" requirements sho	rties operational	ly requ	ired to	achieve	"over	22 21
vitals:	32/4			99/17		23
(3) In order together target:	o achieve a damag	ge level	. of 70%	, weapor	ns/sorties	25
VEAPONS:	500# SNAKEYE		750#	# BOMB		26
\rea Λ	15/2			47/8		27
Area B	25/3			86/14		28
MICA D	42/5			141/24		29
A=00 C				274/46		30
Area C	82/10			,		
Totals:	orties operations	ally req		• •	e "over	31 32
Totals:	orties operations	ally req		• •	ve "over	



2

(Revised by 15th Note to Holders) Λ -C-EFb-3

TABBFb to Annex C to Appendix A



1. TARGET NUMBER: 51.13	•
2. BE NUMBER: 616-0081	!
3. IDENTIFICATION: Do Son Petroleum Storage	3
TONE ALL 2006	4
4. DATE OF INFORMATION: 14 July 1966 DATE OF TIS: 20 June 1966	5
THE OF THOTOCHAPHY: A September 1997	6
DATE OF INTELLIGENCE REVIEW: 21 September 1965	7
5. LOCATION: 20-42-26N 106-47-53E UTM XH 868900	8
6. DESCRIPTION: This installation previously consisted of two areas,	9
and a new included and a new intally area.	
	1
1 CEN FACE ALBERTATE LENDE DE LENDE DE LE LE LENDE DE LE LENDE DE LE LE LENDE DE LE LE LENDE DE LE LENDE DE LE LE LE LE LE LE LE LE LENDE DE LE	12
	13
	14 15
	-
	16 17
	18
considered to be a part of the POL storage facility.	10
	19
7. SIGNIFICANCE: This facility with an estimated capacity of 4,000	20
	21
	22
	23
capability and might also support operations at the anyone	24
should it be reactivated.	
The serget is on the irregularly-	25
8. TARGET ENVIRONMENT: The target is on the irregularly-	26
	27
	28
	29
occupying most of its southern part. The target area is near a cliff occupying most of its southern part. The target area is near a cliff with nearby hills reaching to 425 feet above sea level. Cultural features with nearby hills reaching to 425 feet above sea level.	30
with nearby hills reaching to 425 feet above sea to the visit material of the town of Do Son is approximately 0.4 NM are moderately dense. The town of Do Son is approximately 0.4 NM	31
are moderately dense. The town of Do Son is approximately	32
northwest of the target.	
9. DEFENSE ENVIRONMENT:	.3.3
Loon Adont Class within Glas missile	74 4
a. Thirteen SAM sites have been identified within SA-2 missile range (17.5 MM) of the target, and 9 additional SAM sites have been identified 18-30 MM distant.	35 36
b. Identified AAA activity in the Do Son area includes 2 active AAA sites, consisting of 8 occupied 57/85-mm revetments and 4 occupied 37-mm revetments. In addition, there is 1 inactive site in the area. (DOI: 12 November 1965)	40
c. Moderate HMG and small arms fire is anticipated as trenching, numerous AW positions and foxholes are evident in the immediate vicinity of this target.	41 42 43

TOP SCRET

A-C-BFc-2

Tab BFc to Annex C to Appendix A

(Revised by 9th Note to Holders)



				•	
rupture of s Firing of sp	torage tanks illed content	and distortion of a will enhance di	sability.	Damage criterion is ping and equipment.	1 2 3
		C - bio facilit	v and stock	s on hand would disru and induce reliance o	pt 4
the flow of	POL to consulting at reduce	mers in the penins and rates, or on di	ular area, rect supply	and induce reliance of from Hai Phong.	on 5 6
packaged see				c	7
12. RECUPE	RABILITY: R	estoration of the	target to	- noseibly much longe	er. 8
canability i	ould require	W bellog of sever		ADDTODTIA	te 9
North Vietna	am is not kno	AM FO DE INDIGERACIO		to the construction	or 10
steel tubing	g, piping, pu	mps or delier eda-		reliance on imported	11
maintenance	of POL store	Se racificies.	Andofin	tealy. Although	12
materials a	nd skills 15	expected to commit	1 1 .	d on a prepared site	13
prefabricat	ed fauks of	inlikely that eith	er the Sovi	ets or the Communist her in less than 4	14 15
IN ADOUT A	id place all	the necessary ele	ments toget	her in less than 4	16
weeks.	10 p. 100			•	••
	TERAL DAMAGE	•			17
					18
a. Ir	significant			1.0.4.0.0	19
ь.	Populat	noi	Casi	ualties*	
T	arget Area	Adjacent Area	Target Are	_	20 21
м	11 C1V	Mil Civ	Mil Civ	_	22
	0 . 0	0 100	0 0		23
n	Casualties e	stimated under day	light alert	conditions.	
		INS AND SORTIES:			24
14. RECC	ANTENDED THE	chieve a damage le	wel of 30%	weapons/sortics	. 25
e. 1	in order to and over targe	chieve a damage		•	26
redorr			250#	500# 750#	
	250#	250#	£301	BOMB or BOMB	
WEAPON	SNAKEYE	or BullPup or	BOUID OF		25
(50×200)	8/1	5/3	29/2	21/2 19/3	27
b.	Weapons/sort	ies operationally above:	required to	achieve "over targe	t" 28 29
requii		6/3	35/4	26/3 23/4	30
	10/1	· · · · · · · · · · · · · · · · · · ·			31
c.	In order to	achieve a damage	level of /o	%, weapons/sorties	32
requi	red over targ	get:			
•			250#	500# 750#	
	250#	250# cor BullPup or		BOMB or BOMB	
WEAPON	SNAKEY	G OF BULLEON			33
	27/2	17/9	98/8	71/8 64/11	,,,
	2112			tare Mover tare	et" 34
d.	Weapons/sor	ties operationally above:	required	to achieve "over targ	35
redu		21/11	120/10	87/10 78/13	36
	33/3	· •		vel: 50%	37
15. <u>P</u>	ROBABILITY O	ACHIEVING DESIRE	מנאמייים ע		
				•	
	<u>, </u>				
TOP D	CRET	A C-BEC.	.3	Tab BF	e to



A-C-BFc-3

Tab BFc to Annex C to Appendix A

(Revised by 8th Note to Holders)



571



1. TARGET NUMBER: 51.14	•
2. <u>BE NUMBER:</u> 616-0319	2
3. IDENTIFICATION: Viet Tri Petroleum Products Storage	3 .
4. DATE OF INFORMATION: 12 May 1966	4
DATE OF IS: 20 June 1966	6
DATE OF PHOTOGRAPHY: 14 February 1965 DATE OF INTELLIGENCE REVIEW: 21 April 1965	7
5. LOCATION: 21-17-46N 105-26-08E, UTM WJ 453547	8
6. DESCRIPTION: This facility consists of 9 tanks including 1	9
inderground tank of about 50 foot diameter. The other tanks range in	10
size from 15 to 45 feet in diameter. There are 3 support buildings, one	11
lize from 15 to 45 feet in diameter. There are 5 support to the facility is served	12
of which serves as a drum storage warehouse. The facility is served by road and rail, and may have a small barge landing nearby.	13
7. SIGNIFICANCE: This facility, with a storage capacity of at	14
east 4,000 metric tons, is a key transshipment point for POL supply	15
novements to the northwestern regions.	16
8. TARGET ENVIRONMENT: Target is about 30 ft. above sea level	17
and is located in the town of Viet Tri. It is about 0.2 NM N of the	18
and is located in the town of viet 171. It is about on The terrain sur-	19
confluence of the Red River and the Riviere Claire. The terrain sur-	20
rounding the target is generally flat and planted to wetland rice Many	21
the sille new or come the slightly raised areas. A rail yard 650 feet	22
as the N bag we would line that extends S to the larget. Larget is disc.	23
served by several roads. A combination highway and railroad bridge crosses the Riviere Claire about 0.7 RM ENE of the target.	24
9. DEFENSE ENVIRONMENT:	25
	26
a. Eleven SAM sites have been confirmed within SA-2 missile	27
range (17.5 NM) of Viet Tri and 9 sites are located between 18-30 NM distant.	28
b. Identified AAA activity in the Viet Tri area includes 17 active	29
b. Identified AAA activity in the viet 111 and 85mm revetments) sites (22 occupied 37mm and 102 occupied 57mm/85mm revetments)	30
and 5 inactive AAA sites. (DOI: 21 July 1965-4 March 1966)	31
c. No military units are carried in the immediate vicinity of	32
c. No military units are carried in the initiation form local	33
Viet Tri; however, machine guns/small arms fire from local security and militia elements would be anticipated.	34



A-C-BFd-2

Tab BFd to Annex C to Appendix A

(Revised by 8th Mote to Holders)



						•			
10. E	AMAGE	OBJEC	TIVE:	Destruction	of sto	red POL.	Dan	nage	1
criterio	n is run	ture of	storage	tanks and d	istorti	on of expo	osea p	nbing	2
and equ	ipment.	Firing	of spill	ed contents	will e	nhance di	sabili(y.	3
11 5	PEFECT	ON NV	N: Los	s of this fac	ility a	nd stocks	on ha	nd would	4
4:	the flow	AL POI	, to the	northwestel	n regi	ons and re	emove		5
signific	ant tran	sshipme	ent point	between th	ese ar	eas and th	re sou	rce of	6 7
supply	at Ha No	oi.							
	n ECUDE	DARIT I	rrv. Ra	storation o	f this t	arget to f	ull. p	re-strike	8
		d waanis	e a ner	ind of sever	eri moi	ntns or po		1114611	,
10000	North	Vietnan	n is not	known to be	: manu	lacturing	tank	:onipo-	10 11
1-		iate ste	el tubin	e, piping, P	umps.	or other	Ircins	The	12
to the c	onstruc	tion or	mainten	ance of POI	nd ski	lle is exp	ected		
	4	lebough	nrefabi	ricated tank	8 OI 50	viet desig	gn can	DE	• •
in men 11.	-d -n		d site in	about a we	ek, Il	appears u	niikei	y mat.	15
either	the Sovi	ets or t	he Comi	munist Chin	ese co	ara brace	all th	e	16 17
necess	ary eler	nents to	gether	in less than	4 wee	KS.		•	• •
13.	COLLA	TERAL	DAMAC	E:		٠.			18
	a. Insi	gnifican	t .					•	19
	b.	Popula	ation			Casualt	lies#		20
	Target	Area	Adjac	ent Area	Targ	et Arca	٨dj	acent Are	ea 21
				C :	Mil	Civ	м	il C	v 22
	Mil	Civ	Mil	Civ	MIII	0.1			
	0	25	0	100	0	2	0	1	23
	*Casua	lties es	timated	under dayl	ight al	ert condit	ions.		24
14.	RECO	MEND	ED WE	APONS AND	SORT	IES:			25
	a. In	order to	achiev	e a damage			capon	s/sorties	26 27
rec	quired o	ver targ	get:						
	. •	250#		250#		500#		750#	
WEA	PON	SNAKI	EYE o	or BOMB	or	BOMB	or	BOMB	
(150x	300)	19	/2	47/4		33/4		30/5	28
				operational	lv real	ired to ac	chieve	'over	29
tas	b. We røet"re	ouireme	ent show	n above:	-yq-				30
			/2	57/5	•	40/4		37/6	31
			. –	- •					



A-C-BFd-3

Tab BFd to Annex C to Appendix A

(Revised by 8th Note to Holders)



	order to achiev	e a d	amage lev	rel of	70%, wes	pons	/sorties	1 2
WEAPON	250# Snakeye	or	250# BOMB	or	500# BOMB	or	. 750# BOMB	
	64/5		158/13		111/12		101/17	3
	eapons/sorties quirement show			requi	red to ach	ieve '	over.	4 5
	78/7		193/16		135/15		123/21	6
15. PROB	ABILITY OF A	CHIE	VING DE	SIREI	DAMAG	E LE	VEL: 50%.	. 7

TOP ECRET

A-C-BFd-4

Tab BFd to Annex C to Appendix A



1. TARGET NUMBER: 51.16	1
2. BE NUMBER: 617-1018	2
3. IDENTIFICATION: Phu Qui Petroleum Products Storage.	3
4. DATE OF INFORMATION: 6 May 1965 DATE OF TIS: 7 May 1965	4 5
5. LOCATION: 19-13-05N 105-21-15E, WG 372248	6
caps have not been installed. Takes at horses, with also present are 16 support buildings of various sizes, with	7 8 9 10 11 12
storage capacity of about 10,000 metric tons, and are storage capacity of about 10,000 metric tons, and are storage facility in the DRV representing ap-	14 15 16 17
8. TARGET ENVIRONMENT: Target is about 230 ft. above sea level 38 nm NW of Vinh. It is situated in a narrow N-S orientated valley; valley floor is about 150 yards by 1300 yards long. Forested covered hills forming the valley walls rise above the target about 200 ft. on the E and about 250 ft. on the W. N of the target area forested rolling plains are interrupted in places by steep rounded hills. To the E and S is the partly forested, partly rice cultivated Song Con river plain. To the W, a rugged karst area forms an intricate pattern of steep sided hills and pinacles that rise to about 1000 ft. above sea level. Target is served by a branch road from the road that is west of and parallel to the Song Cor	18 19 20 21 22 23 24 25 27 28 27 28
9. DEFENSE ENVIPONMENT	30
a. Within the target area are 3 active light (14.5-37mm) AAA sites containing 8 occupied and 4 possibly occupied positions. About 5 nm SE is an unoccupied 57/85mm site of 6 positions. 6 unoccupied coastal defense gun positions and a supporting trench network is at Cap Falaise, 21 nm SE. An FC radar is also here.	31 32 33 34 35 36
b. Within 22 nm SE are 3 EW radars and there are 3 others probably within 30 nm SW.	37 38
c. A/W fire can be anticipated from troops in Phu Qui Barracks area (approximately 3000).	39 40
10. DAMAGE OBJECTIVE: Destruction of stored POL. Damage criterion is rupture of storage tanks and distortion of exposed piping and equipment. Firing of spilled contents when tanks in use will enhance disability.	41 42 43 44
ll. EFFECT ON DRV: Destruction of this facility will deny the establishment of a significant POL supply point for the	45 46



A-C-BFF-2

Tab BFf to Annex C to Appendix A



southern regi rea to rely sources.	ons of the NVN on packaged st	and requir orage or on	e military i more dista	forces in the nt resupply	1 2 3
strike capabl much longer to facturing tar other items to storage facil design can be	RABILITY: Rest Tity would require. North Vink components, basic to the colities. Although installed on by that either a necessary ele	uire severa etnam is no steel tubin nstruction igh pre-fabr a prepared the Soviets	nd months or the known to the contract of the contract of the children or the	possibly a be manu- pumps, or nce of POL s of Soviet ut a week,	4 56 7 8 9 10 11 12
13. COLLATI	ERAL DAMAGE:	Insignificat	nt.		13
14. RECOMM	ENDED WEAPONS	AND SORTIES			14
a. In sorties r	order to achie equired over to	ve a damage arget:	level of 30	%, weapons/	15 16
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
	14/1	41/3	30/3	28/5	17
b. Wea	pons/sorties o get" requireme	perationall nts shown a	y required bove:	to achieve	18 19
	17/2	50/4	36/4	34/6	50
c. In sorties r	order to achie	ve a damage arget:	level of 7	0%, weapons/	21 22
•	48/4	139/12	102/11	95/16	23
d. Wes	pons/sorties o	perationall ents shown a	y required	to achieve	24 25
	58/5	169/14	125/13	110/20	26
	DEFENDE OF ACUTI	STING DAMAGE	CRITERION:	50%	27





TAB BEG TO ANNEX C TO APPENDIX A

TARGET NO. 51.17



TOP ECRET

A-C-BFe-1

The Bho to Ame & Coto Ame with



1. TARGET NUMBER: 51.17	1
2. BE NUMBER: 616-1176	2
3. IDENTIFICATION: Duong Nham Pet Prds Str UG	3
	4
4. DATE OF INFORMATION: 14 July 1966	5
DATE OF TIS: 2CJune 1966	6
DATE OF PHOTOGRAPHY: 28 July 1965	7
DATE OF INTELLIGENCE REVIEW: 31 Aug 1965	
5. LOCATION: 21-01-46N 106-30-50E, UTM XJ 573260	8
The facility is probably completed. Poor quality	9
6. DESCRIPTION: This facility is probably completed. Poor quality	10
6. DESCRIPTION: This facility is provided in the diameter. Which are	11
	12
	13
	14
	15
	16
ground storage in small tunnels into the initiate. The tree by the nearby by road, and probably is capable of receipt and/or delivery by the nearby	17
river.	
- mile of the board total estimated capacity of	18
7. SIGNIFICANCE: This facility has a total estimated capacity of	19
7. SIGNIFICANCE: This facility had largest in the country. The 14,000 metric tons, and is about the 3rd largest in the country. The	20
	21
	22
tice in the Hai Phong area, and Will probably serve as a serve as	23
the principal facilities at Hai Phong be damaged.	
	24
8. TARGET ENVIRONMENT: The target, about 30 ft. above sea level,	25
	26
	27
	28
	29
	30
they are bounded by massive forested introduced and state of the target they are interfingered among hills sea level, and 5 NM NW of the target they are interfingered among hills are	31
	32
reaching 450 to 650 ft. above sea level. Many seattle (River) flows scattered within 3 NM of the target. The Song King Thay (River) flows acattered within 3 NM of the target.	
	33
SE 0.2 NM north of the target, and a road annual of the road, 0.3 NM NM SW of the target. A village is on the SW side of the road, 0.3 NM	34
NM SW of the target. A vinage to on	35 ·
SW of the target.	26
9. DEFENSE ENVIRONMENT:	36
	37
a. Hineteen SAM sites have been identified within SA-2 missile	38 38
a. Mineteen SAM sites have been identified with SAM sites have been range (17.5 MM) of the target, and 24 additional SAM sites have been identified 18-30 MM distant.	39
on a second and another to the immediate vicinity of	40
b. There is no identified AAA activity in the Hai Duong area (6 active the target. The nearest activity is in the Hai Duong area (6 active the target. The nearest activity is in the Hai Duong area (6 active the target.) The nearest activity is in the Hai Duong area (6 active the target.) The nearest activity is in the Hai Duong area (6 active the target.) The nearest activity is in the Hai Duong area (6 active the target.) The nearest activity is in the Hai Duong area (6 active the target.)	41
the target. The nearest activity is in the hall blong area (April 1966) gites) approximately 6 3/4 EM. (DOI: 17 January 1965 - 10 April 1966)	42
·	43
c. Sparse HMG and small arms fire is anticipated.	*3
<u> </u>	

TOP PECKET

A-C-BFg-2

Tab BFg to Annex C to Appendix A

(Revised by 9th Note to Holders)



•							i	
10. DAMAGE OBJE terion is rupture of st equipment. Firing of	orage tanks spilled cont	ents	will enha	nce	disabilit	, .	•	1 2 3
11. EFFECT ON NVN: Loss of this facility would deny the NVN a strategic reserve base which plays a significant part in their attempt to establish a secondary distribution system.								4 5 6
	LITY: Restoring a period in is not known ing, piping, tenance of Period materials a h pre-fabric ed site in ab	oration of second to pump OL second should be cated	on of this everal moon of the man on the control of this control of	her incilit xpec Sovi	turing ta tems ba- ies. Th- ted to.co et design ears unl	nk cosic to eximite the care in the care i	o the isting ie in be y that is neces-	7 8 9 10 11 12 13 14 15 16 17
13. COLLATERA	L DAMAGE:		•					18
a. None								19
	ulation			•	asualtie	5 [‡]		20
Target Area		rca	Target	Are	a Adjac	ent	Атеа	21
			Mil	Ci [.]			Civ	22
Mil Civ	Mil	Civ					0	23
. 0 5	0	20	0		-		v	24 24
*Casualties	stimated ur	nder	daylight	alert	conditio	ns.		64
14. RECOMMEN	DED WEAP	ONS	AND SOF	TE	<u>S:</u>		•	25
The targ been computed for the damage leve "over target" re	et consists or each area l prescribed quirements	of two	o areas. o show th al weapo also show	We ne ei ns/s wn:	apons an (ort requ orties re	quit	ed to achieve	
WEAPON	250# SNAKEYE	or	250 # BOMB	or	500# BOMB	or	750# BOMB	
Area A (200x700)	36/3		70/6		36/4		21/4	32
Area B (500x550)	40/3		48/4		36/4		33/5	33
Totals	76/6		118/10		72/8	٠	54/9	34
TOP SECRET	A	-C-B	Fg-3				Tab BFg to Annex C to Appendix A	

(Revised by 9th Note to Holders)

target" re) Weapons/sorti quirements show	m above:			2
	93/8	. 144/12	88/10	66/11	3
) In order to acl		e level of 70%	weapons/	4 5
WEAPON	250# Snakeye o	250# r BOMB or	500# BOMB or	750# BOMB	
Arca A	122/10	237/20	122/14	71/12	6
Area B	136/11	163/13	122/14	112/19	7
Totals	258/21	400/33	244/28	183/31	8
(ª target'' r	4) Weapons/sort	ties operations wn above:	ally required	to achieve "over	9 10
	315/26	488/41	298/33	223/37	11
15. PRO				AGE LEVEL: 50%	12

TOP ECRET

A-C-BFg-4

Tab BFg to Annex C to Appendix A

(Revised by 8th Note to Holders)



TAB BFh TO ANNEX C TO APPENDIX $\tilde{\Lambda}$



TOP STORET (Revised by 10th N/H) A-C-BFh-1

Tab BFh to Annex C to Appendix A



1. TARGET NUMBER: 51.19	,
2. BE NUMBER: 616-1340	2
3. IDENTIFICATION: Can Thon Petroleum Products Storage	2
4. DATE OF INFORMATION: 19 August 1966	4
DATE OF IIS: 22 August 1966	5
DATE OF PHOTOGRAPHY: 16 August 1965	6
DATE OF INTELLIGENCE REVIEW: 22 September 1965	7,
5. LOCATION: 21-23-35N 106-18-39E, UTM XJ 358661	8
6. DESCRIPTION: This facility contains 120 small horizontal tanks	9
The tanks have been individually incurred	::
paying verts and filler pipes exposed. The area also contains harries as	11
exposed drums and is fenced. The facility is road served.	12
7. SIGNIFICANCE: This facility, with an estimated capability of 410	13
7. SIGNIFICANCE: Into lacinity, with the first # 9.1' or North metric tens, could serve the airfield at Kep (JCS Tgt # 9.1' or North	14
wetric tens, could serve the arried at hep-to-order is less than 2 NM from Vietnamese ground forces in this area. The target is less than 2 NM from	15
the rail line connecting the Communist China transshipment facility as	16
Ping Hslang with Ha Noi and could serve as a small reserve base.	17
3. TARGET ENVIRONMENT: Target, about 100 ft. above see leve s	1=
1.7 NM SE of Kep, in an area of many closely spaced hilicoks which are	.9
. It is a second planted to welleng files. Dillocks are widen and	20
II. ON A Limbon then intervening IOW ATCAS, IGINC, IS " " " " "	21
Lille Le Wille heing I. U NM ENE UI GIKT G	22
elevations up to 1,200 %, within 5.0 NM of target. Highway and paralle ang	23
rail line, alined NNE-SSW, are 1.4 NM NW of target.	24
9. DEFENSE ENVIRONMENT:	25
a. Fifteen SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites are 18-30 NM distant.	26 27
b. No AAA desense activity has been identified in the immediate	28
there are an area being an are an active sites an alle Kontas	29
///	3C
There are also 5 inactive sites in the Kep area. (DOD:: 15 October 1965 -	34
3 June 1966)	· 2
c. Me derate HMG and small arms fire is anticipated as there are at	33
least 2 active military barracks installations in the Kep area.	3'4
Description of stored POL. Dimage criteria:	1 15
A A	
is rupture of storage tanks and distortion to object the property of spilled contents will enhance disability. Damage level is 30 per	37
	3 4
cent.	



A-C-BFh-2

Tab BFh to Annex C to Appendix A

(Revised by 10th Note to Holders)

TOP /	ECRET

III. EFFECT C	N NVN:	Destruct	ion o	this fac	ility	and the	stock	s on hand	1
would not criticall	y affect	the NVN.	Los	of the	tanks	thems	elves '	would	2
probably be the me	ost seri	ous result	, and	reroutir	ng of	supplie	s weu	ld be	3
required.									4
12. RECUPER	ABILIT	Y: Restor	ation	of the ta	rget	could b	e &200	omplished	5
in a very short tin	ne as th	e facilities	s are	not fixed	d. R	ecover	y time	would	6
depend on the avai	lability	of small t	anks	to replac	ce th	ose dan	na ged,	and the	7 8
inclination of the	North V	ietnamese	to co	ntinue u	se of	the are	a ior	tnis	9
purpose.						•			•
13. COLLATE	RAL DA	MAGE:							10
a. None									11
ъ.	Popu	lation				Casual	ties*		12
Targe	Area	Adjacent	Area	Tar	get A	Area .	Adjace	ent Area	1.3
Mil	Civ	Mil	Civ	Mil	(Civ	Mil	Civ	14
0	0	5	20	0		0	0	0	15
*C>=::	.11100.0	stimated u	nder	davlight	aler	t condit	ions.		16
									17
14. RECOMM									
a. In ord		hieve the	dama	ge level	of 30)%, wes	pons/	sorties	18 19
	;	250#		500#		750#		10004	
WEAPON		SNAKEYE	or	BOMB	or	BOMB	or	вомв	
Area A (200x350)	132/11		118/14		103/1	3	80/27	20
b. Weap requirements	ons/sor s shown	ties opera above:	tiona	lly requi	red (o achie	ve "0\	er 'arget"	21
		161/14		144/16		126/2	1	98/33	23
c. In cre required cve		chieve the	dama	age level	of 7	0%, we	apons	/sorties	24 25
		250#		500#		750#		1000#	
WEAPON		SNAKEYE	or	BOMB	or	ВОМ	B or	BOMB	
Area A		445/38		398/45		347/5	8	270/90	26
d. Weaj requirement	ons/so	rties opera	ationa	ally requ	ired	to achie	eve "o	ver targe:"	27 28
-		543/46		485/54	,	423/	71	329/110	29
15. PROBA	BILITY	OF ACHIE	VINC	DESIRE	D D	AMAGE	LEV	EL: 50%.	. 30



A-C-BFh-3

Tab BFh to Annex C to Appendix A

(Revised by 10th Note to Holders)





1. TARGET NUMBER: 52	1
2. <u>BE NUMBER:</u> 617-0044	2
. 3. IDENTIFICATION: Vinh HQ MR IV, Army Bks and Supply Depot East	3
4. DATE OF INFORMATION: 16 January 1966	4
DATE OF TIS: 11 May 1966	5
DATE OF PHOTOGRAPHY: 16 January 1966	6
DATE OF INTELLIGENCE REVIEW: 18 March 1966	7
5. LOCATION: 18-39-50N 105-41-56E, UTM WF 733636, along Route 1 on SE outskirts of Vinh.	8 9
6. DESCRIPTION: This target consists of a group of associated buildings	10
	11
	12
buildings and 13 storage/support buildings. Present capacities are estimated	13
	14
7. SIGNIFICANCE: This installation is a major supply/support element	15
in the Vinh military complex, a major military center in southern North	16
Victnam and site of the headquarters for Military Region IV. This may be	17
the major supply base for the 325th Infantry Division and Viet Cong support	18
in South Vietnam. In addition, the 341st Infantry Division (Coastal Defense).	19
the 271st and possibly the 269th Independent Infantry Regiments are located	20
in the vicinity of Vinh. Vinh is also a communications center of prime	21
importance, not only for MR IV but also for the command and control of	22
PL/VC operations.	23
8. TARGET ENVIRONMENT: Target is located on the coastal plain on	24
the eastern edge of the city of Vinh. This area is heavily populated and	25
adjacent areas are heavily cultivated. Target area is bordered on the NW	26
and SE by populated areas and on the SW and NE by cultivated fields.	27
9. <u>DEFENSE ENVIRONMENT:</u>	28
a. No SAM sites have been confirmed within 60 nm of Vinh; however,	29
there is atrong evidence of the presence of at least one SA-2 battalion in	30
this area. There have been numerous aircrew reports of Fan Song lock-	31
ons in the coastal area between Vinh and Dong Hoi and 3 aircraft have	32
been lost, possibly to SAMs, in the Vinh area since 25 February. It is	33
probable that the suspect unit is a skeleton battalion (possibly operating	34
with as few as two or three launchers) moving from one unprepared site	35
to another on a "shoot and run" basis.	36
b. Vinh is the center of an extensive AAA network which includes 25	37
active 37mm sites, (93 occupied/15 unoccupied positions) 13 active 57mm/	38
85mm sites. (78 occupied/20 unoccupied positions) and 3 active HMG sites	39
(9 occupied positions). In addition, there are 56 inactive 37mm sites	40
(260 positions) 35 inactive 57mm/85mm sites (266 positions) and 25	41
inactive HMG sites (102 positions). Five inactive sites are immediately	42
to the east and north of the target.	43



A-C-BG-2

Tab BG to Annex C to Appendix A

(Revised by 7th Note to Holders)

TOP :	RET								
stat	e Smal ioned in			fire may b	e provide	d by tac	tical unit	н	1 2
10.	DAMAC	E OBJ	ECTIVE	Destruction	n of stor	ed mate	rials Da	aniage	3
	n is stru	ctural	damage to	o storage b	uildings	This w			4
by dama	ige to co	ntents.	Damage	level is 30) percent	•			5
11. PL/VC.		T ON N	VN: Imn	nediate effe	ect on the	logistic	al suppor	rt to the	′, 7
12.				pot operat		•	•		8
		•		n 24-48 hou				• *	9
				(civilian an epairs, an		•	• • • • • • • • • • • • • • • • • • • •		10 11
				ent civiliai					12
immedi	ate depo	t arca t	o provide	replaceme	ent floor	space al	though lo	ading	13
				oe hampere					14
				ity of repla					15 16
			* .	ources of s dition of co					17
				enishment					18
to over	all inflic	tion of a	damage.	If supplies	require	d are av	ailable el	sewhere	19
				hina and tr	•	•	•		20
виррые	s could b	robably	be repla	iced in no t	nore that	n an esti	mated 5-	lu days.	21
13.	COLLA	TERAI	DAMAG	E.					22
	a. Insi	ignifica	nt						23
•	b.	Popula	tion	•		Casual	ties#		24
	Target	Arca	Adjace	nt Arca	Targe	t Area	Adjace	nt Area	25
	Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	26,
	3600	O	0	500	216	0	0	5 .	27
	*Casua	lties es	itimated i	under dayli	ght alert	conditio	ons.		28
14.	RECON	MEND	ED WEA	PONS AND	SORTIES	<u>s</u>			29
	egen e		A !			Waana		ina	30
h				orised of 4 h area. To					30 31
ach	ieve the	damare	level pr	escribed,	total wee	pons/so	rties rea	ured	32
			also sho			•			33
				ieve a dam	age level	of 30%,	weapons	/sortics	34 35
			target:	•	-		•		35



TOP CRET					
WEAPON:	250# SNAKEYE •	250# 11 BOMB or	5007 BOMB or	SO# BOMB	
Area A (550x1500)	90/B	11379	77/9	4978	ı
Area B (450x950)	50/4	67/6	46/5	2975	2
Area C (500x650)	73/6	96/8	49/5	2975	3 -
Area D (250x750)	45/4	78/7	40/4	24/4	4
Totals	258/22	354/30	212/23	13:/22	5
(2) We target!' rec	apons/sortics (operationally requi n above	red to achieve	over	6 7
	315/26	432/36	259/29	160/27	8
	order to achiev	e a damage level (of 70%, weapor	in/nortich	" 10
WEAPON	250# Snakeye	250# or BOMB or	500H BOMB or	750# BOMB	
Area A	304/25	382/32	260/29	166/28	11
Area B	169/14	226/19	156/17	98/16	12
Area C	246/21	324/27	166/18	98/16	13
Area D	152/13	263/22	135/15	81/14	14
Totals	871/73	1195/100	717/79	443/~4	15
(4) W target'' re	capons/sortics cquirement show	operationally requ wn above	aired to achiev	e "oser	16
	1062/89	1457/121	874/97	540/90	17
15. PROBAB	LITY OF ACHI	EVING DESIRED I	DAMAGE LEV	EL: 50%	18



A-C-BG-4

Tab BG to Ammex C to Appendix A

TAB BH TO ANNEX C TO APPENDIX A

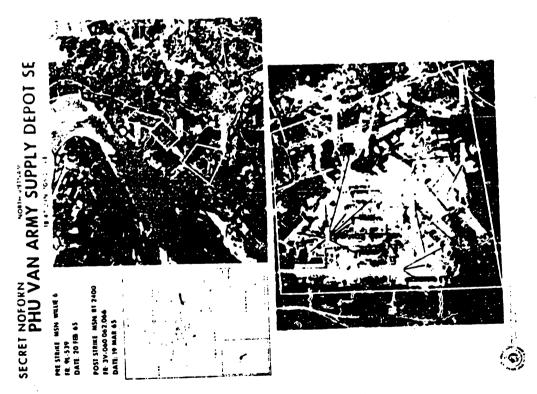


589



TAB BH TO ANNEX C TO APPENDIX A TARGET NO. 53





TOP STERET (Revised 31 August 1965)

A-C-BK-la

Tab BR to Annex C to Appendix A

1. TARGET NUMBER: 53	1
2. <u>BE NUMBER</u> : 0517-00122	2
3. IDENTIFICATION: Phu Van Army Supply Depot SE Du Luen	3
4. DATE OF INFORMATION: 3 March 1965 DATE OF TIS: 20 December 1965	4 5
5. LOCATION: 18-47-00N 105-20-16E; UTM 480 WF 352767 approximately 1 NM SW of Trung Phu Ha, 6.5 NM S of Vinh Son, North Vietnam).	6 7 8
6. DESCRIPTION: Two adjacent secured (single security fence) storage sites (A and B) on the east bank of the Song Ca River. Area A contains nine warehouses and four support buildings. Just to the south, Area B contains 17 storage/ support buildings. The eastern edge of Area B contains 2 T-shaped buildings, one of which is a probable administration building. Directly south of Area B, 1/4 NM, a large billetting area is located, containing 15 barracks and 5 storage/support buildings. Between, and immediately to the west, of target areas A and B are approximately 12 additional storage/support type buildings.	9 10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: Depot is part of a large military complex in the Vinh Son area serving the 324th Inf Bi2., (1 Jan 1955) and located south of Route 7 between Routes 7 and 8, hoth of which are main avenues for North Vietnamese support for operations in Laos.	20 21 23 24
8. TARGET ENVIRONMENT: Threet is located in the generally flat lowland bordering the Song Ca River. Surrounding area contains numerous blocks of cultivated fields interspersed with scattered civilian settlements. Two civilian settlements are located immediately north and south of the supply depot. A third settlement is adjacent to the southeast border of the depot.	25 26 27 28 29 30 31
9. DEFENSE ENVIRONMENT:	32
a. AAA defenses include 2 active 57/85mm sites (10 positions occupied, 2 positions unoccupied) 4½ NM northnorthwest, an inactive 8-position site 3 NM north-northwest (DOI: 20 Feb 65), and an inactive 4-position site 5 3/4 NM north of the target. (DOI: 23 Nov 64).	37
b. Trench networks are evident near barracks areas to south of target. The 324th Infantry Brigade, located in several camps in this general area, is estimated to have a strength of 5000.	38 39 40 41
c. The target is located approximately equidistant (20 NM) from radars at Cua Lo, Vinh, and Kim Cuong.	42 43



A-C-BH-2

Tab BH to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

TOP LCRET

Damage cri This will is 30 perc	terion is str be accompanie ent. CT ON DRV: W	uctural dan ed by damag	nage to sto e to conter support to	red materials. brage buildings. bts. Damage level	1234 56		
the 324th supplies.	Inf Bde in pr	roportion t	o the crit:	icality of stored	7		
12. RECUPERABILITY: Depot operations could probably be resumed within 12-24 hours after infliction of damage utilizing locally available labor (civilian and/or military) for clearing 1 debris, effecting emergency/expedient repairs, and performing 1 limited operational duties of personnel lost. Sufficient civilian buildings are available in the immediate area of this 1 depot to provide at least emergency cover for critical supply 1 items on an immediate basis. Additional civilian buildings in 1 the general depot area sufficient to replace storage areas damaged could be appropriated and become operational within an estimated 3-5 days, however, loading and unloading operations in these areas would be somewhat hampered. Replacement of supplies lost is dependent upon: a. Availability of replacement supplies elsewhere in the country. b. Status of original sources of supplies, whether North Vietnamese of Communist Chinese. c. Condition of communications network servicing the depot area. d. National replenishment priorities established in response to overall infliction of damage.							
If supplies required are available elsewhere in North Vietnam or southern China and transport and priorities permit, supplies could probably be replaced in no more than an estimated 3-5 days.							
estimated	3-5 days.				29		
	3-5 days. LATERAL DAMAC			·	30 30		
13. <u>col</u>	3-5 days.	E: Insign	ificant.				
13. COL 14. REC a. areas. area. level	3-5 days. LATERAL DAMAC OMMENDED WEAT This is a lan Weapons and	PONS AND SO rge target i sorties h effort req total weapo	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the	30		
13. COL 14. REC a. areas. area. level target	3-5 days. LATERAL DAMAC OMMENDED WEAT This is a lan Weapons and To show the prescribed, is also show	PONS AND SO rge target i sorties h effort req total weapo	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the	30 31 32		
13. COL 14. REC a. areas. area. level target	3-5 days. LATERAL DAMAC OMMENDED WEAD This is a lan Weapons and To show the prescribed, is also show	PONS AND SO rge target is sorties heffort required to achieve required to 250%	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the level of 30%:	30 31 32 33 33 35 36		
13. COL 14. REC a. areas. area. level target	3-5 days. LATERAL DAMAC OMMENDED WEAD This is a lan Weapons and To show the prescribed, is also show (1) In order upons/sorties	PONS AND SO rge target is sorties heffort required to achieve required to 250%	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the level of 30%:	30 31 32 33 33 35 36		
13. COL 14. REC a. areas. area. level target wes Weapon:	3-5 days. LATERAL DAMAC OMMENDED WEAD This is a lan Weapons and To show the prescribed, is also show (1) In order pons/sorties 250# SNAKEYE or	PONS AND SO rge target is sorties h effort req total weapo wn. to achieve required of 250# BOMB or	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the level of 30%:	30 31 32 33 34 35 36 37 38		
13. COL 14. REC a. areas. area. level target wes Weapon: Area A	3-5 days. LATERAL DAMACOMMENDED WEAD This is a language with the prescribed, is also show the prescribed shows the prescribed show the prescribed show the prescribed shows the prescribed show the prescribed shows the prescribed show the prescribed show the prescribed shows the prescribed show the prescribed show the prescribed show the prescribed shows the prescribed show the prescribed shows the prescribed show the prescribed show the prescribed shows the prescribed	PONS AND SO rege target is sorties he effort required to achieve required to 250% BOMB or 93/8	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the level of 30%: 750# BOMB 28/5	30 31 32 333 34 35 36 37 38		
13. COL 14. REC a. areas. area. level target wes Weapon: Area A Area B	3-5 days. LATERAL DAMAC OMMENDED WEAD This is a lan Weapons and To show the prescribed, is also show (1) In order pons/sorties 250# SNAKEYE or 54/5 108/9	PONS AND SO rge target i sorties h effort req total weapo wm. to achieve required of 250# BOMB or 93/8 126/11	ificant. RTIES: complex comp	mprised of three omputed for each chieve the damage required over the level of 30%: 750# BOMB 28/5 38/6	30 31 32 333 35 36 37 38		
13. COL 14. REC a. areas. area. level target wes Weapon: Area A Area B Area C TOTALS:	3-5 days. LATERAL DAMAC OMMENDED WEAD This is a lan Weapons and To show the prescribed, is also show the prescribed and the pre	PONS AND SO rge target is sorties h effort req total weapo wm. to achieve required or 93/8 126/11 83/7 302/26	ificant. RTIES: complex converted to a ns/sorties a damage over target 500# BOMB or 48/5 65/7 42/5 155/17 erationall	mprised of three omputed for each chieve the damage required over the level of 30%: 750# BOMB 28/5 38/6 25/4 91/15 y required to achieve	30 31 32 333 35 36 37 38 39 40 41 42		



A-C-AH-3

Tab TH to Annex C to Appendix A

We	(3) In or apona/sort	der to achiev ies required	e a damage over targe	e level of 70% et:	1
Weapon:	250# Snakeye	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A	182/15	312/26	160/18	95/16	3
Area B	364/30	425/35	218/24	128/21	4
Area C	202/17	280/23	142/16	84/14	5
TOTALS:	748/62	1017/84	520/58	307/51	6
"((4) Weapo over target	ns/sorties on requirement	perationali t shown abo	ly required to achieve ove:	8
	910/76	1240/102	634/71	374/62	9
15. PROP	ARILTTY OF	ACHTEVING DA	MAGE LEVET	. FOR	10

A-C-EH-4 Tab BH to
Annex C to
Appendix A

(Revised by 7th Note to Holders)



594

RV.2

1. TARGET NUMBER: 54	1
2. <u>BE NUMBER</u> : 617-0204	2
3. IDENTIFICATION: Thien Linh Dong Army Supply Depot Sou	ith 3
4. DATE OF INFORMATION: 19 February 1965 DATE OF TIS: 29 April 1965 DATE OF PHOTOGRAPHY: 19 February 1965 DATE OF INTELLIGENCE REVIEW: 11 March 1965	4 5% 7
5. LOCATION: 19-43-00N 105-42-50E, UTM 48Q WG 749501 1 NM SSW of Thien Linh Dong, 1500 ft east of the rail line rom Thanh Hoa to Vinh, 7 NM SW of Thanh Hoa).	8 10
6. DESCRIPTION: This installation is oriented NW-SE clong the west bank of the Vi Giang River and consists of three areas. Area A comprises the barracks and support are and contains 3 barracks, 1 probable mess hall and 1 support outlding. Estimated troop capacity is 273. Area E is an insecured area containing a probable meter pool with 3 associated buildings. 1 support building and 2 storage structures. Area C is fence-secured and contains 3 triple-bay and 4 single-bay warehouses. 1 administration building, 3 support buildings and 1 building of unknown function. An additional small support building is located in the northest corner of the area but outside the target complex.	16 16 17 19 20 st 21
7. SIGNIFICANCE: This depot is adjacent to the only nor south rall line and is capable of provising logistic support to MR Right Bank and to MR IV to the south.	th:- 73
8. TARGET ENVIRONMENT: The depot is located in fairly that terrain with many streams in the area. There are small villages in all directions from the depot and the land is heavily cultivated. In the area around Thank Hoa to the north are elements of the 330th Infantry Private and an emidentified transportation group.	11 17 11 12 12 12 12 12 12 12 12 12 12 12 12
). DEFENSE ENVIRONMENT:	3 ?
a. No AAA has been identified at the target location although 2 occupied 3-gun AW (prob 12.7mm) sites appear in photography of 19 February 1965. Neurest known AAA sites are associated with the area defense of Thanh How which city is located approximately 6 3/4 NM northeast the target. Thanh How defenses include 7 active and 1 inactive sites, amounting to 27 light (14.5mm-37mm) occupied and 5 positions (4 "light" and 1 "57/85") unoccupied.	35
b. In addition to troop capacity at the target installation (para 6), the 269th Independent Infantry Regiment and 57th Infantry Regiment of the 304 Division are located nearby at Thanh Hoa. Additionally, the 466 Coastal Security Battalion is located at Sam Son, where 3 occupied HMG (12.7mm) positions have been identified.	46
c. Within 5 NM of Thanh Hoa (1948N/10547E) are 2 rad a RUS-2 and a SCR-270. At My Duc, 10 NM northeast of Hoa, there is a CROSS SLOT radar.	iars, 48 Thanh 49 53
TOP SCRET A-C-BI-2 Tab BI Annex C	

(Revised by 6th Note to Holders - 25 March 1966)



10. <u>DAMAC</u> muteriul ar	E OBJECTIV						stored	2
11. EFFECT ON DRV: Could have immediate effect on logistic support to military regions IV and Right Bank.								3
12. RECUPERABILITY: With about 30% of destruction assumed, at least 4 days would be required to get back to near normal operations. Labor and materials are available in Thanh Hoa, but if general destruction in North Vietnam is assumed, it could take as long as 8 - 14 days to resume normal operations.							56789	
13. COLL	ATERAL DAMA	GE:	Light d	amag	to sur	cound:	lng area.	10
14. RECO	MMENDED WEA	PONS	AND SOR	TIES	•			11
areas. area. level p target	his is a la Weapons ar To show the rescribed, are also sh	nd son e effo total nown:	rties ha ort requ L weapor	ve b ired is/so	een compu to achie rties red	ited : eve t quire	for each he damage d over the	12 13 14 15 16
weap	l) In order ons/sortie	r to (s requ	achieve uired ov	a da ver t	mage leve arget:	el of	30%,	17 18
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB		750# BOMB	
Area A	23/2		44/4		22/3		13/2	13
Area B	14/2		42/4		21/2		12/2	20
Area C	89/7		109/9		55/6		32/5	21
Totals	126/11	-	195/17		98/11		57/9	22
ach	(2) Weapons ieve "over	/sort	ies ope t" requ	ratio iremo	nally reent shown	quire abov	ed to ve:	23 24
	154/13		238/21		119/13		70/11	25
wea	(3) In orde	er to	echieve quired o	a d	unage lev target:	vel o	f 70%,	26 27
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	78/7		149/12	2	75/8		44/7	ર જે
Area B	48/4		142/12	2	71/8		41/7	24
Area C	300/25		368/3	ı	186/21		108/18	30
Totals	426/36		659/5	5 .	332/37	•	193/32	31
aci	(4) Weapon nieve "over	s/sor targ	ties op et" req	erati uirem	onally r	equir m abo	ed to	32 33
	520/44		804/6		404/45		236/39	34
15. PR	OBABILITY C	F ACH	IEVING	DAMAC	E LEVEL	509	6	35



A-C-BI-3

Tab BI to Annex C to Appendix A



TARGET NO. 50



TOP ACRET (Ref Ised 31 August 1965)

A -C -B3-1

597

1. TARGET NUMBER: 55	ì
<u>BE NUMBER</u> : 617-0087	:
3. IDENTIFICATION: Vinh Son Army Supply Depot SW Do Lucke	3
4. DATE OF INFORMATION: 24 June 1965 DATE OF TIS: 20 December 1965 DATE OF PHOTOGRAPHY: 24 June 1965 DATE OF INTELLIGENCE REVIEW: 20 July 1965	h U
5. LOCATION: 18-53-40N 105-17-44E, UTM WF 312835	:
on the south bank of the Ca River. There are three target areas within the facility. Area A contains 1 storage building and 1 support structure. Two other support buildings have been dismantled. Area B contains 7 warehouses; storage capacity is estimated at approximately 70,200 square feet. Area C contains 2 possible bulk storage shelters (8,100 sq ft).	17 11 11 11 11 11 11 11 11 11 11 11 11 1
7. SIGNIFICANCE: Depot is part of a large military complex in the overall Vinh Son area serving the 324th Inf Bdc. (1 January 1965) and located south of Route 7 between Routes 7 and 8, both of which are main avenues for North Vietnamese support for operations in Laos.	17 18 19 20 21
6. TARGET ENVIRONMENT: Target is located in the generally flat lowland bordering the Song Ca River. Surrounding area contains numerous cultivated fields, dotted with stattered civilian settlements. Depot area is bounded on the north by a civilian settlement and on the south, east, and west by cultivated fields.	22 23 24 25 26 27
. DEFENCE ENVIRONMENT:	28
a. AAA defences within 4 NM radius of the target consist of 11 inactive sites (42 unoccupied 14.5mm/3/mm positions, 16 unoccupied 57mm/85mm positions and 15 unoccupied HMG positions). In addition, there is one active HMG site (6 occupied positions). (DOI: 11 - 26 May 1965)	29 30 31 32 33 34
b. Trenching evident in area. The 324th Infantry Brigade, located in several camps in this general area, is estimated to have a strength of 5000.	35 36 37
e. The target is located approximately equidistant (20 NM) from radars at Cua Lo, Vinh, and Kim Cuong.	38 39
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored materials. Damage criterion is structural damage to storage buildings, accompanied by damage to contents, and personnel casualties. Damage level is 30 per cent.	40 41 42 43
11. EFFECT ON NVN: Would limit support to the PL/VC and to the 324th Inf Ede in propertion to the criticality of stored supplies.	44 45 46

TOP CRET

A-C-BJ-2

Tan so to Annex C to Appendix w

(Revised by lith Note to Hollers)



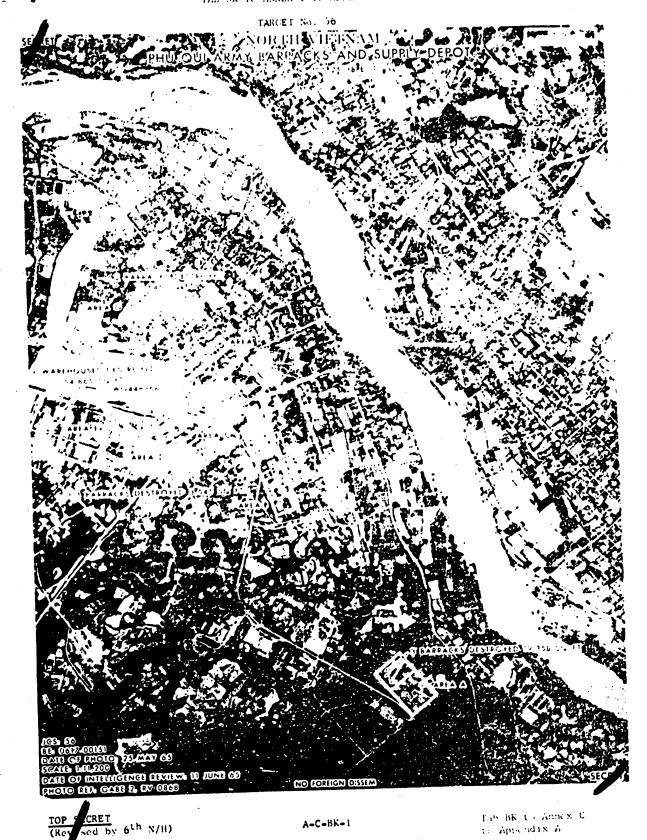
probably b damage. S the area o for salvag buildings storage ar	PERABILITY: c resumed wufficient of this depo ed or undam in the gene eas damaged estimated 5	ithin ivili t to aged ral d	72 hou an build provide critica epot ar could b	rs af dings at l l sup ea a	ter information are avecues. Least emply items of the second contract of the second contrac	lictic ailablergencems. Constant	n of e near y cover civilian replace	1 2 3 4 5 6 7 %
13. <u>COLI</u>	ATERAL DAMA	GE:	Insigni	fica	nt.			9
14. RECC	MMENDED WE	PONS	AND SOR	TIES	:			10
sorties	his target have been required to eapons/sor nown:	compu	ted for	eaci	h area. age leve	To si	now the scribed,	11 12 13 14 15
wear	(1) In order cons/sortie	r to a	achieve uired ov	a da ver t	mage lev arget:	vel of	30%,	16 17
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# <u>BOMB</u>		750# BOMB	
Area A	9/1		34/3		17/2		10/2	18
Area B	21/2		43/3		22/2		13/2	19
Area C	11/1		33/3		17/2		10/2	50
Totals	41/4		110/9		56/6		33/6	21
ach	(2) Wempons Leve "over	/sort targe	ies ope t" requ	ratio iremo	onally r ent show	equire n abov	ed to ve:	53 55
	50/4		134/11		68/8		40/7	24
wea	(3) In order	er to	achieve uired o	a de	mage le target:	evel of	r 70% ,	25 26
WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOME	
Area A	30/3		113/9		57/6		34/6	5.1
Area B	70/6		143/12	2	73/8		44/7	ટ ઇ
Area C	37/3.		110/9		57/6		34/6	53
Totals	137/12		366/30)	187/2	0	112/19	30
aci	(4) Weapon hieve "over	s/sor targ	ties op et" req	erati uirem	onally ent sho	requir wn abo	ed to	31 32
	167/14		446/3	7	228/2	25	137/23	33
15. <u>PR</u>	OBABILITY C	F ACH	IEVING	DESI	RED DAMA	GE LE	<u>/EL</u> : 50%	34



A-C-BJ-3

Tab EJ to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)



600



1. TARGET NUMBER: 56	ľ
:. <u>BE NUMBER</u> : 617-0151	; •
3. IDENTIFICATION: Phu Qui Army Barracks and Supply Depot	3
4. DATE OF INFORMATION: 11 June 1965 DATE OF TIS: 16 June 1965 DATE OF PHOTOGRAPHY: 25 May 1965 DATE OF INTELLIGENCE REVIEW: 11 June 1965	45.7
5. LOCATION: 19-19-28N 105-25-38E, UTM WG 448368. On W side of Song Hicu (river) at Phu Qui (Nghia Hung) 14.5 HM NW of railroad 15.5 NM NW of Route 1, and 20 NM NW of port facility at Thanh Dam.	9 9 10 11
6. DESCRIPTION: This installation comprises 12 groups of barracks and storage areas spread over 300 acres. There are 62 warehouse/storage-type structures with storage space of 182,251 sq ft. This installation incorporates a training area and there are numerous trenches and foxholes.	12 13 14 15 16
7. SIGNIFICANCE: Appears to be part of an important storage complex comprising POL storage and ammo storage in addition to this target. Important storage area for support to Viet Cong and PAVN troops in the south.	17 18 19 20
8. TARGET ENVIRONMENT: The target is located on the W bank of the Song Hieu in a broad alluvial valley. The area is generally cultivated and is interspensed with low wooded hills rising to 600 ft above the plain. Buildings of the town of Phu Qui are adjacent to the target.	21 22 23 24 25
9. DEFENSE ENVIRONMENT:	26
a. Within 4 NM of target are 3 active light (14.5mm-37mm) AAA sites containing 8 occupied and 4 possible occupied positions. About 5 NM SE is an unoccupied 57mm/85mm site of 6 positions. Six unoccupied coastal defense gun positions and a supporting trench network is at Cap Falaise, 21 NM SE. An FC radar is also here.	27 28 29 30 31
b. Within 22 NM SE are 3 EW radars and there are 3 others probably within 30 NM SW.	33 31



A-C-BK-2

Tab BK to Annex C to Appendix A

(Revised by 7th Note to Holders)



	<u> </u>							
c. No AAA positions have been located immediately adjacent to the target but heavy small arms and AW fire can be anticipated from troops in the area (approximately 3000). Many trenches and foxholes have been prepared.								
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored materials. Damage criterion is structural damage to buildings and accompanying damage to supplies. Damage level is 30 per cent.								
11. EFFECT ON DRV: Immediate effect on logistical support to the VC and PAVN troops in the south.								
12. RECUPERABILITY: Limited supply operations could probably resume functioning within 24 to 48 hours. Replacement of stores would require 3 to 5 days, depending upon priorities. Displaced troops could be housed in nearby civilian settlements or under canvas since there is ample space for field billeting.								
13. <u>co</u>	LLATERAL DAMA	GE: Light dama	ge to surrour	ding area.	16			
		PONS AND SORTIE			17			
This is a large target complex comprised of seven areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:								
we	(1) In orderapons/sortie	r to achieve a d s required over	lamage level target:	•	23 24			
WEAPON:	250# SNAKEYE	250# or <u>BOMB</u> or	500# <u>BOMB</u> or	750# <u>BOMB</u>				
Arca A	43/4	62,/6	32/4	19/4	25			
Area B	55/5	87/8	45/5	27/5	26			
Area C	55/5	87/8	45/5	27/5	27			
Area D	141/4	67/6	34/4	20/4	23			
Area E	46/4	67/6	34/4	20/4	29			
Area F	29/3	67/6	35/4	21/4	30			
Area G	33/3	55/5	28/4	17/3	37			
Totals	305/28	492/45	253/30	151/29	38			
	(0) !!	s/sorties operat target" require	tionally requ ement shown a	ired to	33 34			
•	372/31	902/101	309/35	185/31	35			
	(2) In ord	er to achieve a es required ove	damage leve:	l of 70%,	36 37			

TOP ECRET

A-C-BK-3

Tab BK to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

WEAPON:	250# Snakeye	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Arca A	145/13	209/18	108/12	64/11	1
Area B	185/16	293/25	152/17	91/16	2
Area C	185/16	293/25	152/17	91/16	3
Area D	148/13	226/19	115/13	68/12	4
Area E	155/13	226/19	115/13	68/12	5
Area F	98/9	226/19	118/14	71/12	6
Area G	111/10	185/16	95/11	58/10	7
Totals	1027/90	1658/141	855/97	511/89	S
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:					
	1253/105	2022/169	1043/116	624/104	11
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%					

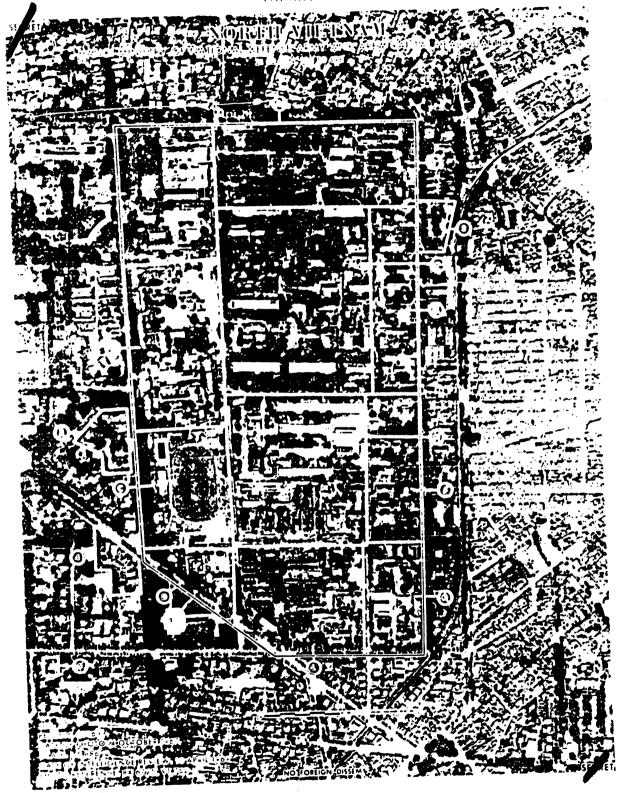
TOP ECRET

A-C-BK-4

Tab BK to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

TARGET NO. 57



V-C-34. 1

Lab P.L. To Annex C. La Appendix V

1. TARGET NUMBER: 57	1
	2
17 International Control of the Cont	3
5. IDENTIFICATION: Ha Not Ministry of National Defense Army and Area Capital Hqs.	4
20 24 1069	5
DATE OF INFORMATION: 30 May 1969	6
DATE OF TIS: 11 February 1970 DATE OF PHOTOGRAPHY: 4 October 1967	7
DATE OF INTELLIGENCE REVIEW: 10 April 1969	8
5. LOCATION: 21-02-00N 105-50-49E, 1000 yards N of the Ha Noi RR station.	9
150 ages walled area approximately rectangular	10
6. DESCRIPTION: Target forms a 150 acre wanted are specified, and support shape and containing some 320 barracks, administration, storage, and support shape and containing some 320 barracks, administration, storage, and support	
m shape and containing some 320 barracks, administration, belong 2 theaters, and mildings. The facilities include an athletic field, swimming pool, 2 theaters, and mildings.	12
mildings. The facilities include an atment field, but is estimated at 9,600.	13
nultical and logistical controls of	14
7. SIGNIFICANCE: The top level operational, political and logistical controls of NVN detense establishment were concentrated in this target area. More recent	15
NVN detense establishment were concentrated in this target housekeeping units cormation indicates that all headquarter elements except a few housekeeping units	16
Cormation indicates that all headquarter elements	17
tave been dispersed to other areas.	18
8. TARGET ENVIRONMENT: Target is located within the heavily built-up area	19
8. FARGET ENVIRONMENT: Target is located within the first populated areas the NVN capital city of Ba Not, surrounded by high density civilian populated areas.	20
the NVN capital city of Ha Nor, surrounded by high density that have the NVN capital city of Ha Nor, surrounded by high density that have the Nor railroad station is approximately well as other mulitary installations. The Ha Nor railroad station is approximately well as other mulitary installations. The Ha Nor railroad station is approximately well as other mulitary installations.	21
well as other military installations. The Ha Rot Fairfold State Bac Mai Airfield. 000 yards S. 2000 yards E is the Red River, and 1360 yards S is Bac Mai Airfield.	22
Contraction of Poland (3). Community China (4)	23
the W and SW of the target area.	
\cdot	24
0. DEFENSE ENVIRONMENT:	25
a. The target is within the SAM envelope.	
b. AAA activity has been identified within 3 NM of the target.	26
. HMG and small arms fire is anticipated.	27
and singularity on support buildings and	28
10. DAMAGE OBJECTIVE: Destruction of administration, support buildings and	29
10. DAMAGE OBJECTIVE: Destruction of administration, supported including particles with resultant destruction of headquarters functions and facilities including particles with resultant destruction of headquarters functions and facilities including the particles of the particle	30
communications equipment and loss of personner.	31
Danage level is 10%.	
(a) a reget would impair command and con-	32
and direction of motions	33
that these functions are exercised at this location.	34
\cdot	

SEC ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BL-2

(Revised by 17th Note to Holders)

Tab BL to Annex C to Appendix A

SE RET

12. RECUPERABILITY: Operational functions related to this target could probably resume on an extremely limited basis within 6-8 hours. Physical recuperability on a makeshift basis might be restored in 7-10 days. Losses of key personnel, if achieved, would take an indefinite time to replace.

13. COLLATERAL DAMAGE:

a. Light damage to surrounding area.

b.	Popi	ılation		Casualties*				7
Targe	(Area	Adjacent	Area	. Targe	t Area	Adjacen	t Area	8
Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	9
5000	0	1000	2500	300	0	10	25	10

*Casualties estimated under daylight slert conditions.

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 11 areas. Nine areas have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

WEAPONS	250# SNAKEYE or	500# SNAKEYE or	500# BOMB	or	750# BOMB	19 20 •
Area A (870'x545')	73/6	40/4	51/6	•	27/5	21
Area B (1070' x 485')	78/7	43/5	56/6		30/5	22
Area F. (1280' x490')	•	51/6	66/7		35/6	23
Area F (1110' x 940')		82/9	94/10		50/8	24
Area G (1230' x 285')		30/3	49/5		26/4	25
Area H (925' x 885')	•	66/7	77/9		41/7	26
Area J (695' x 310')	36/3	20/2	32/4		17/3	27
Area K (710' x 340')	40/3	22/2	33/4		18/3	28
Area L (805' x 635')	78/7	43/5	53/6		28/5	29
TOTALS	723/62	397/43	511/57		272/46	30
	ortics required	to achieve "ove	r target" 1	require	ements shown	31 · 32 ·

SEC LET

TOTALS

above:

A-C-BL-3 (Revised by 17th Note to Holders)

476/52

868/74

Tab BL to Annex C to Appendix A

326/55

613/68

2

11

12

13

14

15 16

> 17 18

> > 33

SE RET

WEAPON	250# SNAKEYE	500# SNAKEYE	500# BOMB	750# BOMB	4
Area A	244/20	134/15	170/19	90/15	5
Area B	252/22	143/16	188/21	100/17	6
Area E	310/26	170/19	221/25	117/20	7
Area F	504/42	276/31	316/25	168/28	8
Area G	184/15	101/11	164/18	87/15	9
	406/34	223/25	258/29	137/23	10
Area H	122/10	67/7	106/12	56/9	11
Area J	135/11	74/8	112/12	59/10	12
Area K		mic pecipen i	DAMAGE LEVE	:1.: 50%	1 3

SECKET

A-C-BL-4

(Revised by 17th Note to Holders)

Tab BL to Annex C to Appendix A



TAB BM TO ANNEX C TO APPENDIX A

TARGET NO. 59





TARGET INFORMATION AND STIKE DATA

1. TARGET NUMBER: 58	l
2. BE NUMBER: 616-0299	2
3. IDENTIFICATION: Ha Noi Army Supply Depot S Quinh Loi	3
DATE OF PHOTOGRAPHY: 27 January 1965	4 5 6 7
5. LOCATION: 20-59-48N 105-51-33E, UTM WJ 893223, 1.3 NM E of Ha Noi. Bac Mai Airfield, approximately 2 NM S of Ha Noi.	8 9
6. DESCRIPTION: This target comprises 6 major storage which are widely dispersed. These areas contain an aggregate of approximately 170 warehouses/storage structures having an estimated approximately 170 about 700,000 square feet. Approximately 145 approach additional restriction and support buildings are in the immediate	
and is of particular significance due to its proximity to Ha Noi and the Ha Noi/Bac Mai Airfield. No specific military unit has been identified with this installation; however, the general Ha been identified with this installation; however, the general Ha	17 18 19 20 21 22
8. TARGET ENVIRONMENT: This target is located in the flat in- tensively cultivated Red River Delta region and is on the outskirts	23 24 23 26 27
9. DEFENSE ENVIRONMENT:	28
a. Eighteen SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 22 additional SAM sites have been identified 18-30 NM distant.	29 30 31
b. Identified AAA activity within 3 NM of the target includes 14 active AAA sites, consisting of 65 occupied 57mm/85mm revetments and 15 occupied 37mm revetments. There are 9 inactive sites in the immediate area and a total of 71 active sites in the entire Ha Noi complex. (DOI: 4 July 1965 - 2 July 1966).	32 33 34 35 36
c. Moderate to intense HMG and small arms fire is anticipated throughout the Ha Noi area.	37 38



A-C-BM-2

Tab BM to Annex C to Appendix A



age cri	terion	is str	uctural	Destruction L damage to Lties and lo	storage b	uildi	ngs with	Dam- ac- Dam-	1 2 3 4
area ar	ry redu	ction	of suppose	% destruct port to mil- ignificant o orth Vietna	itary ele covered an	ments d sec	in the H	a Noi	5 6 7 8
resume operations within 12 hours after damage, assuming field bil- leting is used and buildings in adjacent civilian areas are appro- leting is used and buildings in adjacent civilian areas are appro- leting up to operations could probably be resumed within 24 hoursly using available military and civilian labor for clearing debris, asetting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up temporary canvas cover and performing operational duties letting up								9 10 11 12 13 14 15 16 17 18 19 20 21	
13.	COLLATI	ERAL D	MAGE:						22
	a. Mod	ierate	damage	to surroun	ding area				23
	b.	Pop	ulation				Casualtic	e s *	24
	Target	Area	Adjace	nt Area	Target	Area	Adjacent	t .Area	25
	Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	26
	1200	0	3800	10,000	72	0	168	400	27
	*Casua	lties	estimat	ed under da	ylight al	ert co	onditions	•	28
14.	RECOMM	ENDED	WEAPONS	AND SORTIE	<u>s:</u>				29
This is a large storage complex comprised of six areas. Five areas (with 5 sub-areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required to achieve "over target" requirement are also shown:									33
	sorties	requi	red ove	achieve a cortarget:	mw2a ras	· ·	TON, HEL	pous,	37



A-C-BM-3

Tab BM to Annex C to Appendix A



WEAPON	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A (250x400)	29/2	52/4	27/3	16/3	1
Area B-1 (100x350) 14/1	43/4	22/2	13/2	2
Area B-2 (210x360	23/2	47/4	24/3	14/2	3
Area B-3 (250x360	27/2	49/4	25/3	15/3	4
Area C-1 (320x550) 43/4	67/6	35/4	21/3	5
Area C-2 (550x650	80/7	102/8	53/6	31/5	6
Area E (130x150)	13/1	35/3	18/2	11/2	7
Area F (300x400)	33/3	55/5	28/3	17/3	8
Totals	262/22	450/38	232/26	138/23	9
(2) Wes	apons/sorties o et" requirement	perationally shown above	required to	achieve	10 11
	320/27	549/46	283/32	168/28	12
(3) In sorties r	order to achie	ve a damage rget:	level of 70%	, weapons/	13 14
WEAPON	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
WEAPON Area A				•	15
	SNAKEYE or	BOMB or	BOMB or	вомв	15 16
Area A	SNAKEYE or 98/8	BOMB or 175/15	BOMB or 91/10	BOMB 54/9	
Area A Area B-1	SNAKEYE or 98/8 48/4	BOMB or 175/15 145/12	91/10 74/8	BOMB 54/9 44/7	16
Area A Area B-1 Area B-2	98/8 48/4 78/7	BOMB or 175/15 145/12 158/13	91/10 74/8 81/9	BOMB 54/9 44/7 48/8	16 17
Area A Area B-1 Area B-2 Area B-3	98/8 48/4 78/7 91/8	BOMB or 175/15 145/12 158/13 165/14	91/10 74/8 81/9 85/9	54/9 44/7 48/8 51/8	16 17 18
Area A Area B-1 Area B-2 Area B-3 Area C-1	98/8 48/4 78/7 91/8 145/12	BOMB or 175/15 145/12 158/13 165/14 226/19	91/10 74/8 81/9 85/9 118/13	BOMB 54/9 44/7 48/8 51/8 71/12	16 17 18 19
Area A Area B-1 Area B-2 Area B-3 Area C-1 Area C-2	98/8 48/4 78/7 91/8 145/12 270/22	BOMB or 175/15 145/12 158/13 165/14 226/19 344/29	91/10 74/8 81/9 85/9 118/13 179/20	BOMB 54/9 44/7 48/8 51/8 71/12 105/18	16 17 18 19 20
Area A Area B-1 Area B-2 Area B-3 Area C-1 Area C-2 Area E	98/8 48/4 78/7 91/8 145/12 270/22 44/4	BOMB or 175/15 145/12 158/13 165/14 226/19 344/29 118/10	91/10 74/8 81/9 85/9 118/13 179/20 61/7	54/9 44/7 48/8 51/8 71/12 105/18 37/6	16 17 18 19 20 21
Area A Area B-1 Area B-2 Area B-3 Area C-1 Area C-2 Area E Area F Totals	98/8 48/4 78/7 91/8 145/12 270/22 44/4 111/9	BOMB or 175/15 145/12 158/13 165/14 226/19 344/29 118/10 185/15 1516/127 operationall	BOMB or 91/10 74/8 81/9 85/9 118/13 179/20 61/7 95/11 784/87	BOMB 54/9 44/7 48/8 51/8 71/12 105/18 37/6 58/10 468/78	16 17 18 19 20 21
Area A Area B-1 Area B-2 Area B-3 Area C-1 Area C-2 Area E Area F Totals	98/8 48/4 78/7 91/8 145/12 270/22 44/4 111/9 885/74	BOMB or 175/15 145/12 158/13 165/14 226/19 344/29 118/10 185/15 1516/127 operationall	BOMB or 91/10 74/8 81/9 85/9 118/13 179/20 61/7 95/11 784/87	BOMB 54/9 44/7 48/8 51/8 71/12 105/18 37/6 58/10 468/78	16 17 18 19 20 21 22 23



A-C-BM-4

Tab EM to Annex C to Appendix A



TAB BO TO ANNEX C TO APPENDIX A

TARGET NO. 60



TOP STRET
(Revised by 9th M/H)

Tab BO to Annex C to Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 60	1
2. <u>BE NUMBER</u> : 616-0210	2
3. IDENTIFICATION: Thai Nguyen Army Supply Depot North	3
4. DATE OF INFORMATION: 14 July 1966	4
DATE OF TIS: 23 July 1966	5
DATE OF PHOTOGRAPHY: 3 March 1966	6
DATE OF INTELLIGENCE REVIEW: 12 April 1966	7
5. LOCATION: 21-38-25N 105-50-55E, UTM WJ 879929	8
6. DESCRIPTION: This depot is a walled storage area containing 36	9
regularly spaced warehouses with an estimated storage capacity of 390,000	10
square feet. In addition there are several support-type buildings; an	11
administrative area comprising 2 buildings is near the entrance gate. A	12
motor pool is located in the SE corner of the installation. None of the	13
warehouses appear to have loading areas for trucks.	14
7. SIGNIFICANCE: Headquarters Military Region Viet Bac is located	15
at Thai Nguyen and Headquarters and elements of the 312th Infantry Division	16
are also believed to be in the area. This depot appears to be the largest	17
single supply depot in North Vietnam.	18
8. TARGET ENVIRONMENT: Depot is located in cultivated lowlands	19
of the Song Thuong. There are hills with a high ridge to the SW, a 650-foot	20
ridge line 2.5 NM ESE, a 1760 foot peak 10.5 NM ENE and a 4550 foot peak	21
15 NM SW. Farming villages populate the river valley and a steel mill is	22
located at Thai Nguyen.	23
9. DEFENSE ENVIRONMENT:	24
a. Seven SAM sites have been identified within SA-2 missile range	25
(17.5 NM) of the target, and 11 additional SAM sites have been identified	26
18-30 NM distant.	27
b. Identified AAA activity in the Thai Nguyen area includes 10 active	28
AAA sites consisting of 75 occupied 57mm/85mm revetments, 5 dummy	29
100mm reverments and 16 dummy 57mm/85mm reverments. In addition,	30
there are 7 inactive sites in the area. (DOI: 17 August 1965 - 5 May 196	6) 31
c. Intense HMG and small arms fire is anticipated from local militia	32
and security forces, as well as units of the 312th Infantry Division.	33
10. DAMAGE OBJECTIVE: Destruction of stored materials. Damage	34
criterion is structural damage to storage buildings with accompanying damage	ge 35
to stored materials. Damage level is 30 per cent.	36



A-C-B0-2

Tab BO to Annex C to Appendix A



•					• .			•			
11. 1	EFI	ECT C	NVN NC	De	struction	of	his targe	t woul	d result	in the loss	1.
of a lare	78 C	nantity	of mili	tarv	supplies	. re	duce the	NVN c	apabilit	A to sabbia	2 3
military	r un	its in t	he north	cen	tral part	of t	he counts	y and	have a c	leleterious	4
	pon	the ov	erall NV	/N ca	pability	to p	rovide su	pport	to the m	surgent	5
forces.											•
		cmppp	A 2011 TT	v. T	hi-tu se		nt destru	ction o	or dama	ge would	6
12.	KE '	CUPER	ABILLI	- 11	troops	nort	of Ha N	oi. an	d in par	icular, to	7
Militan	, R	egion H	leadoua	rters	Viet Ba	c. 7	The depot	Monro	, propas	ty be	8
		tonal f	a= 24 ha		and then	WOL	ld become	8 00%	operatio	ner.	9
Parkage at		1	1 <i>d</i>	nenhi	hlv reas	nire.	at least .	יכסזי	WEEKP, '	Te berraeme	10 11
UDOD AV	ails	ibility (of labor	forc	es. Rep	place	ment or	Testro	you sup;	lies would	12
be depe	nde	nt upor	type a	nd so	urce of	mate	rials sto	Led ve	re.		-
				A 3 4 A	CF.						13
13.	<u>CO</u>	LLATE	ERAL D	AMA	<u>ue</u> .						
	a.	Insign	ificant								14
		B							a		15
	ъ.		Popu	ılatio	n			Cast	alties*		• •
							Target	A	Adiace	nt Area	16
		Targe	t Area	Adj	acent A	:ea	Targer	Vice	250,000		
		Mil	Civ	Mil	· Ci	v	Mil	Civ	Mil	Civ	17
		MII	CIV.	242.55	•						10
		300	0	0	. 35	0	18	0	0	4	18
							11-14-6	1	adition		19
		*Cast	ualties (stim	ated und	ier d	laylight a	tert co	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
14	D 1	rcomb	/ENDEI) WE	APONS	AND	SORTIE	<u>5:</u>			20
14.									•	bee been	21
		This	installa	tion	is comp	rise	d of four	areas.	one a	rea has been	22
de	line				1111	•	Wespons	and s	Dirtem w		23
											24
pr	esc	ribed (damage	level	, total v	veap	ons/sort		10000	ver the target	25
ar	:e a	lso sho									
		(1)	In ordes	to a	chieve a	dan	nage leve	1 of 30)%, wear	ons/sorties	26 27
		equire	d over t	arget	:		_				21
	•	- 4000		_					2000#		
		!	500#		750#		1000#		BOME		
WEA	PO	N	BOMB	or	BOMB	OT	BOMB	OT	202	•	
			137/16		66/11		55/19		21/2	1	28
(750x	:150										29
		(2)	Weapor	15/50	rties op	erat	ionally re	quire	d to achi	eve "over	30
	1	arget"	require	men	shown	abov	re:				•
		•					67/23		26/2	6	31
			167/19		80/14						
		401	9	**	-chieve	a da	mage lev	el of 7	10%, we	pons/sorties	32
		(3)	in orde	ta por	et:						33
		redmr.	PG 0401	5'	-						:



A-C-BO-3 Tab BO to Annex C to (Revised by 9th Note to Holders) Appendix A



	500#	750#	1000#		2000#	
EAPON	BOMB of	r BOMB o	r BOMB	OT	BOMB	
•	462/52	222/37	185/62	,	71/71	1
•	•	sorties opera		uired	to achieve "over	2 3
	563/63	271/46	226/76		87/87	4
15. PRO	BABILITY O	F ACHIEVIN	G DESIRED	DAMA	AGE LEVEL: 50%	5

TOP ECRET

A-C-BO-4
(Revised by 9th Note to Holders)

Tab BO to Annex C to Appendix A





TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 61	1
2. BE NUMBER: 616-0137	2
3. IDENTIFICATION: Nom Chang Army Barracks South	3
4. DATE OF INFORMATION: 14 July 1966 DATE OF TIS: 20 June 1966	4 5
5. LOCATION: 20-47-01N/105-20-20E, UTM WH 354982, approximately 2 NM south of Hoa Binh.	6 7
contains approximately 25 buildings and has a capacity of	8 9 10 11 12 13
7. SIGNIFICABLE: This site is approximately 15 NM west of the Xuan Mal complex, location of the 336th Inf Bde and an infiltrator training center; however, this installation is probably associated with transportation of supplies and possibly infiltrators on both Routes 6 and 12.	15 16 17 18 19
8. TARGET ENTIRONMENT: This installation is bounded on the north by a wooded area and on the other three sides by farm land and civilian settlements. The junction of Routes 6 and 12 is approximately 200 yards east of the target area.	23 23 23
9. DEFENSE ENVIRONMENT:	24
9. DEFENSE ENVIRONMENT: a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites have been identified 18-30 NM distant.	24 25 26 27
a. Four SAM sites have been identified within SA-2	25
a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites have been identified 18-30 NM distant. b. No AAA defense activity has been identified in the	25 26 27 28
a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites have been identified 18-30 NM distant. b. No AAA defense activity has been identified in the area of this target.	25 26 27 28 29 30 31
a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites have been identified 18-30 NM distant. b. No AAA defense activity has been identified in the area of this target. c. Sparse HMG and small arms fire is anticipated from dispersed military personnel and local militia. 10. DAMAGE OBJECTIVE: Personnel casualties. Damage cri-	25 26 27 28 29 30 31 37
a. Four SAM sites have been identified within SA-2 missile range (17.5 NM) of this target and 14 additional SAM sites have been identified 18-30 NM distant. b. No AAA defense activity has been identified in the area of this target. c. Sparse HMG and small arms fire is anticipated from dispersed military personnel and local militia. 10. DAMAGE OBJECTIVE: Personnel casualties. Damage criterion is structural damage to barracks and storage facilities with accompanying casualties. Damage level is 30 percent. 11. EFFECT ON NVN: Damage to this facility would have	25 26 27 28 29 30 31 31 31



A.C-BP-2 Tab BP to Annex C to Appendix A (Revised by 9th Note to Holders)

14. RECOMMENDED WEAPONS AND SORTIES:							
a. This is a large target complex comprised of two areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.							
wea	(1) In ord pons/sorti	er to achieve a damage level of 30% es required over target.	ጀ				
Weapon:	250# Snakeye	250# 500# 750# or <u>BOMB</u> or <u>BOMB</u>	·				
Area A	39/4	60/5 31/4 18/3	9				
Area B	17/2	41/4 21/2 13/2	10				
: ELATOT	56/6	101/9 52/6 31/5	11				
"OV	(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:						
	68/8	123/11 63/8 38/7	14				
wee	(3) In ord	der to achieve a damage level of 70% les required over target:	15 16				
Weapon:	250# Snakeye	250# 500# 750# or <u>BOMB</u> or <u>BOMB</u>					
Area A	132/11	202/17 105/12 61/10	17				
Area B	56/5	138/12 71/8 44/7	18				
TOTALS:	188/16	340/29 176/20 105/17	19				
" O	(4) Weapo ver target	ns/sorties operationally required to requirement shown above:	achieve 20 21				
	230/19	418/35 216/24 128/21	22				
15. PR	OBABILITY	OF ACHIEVING DESIRED DAMAGE LEVEL:	50% 23				



A-C BP-3

Tab BP to Annex C to Appendix A



A-74-146-1

Tab BQ to Annex C to Appendix A



TARGET INFORMATION AND STRIKE

1.	TARGET NUMBER: 62	1
2.	BE NUMBER: 616-0259	2
3.	IDENTIFICATION: Van Dien Army Supply Depot	3
4.	DATE OF INFORMATION: 6 March 1969 DATE OF TISD: 3 June 1969 DATE OF PHOTOGRAPHY: 6 July 1966 DATE OF INTELLIGENCE REVIEW: 6 March 1969	4 5 6 7
	LOCATION: 20-55-50N 105-51-00E, 0.8 NM S of Van Dien, 4.5 NM la Noi.	8 9
rail l sistin 21 ste	DESCRIPTION: The supply depot is served by Route 1A and the N/S ine and comprises 7 separate areas. There are 195 buildings cong of 74 barracks, 35 storage/support buildings, 39 support buildings, orage buildings, 19 warehouses, 5 administration-type buildings, and as halls. The barracks have an estimated capacity of 7,000 troops.	10 11 12 13 14
7. plex	SIGNIFICANCE: This depot is part of the Ha Noi military supply com-	15 . 16
cultiv	TARGET ENVIRONMENT: The depot is located in the flat intensively vated area S of Ha Noi. Numerous probable civilian housing and storage are located on three sides of the target area.	. 17 18 19
9.	DEFENSE ENVIRONMENT:	20
	a. The target is within the SAM envelope.	21
	b. AAA activity has been identified within 3 NM of the target.	22
	c. HMG and small arms fire is anticipated.	23
crite	DAMAGE OBJECTIVE: Destruction of stored materials. Damage rion is structural damage to storage buildings with accompanying age to contents. Damage level is 30%.	24 25 26
effec	1. EFFECT ON NVN: Destruction of this facility would have minimal it since there are a number of supply facilities in the Ha Noi complex. For to National Defense Headquarters and military units in the area d be reduced only temporarily.	27 28 29 30
oper field 24 to clea repl be r	2. RECUPERABILITY: The barracks portion of this depot could resume rations within 12 hours since adjacent areas afford sufficient space for billeting. Depot operations could probably resume functioning within 36 hours, using locally available labor for emergency repairs and ring debris. Replacement of destroyed supplies is dependent upon enishment priorities. If available in North Vietnam, supplies could eplaced within 3 days; if from Communist China, up to 5 days would equired.	31 32 33 34 31 30 31

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BQ-2

Tab BQ to Annex C to Appendix #



13. COLLA	TERAL D	AMAGE	C:				•		1
a. Insig	nificant		•	• •					2
b.	Populatio	on				Ca	sualties*		3
Target	Area .	Adjacen	t Area	Ta	rget .	Area	Adjace	ent Area	4
Mil	Civ	Mil	Civ	M	il ·	Civ	Mil	Civ	5
300	0	150	300	18	3	0	2	3	6
*Casualti	es estim	ated un	ier dayligh	t ale:	rt con	ditions	· •		7
14. RECOM	MENDE	WEAF	ONS AND	SORT	TES:				8
The sub areas have been completed the damage levare also shown	e been de puted for el presc	lineate	rea. To sh	ons ap	pplica he eff	tion. ort rec	Weapons uired to	and sorties achieve	
(1) required over		r to acl	nieve a dan	age :	level	of 30%	, weapon	s/sorties	
WEAPONS	250# SNAKE	YE or S	500# NAKEYE		500# BOM	B or	750# BOME	<u>.</u>	
Area A 545' x 490')	80/7		38/4		50/6		22/4		
Area C-l 730' x 255')	56/5		27/3		46/5		20/3		
Area C-2 110' x 425')	86/7		41/5		56/6	•	24/4		
Area D (415' x 200')	18/2		10/1		20/2		11/2		
Area F (1170' x 400')	71/6	•	39/4		54/6	5	29/5		
TOTALS:	311/	27	155/17		226/	25	106/1	18	
(2 target" requir			ies operati bove:	onall	ly req	uired 1	to achiev	e "over	
	373/	32	186/20		271/	30	127/2	22	
(3 required over		er to ac	chieve a dar	mage	leve	of 709	%, weapo	ns/sorties	



A-C-BQ-3

(Revised by 17th Note to Holders)

Tab BQ to Annex C to Appendix A

250# SNAKEYE o	500# r <u>SNAKEYE</u> or	500# BOMB or	750 ∮ BOMB	2
269/22	127/14	169/19	72/12	3
189/16	89/10	155/17	67/11	4
289/24	136/15	188/21	81/14	5
59/5	32/4	67/7	35/6	6
238/20	130/14	182/20	96/16	7
	514/57	761/84	351/59	8
Weapons/so	rties operational	lly required to	achieve "over	9 10
1253/104	617/68	913/101	421/71	- 11
	269/22 189/16 289/24 59/5 238/20 1044/87 Weapons/sourcements shown	SNAKEYE or SNAKEYE or 269/22 127/14 189/16 89/10 289/24 136/15 59/5 32/4 238/20 130/14 1044/87 514/57 Weapons/sorties operational irements shown above:	SNAKEYE or SNAKEYE or BOMB or 269/22 127/14 169/19 189/16 89/10 155/17 289/24 136/15 188/21 59/5 32/4 67/7 238/20 130/14 182/20 1044/87 514/57 761/84 B) Weapons/sorties operationally required to irements shown above:	SNAKEYE or SNAKEYE or BOMB or BOMB 269/22 127/14 169/19 72/12 189/16 89/10 155/17 67/11 289/24 136/15 188/21 81/14 59/5 32/4 67/7 35/6 238/20 130/14 182/20 96/16 1044/87 514/57 761/84 351/59 BY Weapons/sorties operationally required to achieve "over firements shown above:

SECCET

A-C-BQ-4

(Revised by 17th Note to Holders)

Tab BQ to Annex C to Appendix A



A=u=in(=1) To Appendix A

TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 63	1
2. BE NUMBER: 616-0105	2
3. IDENTIFICATION: Thuan Chau Barracks and Depot	3
4. DATE OF INFORMATION: 4 January 1965 DATE OF TIS: 20 December 1965	4 5
5. LOCATION: 21-26-17N 103-41-39E, UTM UJ 646707, along Route 5 approximately 14 NM NW of Son La and 18 NM SE of Tuan Giao.	6 7 8
6. DESCRIPTION: Target consists of 7 groupings of barracks areas and storage/support-type buildings scattered along Route 6 for about 2600 yds. Included are approximately 105 storage/support type buildings, 45 barracks-type buildings and 12 administration buildings. There are vehicle maintenance shops and associated motor pools throughout the area. Interspersed are several groupings of civilian-type huts.	9 10 11 12 13 14 15
7. SIGNIFICANCE: The Thuan Chau Military School for training MR Northwest recruits and milita is reportedly located here. This area may also be a storage base and headquarters for work camps active on roads and bridge construction to the north and west.	16 17 18 19 20
8. TARGET ENVIRONMENT: Target is located in the mountainous area southwest of the Black River. Ridges and hilltops are wooded with extensive cultivation in valleys, particularly immediately adjacent to larger water courses. Majority of the target area is located on south-facing lower slopes overlooking and bordered by Route 6. Area north and northeast of the target area is mixed with wooded areas and cultivated fields. Area to the south and southwest is heavily cultivated along the river which flows parallel to and south of the road. Two civilian settlements, one identified as workers' huts, have been identified adjacent to the southwestern edge of the complex. No identified military units are known to be associated with the target area.	23456789901
9. DEFENSE ENVIRONMENT: No AAA defenses have been identified in connection with this complex. At Son La, 14 NM SE are 3 light (14.5mm-37mm) AAA containing 14 positions, 12 of them occupied. At Nam San, 24 NM SE is another occupied light 4-position site and 3 unoccupied sites of 12 positions and a possible unoccupied medium site of 8 positions. There are EW radars at Son La and Dien Bien Phu and the target is a in range of the GCI at Ban Xom Lom.	37 38 39
10. DAMAGE OBJECTIVE: Destruction of stored materials. Damage criterion is structural damage to storage buildings. This will be accompanied by damage to contents. Damage level is 30%.	42 43 44 45
11. EFFECT ON DRV: Will limit support to PL and to the 316 Inf Brigade in porportion to the criticality of stored supplies.	tn46 47 48

TOP SECRET

A-C-BR-2

Tab BR to Annex C to Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

こうから 表にいるのは 大きな

be resumed wisufficient actions complex ment of supplement and accomplished 13. COLLAT 14. RECOMM a. This areas. We area. To level protections are to the target.	ABILITY: Limithin 12-24 non iditional build to supply covered in supply covered in from 3-5 department of the supplementation of the supplementation of the supplementation of the supplementation in suppl	ers after in dings are aver for critis ays. Insignificate AND SORTIES carget completies have been required tweapons/some.	ex comprise em compute to achieve	ed of seven ed for each tree over	1234567 8 9 1011234 15
weapor	ns/sorties requ	uired over t	arzec:		16
Weapon	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	
Area A	55/5	90/8	46/5	27/5	17
Area B	24/2	49/4	25/3	15/3	18
Area C	143/12	166/14	85/9	50/8	19
Area D	199/17	244/20	125/14	74/12	20
Area E	113/9	146/12	75/8	44/7	21
Area F	59/5	89/7	46/5	27/5	22
Area G	91/8	113/9	58/6	34/6	23
Totals	684/57	897/75	460/51	271/45	24
(a	2) Weapons/sor r target" requ	ties operati	onally req m above:	uired to achi	eve 25 26
, ,	834/70	1094/91	561/62	330/55	27
() weap	3) In order to ons/sorties re	achieve a equired over	damage leve target:	el of 70%,	28 29
Weapon	250# SNAKEYE or	250# BOMB , or	500# BOMB or	750# BOMB	
Area A	185/15	303/25	155/17	92/15	30
Area B	81/7	165/14	85/9	51/9	31
Area C	483/40	561/47	287/32	169/28	32
Area D	673/56	825/69	423/47	250/42	33
Area E	301/32	493/41	253/28	149/25	34
Area F	199/17	300/25	155/17	92/15	35 36
Area G	307/26	382/32	196/22	115/19	36
Totals	2309/192	3029/252	1554/173	918/153	37
TOP ECRE	<u>T</u>	A-C-BR-3		Tab BR to Annex C to Appendix A	



	(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:					
	2816/234	3695/307	1895/211	1120/187	3	
15.	PROBABILITY OF AC	HIEVING DESI	RED DAMAGE	IEVEL: 50%	4	

TOP SCRET

Tab BR to Annex C to Appendix A



TAR BRA TO ANNEX C TO APPENDIX A



TARGET INFORMATION SHEET AND STRIKE DATA

1. TARGET NUMBER: 03.1	1
2. <u>B.E. NUMBER</u> : 617-1174	2
3. IDENTIFICATION: Vinh Loc Storage Area S	3
4. DATE OF INFORMATION: 24 May 1965 DATE OF TIS: 13 July 1965	4 5
5. LOCATION: 19-17-37N 105-43-36E, UTM WG 763334. 17 NM of the Phu Qui storage and barracks complex on the RR and main highway between Thanh Hoa and Vinh. It is 32 NM S of Than Hoa and 42 NM N of Vinh. Cap Bouton lies 4 NM SE.	6 7 8 9
containing about 50,000 square feet of storage space. It consists of 26 warehouse type buildings, 4 support-type buildings and 2 security buildings. Area is enclosed by security fencing and has access to railyout siding. There is evidence of trenching and possible strong points and it appears to be supported by a quarters-type building area which also contains some	10 11 12 13 14 15 16
related to the Phu Qui area or it may be a shipping point for rice from the surrounding cultivated fields which do not appear related to other villages. It must be noted that this location is less than 3 NM NW from the Yen Phu area which has been	18 19 20 21 22 23
Hoa-Vinh Railroad and is surrounded by cultivated rice fields interspersed with civilian houses. Low wooded hills lie beyond	24 25 26 27
9. DEFENSE ENVIRONMENT: No known AAA defenses are known to be in the vicinity of this target. The closest military units are located 20 NM to the south in the Phu Qui area. No known radar is located in this area; however this site falls within the EW capabilities of radar at Cap Falaise and Hon Me Island.	28 29 30 31 32
10. <u>DAMAGE OBJECTIVE</u> : Destruction of stored materials. Damage criterion is structural damage to storage buildings and accompanying destruction of stored supplies. Damage level is 30%.	33 34 35 3 6
11. EFFECT ON NVN: Support for military elements both to the north and south of the Vinh Loc area would be temporarily disrupted. It is also probable that supplies for Viet Cong activity would be curtailed for the period required to reestablish this storage area.	37 38 39 40 41
12. RECUTERABILITY: A thirty percent damage level would necessitate use of some emergency storage, possibly in the civilian areas nearby. Limited operations could be resumed within 48 hours. Replacement of stocks from sources to the north would require 3 to 5 days. If this storage site is used for locally grown rice, replacement to the pre-strike level may depend on the next harvest.	42 43 45 45 47 48
13. COLLATERAL DAMAGE: Insignificant.	49



A-C-BRa-2

Tab BRa to Annex C to Appendix A



14. RECOMMEN	DED WEAPOI	IS AND S	ORTIES:			1
a. In or sorties req	der to acl	nieve a d r target	damage le :	vel of 30	6, weapons/	2 3
Weapon:	250# Snakeye	250# BOMB		750# BOMB	:	
	53/4	75/6	39/4	39/4		4
b. Weapo	ns/sortie	s operat ements s	ionally r hown abov	required t	o achieve	5
	65/5	91/7	48/5	48/5		7
c. In or sorties req				evel of 70	%, weapons/	8 9
Weapon:	250# SNAKEYE	250# POMB	500# BOMB	750# BOMB	·	
•	179/15	253/21	132/15	78/13		10
d. Weapo	ns/sortie t" requir	s operat emends s	ionally i	required t ve:	o achieve	11 12
	218/18	309/26	161/18	95/16	•	13
15. PROBABIT	TTY OF AC	HTEVING	DAMAGE L	EVEL: 509	,	14

A-C-BRa-3 Tab BRa to Annex C to Appendix A (Revised by 7th Note to Holders)





TARGET INFORMATION AND STRIKE DATA

1. TARGET NUMBER: 63.11	1
2. BE NUMBER: 616-0696	2
3. IDENTIFICATION: Van Dien Vehicle Depot Complex	3
4. DATE OF INFORMATION: 8 October 1968 DATE OF TISD: 2 June 1969 DATE OF PHOTOGRAPHY: 6 July 1966 DATE OF INTELLIGENCE REVIEW: 3 March 1969	4 56 7
5. LOCATION: 20-57-07N 105-50-58E, located 0.2 NM N of Van Dien, 5 NM S of Ha Noi on Route 1A and the North/South rail line.	. 8 9
6. DESCRIPTION: This complex is comprised of 7 separate areas with an aggregate of 145 buildings. Route 1A and the N/S rail line bisect this installation with areas A,B,E, & F to the west and areas C,D & G to the east.	10 11 12 13
7. SIGNIFICANCE: This depot is in an area of light industry S of Ha NoI. The presence of many trucks indicates that this is probably a maintenance and repair area. The areas are secured, the maintenance/storage buildings are large and there is ample parking and the roads are hard-surface with gentle turns into the buildings.	14 15 16 17 18
interspersed by cultivated fields and civilian settlements. Numerous industrial and storage areas are located both N and S of the target along Route 1A.	19 20 21 22
9. DEFENSE ENVIRONMENT:	23
a. The target is within the SAM envelope.	24
b. AAA activity has been identified within 3 NM of the target.	25
C. HMG and small arms fire is anticipated.	26
10. DAMAGE OBJECTIVE: Destruction of vehicle maintenance facilities. Damage criterion is structural damage to maintenance structures and barracks with accompanying damage to equipment, vehicles and personnel casualties. Damage level is 30%.	27 28 29 30
11. EFFECT ON NVN: Damage to this facility would further aggravate the apparent transportation slow-down caused by repeated strikes on vehicles, bridges, roads, and railroads.	31 32 33
12. RECUPERABILITY: Limited vehicle maintenance and repair could probably be resumed within 36 hours, or as scon as debris is cleared. Housing for displaced personnel could be provided within 12 hours since dispersal to nearby civilian housing is feasible.	3! 3! 3'

SE RET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BRb-2

Tab BRt to Annex C to Appendix A

12	COLLA	PEDAT.	DAM	CF.
	COLLA	LLKAL	שינותע	10 E :

a.	Insi	gnif	icant.
----	------	------	--------

b. Population			Casualties*				. 3	
Target	Area	Adjacent	Area	Target	Area	Adjacent	Area	4
Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	5
4600	0	200	700	276	0	2	. 7	6
*Casuali	ties es	stimated unde	r dayl	ight ale	rt con	aitions.		7
·								В

14. RECOMMENDED WEAPONS AND SORTIES:

This target complex consists of 7 areas. Five areas with 8 sub areas have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required to achieve "over target" requirements are also shown:

(1) In order to achieve a damage level of 30%, weapons/ sorties required over target:

sortles require	d over careco.				- 0
KEAPON	250 # SNAKEYE	500# SNAKEYE	500# BOMB	750# BOMB	18 19
Area A	35/3	20/2	34/4	18/3	20 21
Area B (1995)	17/1	9/1	18/2	10/2	22 23
Area C-1 (676' x 405')	61/5	29/3	41/5	18/3	211 25
Area C-2 (4:30) x 400)	40/3	22/2	31/3	17/3	26 27
Area D (625' x 515')	53/4	29/3	38/4	20/3	28 29
Area G-1 (610' x 385')	70/6	33/4	48/5	21/4	30 31
Area G-2 (530' x 110')	14/1	8/1	22/2	12/2	32 33
Area G-3		15/2	24/3	13/2	34 35
(145' x 330')	318/25	165/18	256/28	129/22	36



A-C-BRb-3

(Revised by 17th Note to Holders)

Tab BRb to Annex C to Appendix A

1

9 10

STERET "over target"	(2) Weapons/ "requirement	sorti	es operati wn above:	onally	required to	achieve	1 2
	382/30		198/22		307/34	155/26	3
sorties requ	(3) In orderired over ta	r to e	achieve a c	lamage	level of 70%	, weapons/	4 5
WEAPON	250# Snakeye	or	500# SNAKEYE	or	500# BOMB or	750# BOMB	6 7
Area A	118/10		65/7		113/13	60/10	8
Area B	56/5		31/3		59/7	32/5	9
Area C-1	135/11		74/8		105/12	56/9	10
Area C-2	204/17		96/11		138/15	59/10	11
Area D	177/15		97/11		127/14	68/11	12
Area G-1	235/20		111/12		160/18	68/11	13
Area G-2	46/4		26/3		72/8	38/6	14
Area G-3	93/8		51/6		80/9	43/7	15
TOTALS	1064/90		551/61		854/96	424/69	16
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:							17 18
	1025/115		509/83		1277/108	661/73	19
15. PRO	BABILITY OF	ACHIE	VING DESIR	ED DAM	AGE LEVEL:	50%.	20



112 PRO 10 MINOR DE AWY 1019

E 187 E1 180 6 6 1 1 1



634

TARGET INFORMATION SHEET AND STRIKE DATA

60.10	1
1. TARGET NUMBER: 63.13	2
2. BE NUMBER: 617-1289	3
3. IDENTIFICATION: Chuc A Army Bks and Supply Area.	4
4. DATE OF INFORMATION: 13 August 1965 DATE OF TIS: 14 October 1965	5
5. LOCATION: 18-05-55N/105-41-35E, UTM WF 733012, approximately 2.2 NM NW of Chuc A and 6 NM east of the Laotion-VN border.	67-6
6. DESCRIPTION: This supply area extends for about 1.5 NM on both sides of a road leading NW from Chuc A. The facilities consist of approximately 50 buildings including 15 barrackstype structures, 21 storage buildings, 10 support buildings, type structures, 21 storage buildings. A path leads from the 3 mess halls and headquarters building. A path leads from the 3 headquarters area to possible cave storage. The roads at this headquarters area to possible cave storage. The roads at this site appear well used and trenching is evident throughout the area. Troop capacity is approximately 1250 and storage capacity is about 57,000 square feet.	9 10 11 12 13 14 15 16 17
7. SIGNIFICANCE: This site is close to both Route 12 and Laotion border; therefore, it is ideally situated to provide supplies and support for infiltrations activities.	19 20
8. TARGET ENVIRONMENT: Target is located in a small cultivated valley surrounded by heavily wooded hills. Several small farms are also located in the valley, some of which shut the target area.	21 22 23 24
9. <u>DEFENSE ENVIRONMENT</u> : No known SAM or AAA defenses are located in the vicinity of the target. Light AW and small arm fire may be encountered. There are no known threat (Fire Control) radars in the area.	25 26 27 28
10. DAMAGE CBJECTIVE: Destruction of stored materials. Damage criterion is structural damage to storage buildings and accompanying damage to stored supplies. Damage level	29 3 3. 32
is 30%.	33 34
11. EFFECT ON DRV: Damage to this supply area house temporarily slow down infiltration activities in this area. 12. RECUPERABILITY: Supply operations could probably be resumed within 36 hours after damage utilizing military personnel for clearing debris and effecting emergency repairs However, it is probable that both supplies and military personnel would be dispersed to the civilian settlement or to the wooded areas which surround the installation on 3 sides.	40
13. COLLATERAL DAMAGE: Insignificant.	41
THE RECOMMENDED WEAPONS AND SORTIES:	42
a. This target complex is comprised of four areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:	43 44 45 46 47

TOP CRET

A-C-BRd-2

Tab BRd to Annex C to Appendix A

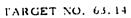
(Added - 5 January 1966)

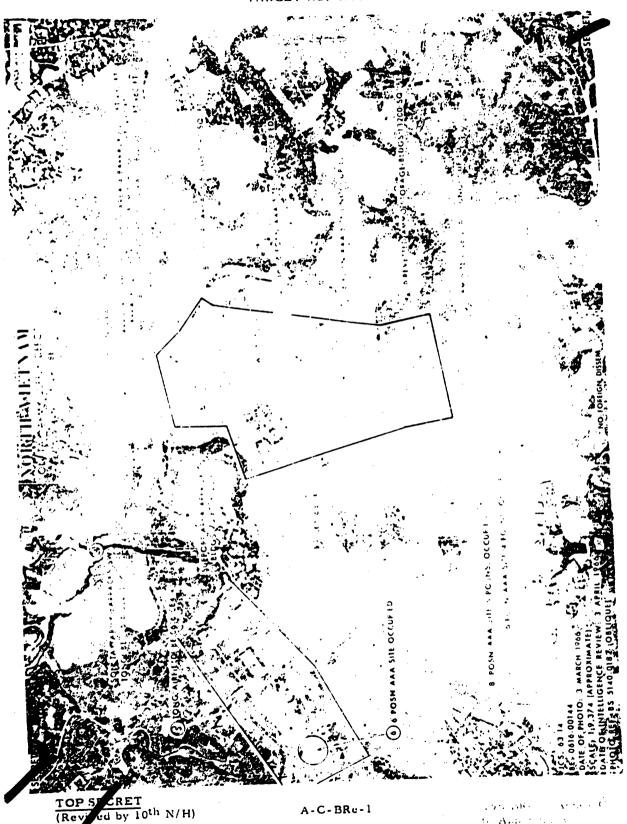
TOP CRET

			-				
(1 weapo) In order to a ns/sorties requ	chieve a dam ired over ta	age level of rget:	30%,	1 2		
WEAPON	250# SNAKEYE or	250# BOMB or	500;; BOMB or	750# BOMB	3		
Area A	£3/7	131/11	67/7	40/7	5		
Area B	36/3	70/6	36/4	21/4	6		
Area C	41/3	82 / 7	42/5	25/4	7		
Area D	134/11	165/14	85/9	50/8	8		
Totals	294/24	448/38	230/25	136/23	9		
(2 "over) Weapons/sorti	les operation rement shown	ally require above:	d to achieve	10 11		
	359/30	546/46	280/31	166/28	12		
(3 weapo) In order to a	achieve a dam uired over te	mage level of arget:	70%,	13 14		
WEAPON	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BOMB	15		
Area A	280/23	442/37	226/25	135/23	16		
Area B	121/10	236/20	121/13	71/12	17		
Area C	138/12	276/23	142/16	85/14	18		
Area D	452/38	557/46	287/32	169/28	19		
Totals	991/83	1511/126	776/86	460/77	20		
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:							
	1209/101	1843/154	946/105	561/94	23		
15. PRCB	ABILITY OF ACHI	EVING DESIRE	D DAMAGE LEVI	EL: 50%	24		

TOP SPERET

Tab BRd to Annex C to Appendix A







TARGET INFORMATION AND STRIKE DATA

1 TARGET NUMBER: 63.14	•
2	:
2. BE NUMBER: 616-0144	•
3. IDENTIFICATION: Son Tay Army Supply Depot	-
A DATE OF INFORMATION: 12 August 1966	4 5
DATE TIS: 19 August 1966	6
DAME OF BUOTOGRAPHY: 3 MATCH 1900	7
DATE OF INTELLIGENCE REVIEW: 3 April 1966	8
R of Tong Airfield, approximately 2.5 km Sm Of Bon 129, approximately 1	0
10 20 NM WNW OI HE NOI.	1
	2
proximately 6 storage buildings, / Darrach a possible ordnance shop, 1	.3
administration Duliume, - vometa	4
6 mayorted propable ammunitation by the section and to be ab-	15 16
	17
1 Ann matric Long. 1100p Cupació	
and the son Tay Millyary	18
7. SIGNIFICANCE: This depot is a part of schools, including Complex. Two artillery regiments and several schools, including complex. Two artillery regiments are reportedly in the Son	19
Complex. Two artillery regiments and several schools, in the Son armored and signals officers training, are reportedly in the Son	20 21
armored and signals officers transport	21
Tay area.	22
8. TARGET ENVIRONMENT: This site is located in a relatively	23
8. TARGET ENVIRONMENT: This site is located and heavily cultivated area. Civilian settlements are near- flat and heavily cultivated area. Civilian settlements are near-	24
flat and heavily cultivated area. Civilian Betties the depot. by and Tong Airfield is located just to the west of the depot.	25
9. DEFENSE ENVIRONMENT:	20
a tab to tempodiately south	26
a. Fourteen SAM sites, one of which is immediately and a missile of the ammo storage area, have been identified within SA-2 missile of the ammo storage area, have been identified within SA-2 missile of the ammo storage area, have been identified within SA-2 missile	27
of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area, have been identified within all most of the ammo storage area.	28 29
range (17.5 Nm) and 10 address.	25
the target.	30
b. Identified AAA defense activity in the Son Tay area in-	31
b. Identified AAA defense activity in the Bon 24 occupied 57mm/85mm cludes 6 active sites (17 occupied 37mm and 21 occupied 57mm/85mm cludes 6 active sites (17 occupied 37mm and 21 occupied 57mm/85mm	32
revetments) and 5 inactive had below	33
66)	34
c. Intense HMG and small arms fire from the barracks and	33
training areas is anticipated.	- '
from the man and the same and t	



A-C-BRe-2

Tab BRe to Annex C to Appendix A

10.	DAMAGE (OB JECT	IVE: Des	truct	ion of	store	d mater:	als.	Dam-	l
			TOTING 1 d	9 m 9 0 0	1.0 81.0	7 A 2 O	pullalai	CB PU	2 MC-	2 3
			casualti							_
11.	EFFECT	ON NVN	: Damage	to th	is inst	allat	ion wou	ld te	mporarily	4
			arby barr for a sho							é .
Trainio	g activ	not b	e serious	ly a	fected.	0 010				7
-							.14 bo m		d within	8
12.	RECUPER	ABILIT	Y: Limit	ed o	peration	s cou ield	billeti	ng 20	d ten-	9
										10
										11 12
		other	milliarv	erem	GU.B. wr	Id Ha	мо1, тл	e pro) [4 O L =	13
Bource	of supp	1168,	is relat:	rvery	Close.					- 4
13.	COLLATI	RAL DA	MAGE:				•			14
										15
•	A. Int	signif:	1CBDT		•			_		
	b.	Popu	lation				Car	sualt.	168*	16
		1	Adjacent	Aros	<u>.</u>	Targ	et. Area	Adj	acent Ares	17
	Target	VLER	Majacent	W. Ca		_		•	_	
	Mil	Civ	Mil	Civ		Mil	Civ	Hil	Civ	1.8
	1600	0	100	50		96	0	1	1.	19
	1600	•			_					20
	+Casua	lties	estimated	unde	er davli	ght a	lert co	ng 1 T. 1	ons.	20
1.4	PROM	RNDED.	WEAPONS A	ND S	ORTIES:					21
14.									Teanor &	22
_			et complex							23
		Abtove	a the cami	128 1	BAGT DI		,	al w	eapons/	24 25
sortie	s requi	red o	ver the t	arget	are als	so she	own:			, 23
								30%,	weapous,	29
•	(1) sorties	requ	ired over	targ	et:	•				27
					250#		500#		750#	
	MT		250# Bnakeye	or	BOMB	or	вомв	OT	BOMB	
WEAPO					(1.5		156 /20		176 /29	28
Area	A (500x	1100)	135/11		176/15		176/20		110,25	• • •
	n /150	450)	21/2		50/4		26/3		15/3	29
	B (150x		21/-				03./0		48/8	30
Area	C (750×	850)	133/11		158/13		81./9		40.0	30
	D (150x		26/2		60/5		31./3		18/3	31
Area	D (120x	.000,			154		314/35		257/43	32
Total	. S		315/26		444/37		314/35)	23:,43	3.0
					A-C-BR	-3			Tab BR	
TOP	CRET	•			V-A-DI		i		Annex	
	7								Append	LX A



(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:							
	384/32	541/46	383/43	313/53	3		
(3) sorties	In order to achieve required over targe	e a damage	level of 70%,	weapons.	4 5		
WEAPON	250# Snakeye of	250# BOMB o	500# BOMB or	750# BOMB			
Area A	455/38	594/50	594/66	594./99	6		
Area B	71/6	169/14	88/10	51/9	7		
Area C	449/38	533/44	273/30	162/27	8		
Area D	88/7	203/17	105/12	61/10	9		
Totals	1063/89	1499/125	1060/118	868/145	10		
(4) "over t	Weapons/sorties op arget" requirements	erationall shown abo	y required to	achieve	11 12		
	1296/108	1828/153	1293/144	1059/177	13		
15. PROB	BILITY OF ACHIEVING	DESIRED D	AMAGE LEVEL:	50%	14		

TOP SCRET

A-C-BRe-4

Tab BRe to Annex C to Appendix A



TARREST DO ARREST OF THE BACK AND THE BACK A



1. TARGET NUMBER: 63.2	1
2. BE NUMBER: 0617-00091	2
3. IDENTIFICATION: Dong Thanh Warehouse Area South	3
4. DATE OF INFORMATION: 5 January 1965 DATE OF TIS: 5 July 1966	5
5. LOCATION: 17-28-59M/106-30-30E, UTM XE 010310 (1.3 NM SSW of Dong Thanh and 6 NM West of Dong Hoi).	6
6. DESCRIPTION: This warehouse area is oriented N-S along the east bank of the Song Dinh and contains 5 warehouse areas and a barracks area. Area A contains 35 buildings including 7 warehouses and 28 support buildings; area B contains 10 warehouses and 6 support buildings; area C: 13 warehouses and 6 support buildings; area D: 7 warehouses and 5 support buildings; area E: 4 warehouses. Area F contains 14 barracks-type buildings and an administration building. Capacity is about 1200 men. Total storage space is 160,000 square feet. 7. SIGNIFICANCE: This depot is probably the supply center for the 325th Division and supporting troops in the Dong Hoi area: It probably receives all classes of supply direct from Vinh. 8. TARGET ENVIRONMENT: This depot is located in fairly flat terrain with low wooded hills to the south and paddy fields to the north and east. Small villages surround the area and other military installations and training areas are to the east.	8 90111111111111111111111111111111111111
9. DEFENSE ENVIRONMENT:	26
a. Nine active AAA sites with 34 light (14.5mm - 37mm) AAA positions occupied and 7 positions unoccupied are located within 6 NM of the target in the Dong Hoi area, located near troop areas.	27 28 29 30
b. Early warning radars are: one KNIFEREST B and one SUR located at 17-30N/106-36E.	32 31
10. DAMAGE OBJECTIVE: Damage criterion is structural damage to buildings and accompanying personnel casualties.	33 34 35
11. EFFECT ON DRV: Could have immediate effect on logisti to support troops in Dong Hoi area and to DRV elements supporting Viet Cong.	c 36 37 38
12. RECUPERABILITY: With 30% destruction assumed piecemeal operations could begin in 24-48 hours. 5-10 days would be required to effect repairs and receive full quota of supplies to resume normal operations.	39 40 41 42



A-C-BT-2

Tab BT to Annex C to Appendix A

(Revised by 9th Note to Holders)

13. <u>c</u>	OLLATE	RAL DAN	MAGE:						1
a	. Insi	gnifica	ant		•				2
ъ	. Popu	lation				Casual	ties*		3
T	arget	Area	Adjacent	Area	Target	Area	Adjacent	Area	14
М	11	Civ	Mil	Civ	Mil	Civ	Mil	Civ	5
2	40	С	80	0	14	0	1	0	Ö
*	Casu	alties	estimated	under	dayligh	t alert	conditio	ns.	7
14.	RECOM	(ENDED)	WEAPONS AT	D SOR	MES:				8
are	as. To el proget 1	Weapons o show escribe s also		weabou f Ledn: res us	ired to a	achieve s requi	the dama red over	h ge the	9 10 11 12 13
	(1 weapo) In or ns/sort	der to acies requi	hieve red ov	a damage er targe	••	of 30%		14 15
Weapor	_	50# NAKEYE	250# or <u>BOMB</u>		500# BOMB or				16
Area /	4	91/8	117/1	.0	59/7	34/6			17
Area l	В	78/7	123/1	LO	62/7	36/6			18
Area	C	67/6	94/8	3	47/5	28/8			19
Area	D .	51/4	77/	6	39/4	23/4			20
Area	E.	24/2	57/	5	29/3	17/3			21
Area	P .	82/7	116/	10	58/7	34/6			22
TOTAL	ند:	393/34	584/		294/33	172/3			23
	achi	2) Wear	oons/sorti	es ope	rational irement	ly requ	ired to		24 25
		475/4	710/	/60	358/40	210/	36		26
	Mesi	(3) In cons/so	order to o	achiev uired	e a dama over tar	ge leve get:	1 of 70%		27

TOP SECRET

A-C-BT-3

Tab BT to Annex C to Appendix A

(Revised by 9th Note to Holders)

Weapon:	250# SNAKEYE o	250# r <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A	307/26	395/33	199/22	115/19	3
Area B	263/22	415/35	209/23	112/20	
Area C	226/19	317/26	159/18	95/16	-,
Area D	172/14	260/22	132/15	78/13	:
Area E	81/7	192/16	98/11	58/10	:
Area F	277/23	390/33	196/22	115/19	E
TOTALS:	1326/111	1969/165	993/111	583/97	7
ac	(4) Weapor	ns/sorties (target" re	operational	lly required to shown above:	8 9
	1620/136	2400/181	1220/136	710/118	10
15. PR	OBABILITY OF	F ACHIEVING	DAMAGE LE	VEL: 50%.	11

TOP SERET

A-C-BT-4

Tab BT to Annex C to Appendix A

(Revised by 9th Note to Holders)



TOP Y HET

A-C-BT0-1

Tab ETa to Annex C to Appendix A



1. TARGET NUMBER: 63.21	-
	2
	3
4. DATE OF INFORMATION: 2 June 1965 DATE OF TIS: 12 July 1965	4 5
5. LOCATION: 17-30-01N 106-29-45E, UTM XE 588354, 1.3 nm SW of Dong Thanh, 7 NM WNW of Dong Ho1.	6 7
6. DESCRIPTION: This storage facility contains five areas. Areas A and B which are closely associated, contain 22 barracks, Areas A and B which are closely associated, contain 22 barracks, 21 storage buildings and 6 support structures. There are 2 administration buildings, 2 possible mess halls and 4 barracks- type structures in Area C; and in Area D there are 18 fence- type structures in Area C; and in Area D there are 18 fence- type structures in Area E is somewhat removed and to the support of the other areas and contains 5 barracks-type buildings, north of the other areas and contains 5 barracks-type buildings,	8 9 10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: This depot is near the general area formerly occupied by the 325th Division and is close to Dong Hoi. Areas A and D show evidence of trenching; however, this installation is predominately agricultural in appearance. The size and extent of the surrounding cultivated areas suggest a government enterprise, possibly a state farm, that is thought to support troops in local area.	19 20 21 22 23 24 25
8. TARGET ENVIRONMENT: Areas A, B, and C are located in wooded hills surrounded by cultivated fields and extensive orchards or groves, while Areas D and E are on flat level ground adjoining cultivated areas.	26 27 28 29
9. DEFENSE ENVIRONMENT:	30
a. Twenty-six of the Dong Hoi complex AAA defense sites are within 6 NM of this installation; however, only 2 sites are active (6 occupied/4 unoccupied 14.5mm/37mm). The inactive sites contain 99 unoccupied 14.5mm/37mm positions and 4 HMG positions.	31 32 33 34 35
b. This installation falls within the early warning capability of EW radar at Dong Hoi.	36 37
10. DAMAGE OBJECTIVE: Destruction of stored materials. Damage criterion is structural damage to storage buildings. Damage level is 30 percent.	38 39 40
11. EFFECT ON DRV: Could have an immediate effect on logistic support to troops in the Dong Hoi area and to DRV elements supporting military activities of the Viet Cong. Activities related to operation of the surrounding agriculture complex would also probably suffer disruption resulting in a complex would also probably suffer disruption resulting in a control and temporary effect on the civilian economy.	42 42 43 44 44 44

TOP STORET

A-C-BTa-2

Tab BTa to Annex C to Appendix A

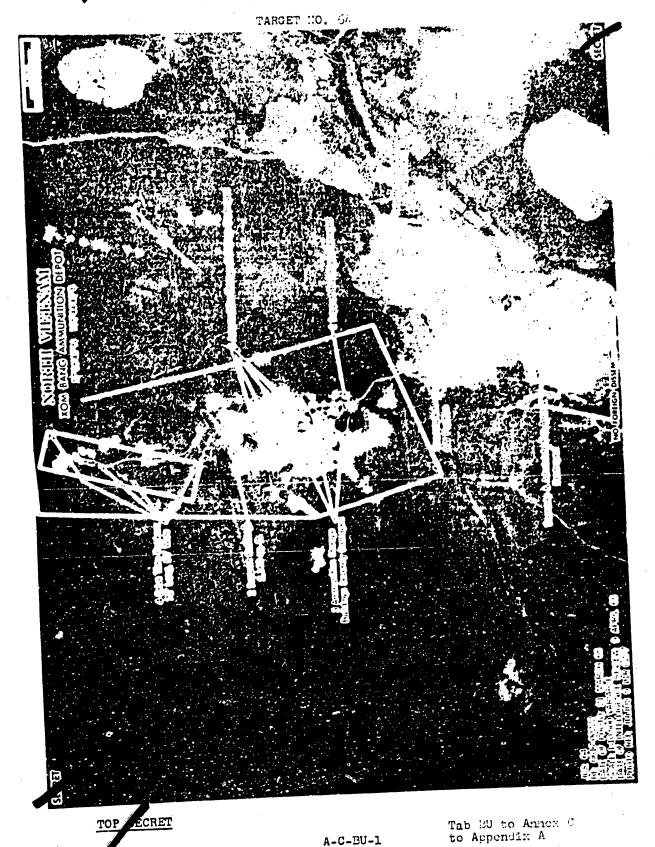
in 48 hou shelter a days woul supplies	re since ther nd storage fo d be required	e is ample s r salvaged m to clear de from further	pace to set up aterials. A m bris and if th north, it wou	inimum of 5 ic stored	123456
13. <u>cot</u>	LATERAL DAMAG	E: Insignif	icant.		7
14. REC	HAEW GEDNEMON	ONS AND SORE	<u> </u>		8
and so	orties have be required to weapons/sorti	en computed achieve the	mprised of 5 a for each area damage level ; over the targe	ress. Weapons. To show the prescribed, at is also	9 10 11 12 13
WG	(1) In order	to achieve a	a damage level or target:	or 30%,	14 15
Weather.	250# SNAKEYE or	250% <u>BOAG</u> or	500# <u>BCMB</u> or	750// BOMB	16 17
Area A	307/26	369/31	189/21	111/18	18
Area B	33/3 ⁻	55/5	28/3	17/3	19
Area C		48/4	25/3	15/2	20
Area D	198/17	234/19	119/13	71/12	21
	40/3	70/6	36/4	21/4	22
Totals	607/51	776/65	397/44	235/39	23
ad	(2) Weapons/ hieve "over t	corties oper arget" requi	rationally requirement shown a	uired to above:	24 25
	740/62	946/79	484/54	287/48	26
we	(3) In order	r to achieve s required o	a damage leve	1 of 70%	27 28
Area A	1035/86	1243/103	638/71	374/62	29
	111/9	185/15	95/11	58/10	30
Area C	98/8	162/14	85/9	51/8	31
Area D	668/56	789/66	401/45	240/40	32
Area E	135/11	236/20	121/13	71/12	33
	2047/170	2615/218	1340/149	794/132	34
	(II) Magnane	/sorties ope target" requ	rationally requirement shown	quired to above:	35 36
	2496/208	3189/266	1634/182	968/161	37
15. <u>I</u>	· •	ACHIEVING 1	DESIRED DAMAGE	LEVEL: 50%.	38

TOP CERET

A-C-ETa-3

Tab ETa to Annex C to Appendix A

(Revised by 7th Note to Holders)



A-C-BU-1

442



1. TARGET NUMBER: 64	1
2. BE NUMBER: 0617-00222	2
3. IDENTIFICATION: Xom Bang Ammo Depot	3
4. DATE OF INFORMATION: 9 April 1965 DATE OF TIS: 16 April 1965	4 5
5. LOCATION: 17-06-59N/106-45-10E, UTM 48Q XD 855927, 0.5 NM NW of Xom Bang, approximately 7 NM ENE of Vit Thu Lu and approximately 15 NM WNW of Vinh Linh.	6 7 8
6. DESCRIPTION: This is an ammo storage complex consisting of 3 adjacent areas covering 35 acres:	9 10
 a. A group of 8 ammo storage buildings, 5 set in hill- side cuts and all revetted, and 2 support buildings; 	11 12
b. to the east is a barracks and support area containing 4 barracks, I administration building and 4 support buildings W of the road, and 4 probable storage buildings, 4 support buildings and a motor pool on the SE side of the road. Troop capacity is approximately 500;	13 14 15 16 17
c. a more recently constructed area to the west consisting of 3, possible 4 drive-through bunkers and a support building, (3 support buildings have been dismantled).	18 19 20 21
7. SIGNIFICANCE: Ammunition depot supports the 325th Infantry Division and 270th Independent Infantry Regiment, including elements moving into RVN. Capable and suspected of supporting PAVN and PL in the Tchepone area, Laos.	22 23 24 25
8. TARGET ENVIRONMENT: Storage area spreads over about 35 acres in rolling low hills. To the west elevations rise to 500 and 1000 feet. Area unpopulated. Mountains with elevations of over 2000 feet lay to the NW and SW.	26 27 28 29
9. DEFENSE ENVIRONMENT:	30
a. There is 1 active, 4 position light (14.5 - 37mm) AAA site located at 17-07-05N/106-45-20E (XD 871933). All positions were occupied as of 10 February 1965. In the Chap Le - Vinh Linh area, about 14 NM tast, there are 5 active and 17 inactive sites, amounting to 21 light AAA and 78 unoccupied positions (8 - 14 Feb 65).	33 34 · 35 · 36
b. The installation falls within the defenses of the DMZ headquarters and is probably operationally supported by the 325th Infantry Division at Dong Hoi. In the DMZ complex the principal operational unit is the over-strength 270th Independent Infantry Regiment from which defense support would be available. Strength of the 270th Regt is estimated at 5,000. There are probably 13,000 operational troops in the Dong Hoi area.	378990 41244444444444444444444444444444444444





of Lang Vinh Lin and a SC	Mo (17-10. h early w R-270 with	-00N/10b-22-00	DE), appro	ated within 10 NM ximately 20 NM ENE. st, include a RUS-2 and a KNIFERESTB	1 2 3 4 5
storage are Damage crit	a and cas eria are	ualties to pe one hit per s	torage str	red ammunition in support area. vucture and structurs and structurs and con- level is 30 percent.	
11. EFFE	T ON NVN:	Reduced sup Loss of direct RVN and Laos	port capat	ilities to NVN units capability to PAVN	
ammunition could begin could prob	n at once, ably be me have to l depots.	nts of the 32 . Repair of a de in approxi be shipped on Full recuper	oth Divisions to Table 1 of the Storage but imately 5-	nd shipment of some on and 270th Regt nkers and revetments 7 days. Replacement hen made available d be attained in	15 16 17 18 19 20 21
		MAGE: Insign	ificant.		22
		EAPONS AND SO			23
a. ? area. area.	This is a Weapons	large target and sorties h the effort red t, total weapo	complex co	omprised of three computed for each achieve the damage a required over the	24 25 26 27 28
-	/3\		e a damage over targe	level of 30% t:	, 30 29
Weapon:	250# SNAKEYE	250# or BOMB or	500#	750#	
Area A	129/11	162/14	162/18	162/27	31
Area B	14/1	28/2	22/3	18/3	32
Area C	260/22	316/26	316/35	316/53	33
Totals:	403/34	506/42	500/56	496/83	34
	(O) Washo	-	erational	ly required to achievove:	ve 35 36
		618/51			37
9 F 970				AMAGE LEVEL: 50%.	38

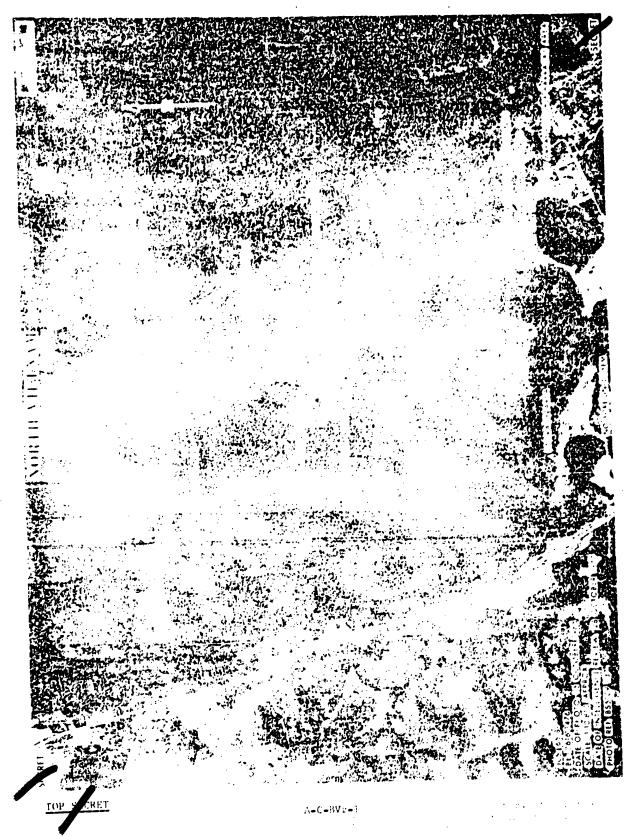


Tab BU to Annex C to Appendix A



TABLEWS TO ANNEX C TO APPENDIX A

PARGET NO. 65.8



1. TARGET NUMBER: 65.8	1
2. <u>BE NUMBER</u> : 616-1476	; ·
3. IPENTIFICATION: Hanoi SAM Support Facility	3
4. DATE OF INFORMATION: 14 June 1966 DATE OF TIS: 20 June 1966 DATE OF PHOTOGRAPHY: 15 October 1965 DATE OF INTELLIGENCE REVIEW: 28 October 1965	4507
5. LOCATION: 20-44-58N 105-39-10E, UTM WH 680940, 20 NM SW of Hanol, 4 NM NNW of Cap Duong, and 12 NM SSE of SAM site B-25-2 (Site #11).	10
buildings, 16 support buildings, 2 possible cave-storage areas, 2 unidentified vehicles, 1 missile transporter, 1 probable missile transporter, unidentified buildings	11 12 13 14 15 16
7. SIGNIFICANCE: This constitutes the first SAM support facility confirmed in North Vietnam. The establishment of a support facility in this area, within 25 NM of 14 previously identified SAM sites, materially enhances NVN capabilities for supporting SAM operations by permitting a reduction in the number of support-type personnel and amount of support equipment required at individual SAM sites.	18 19 19 10 12 23 4
8. TARGET ENVIRONMENT: Target is located on flat lowland in an area containing many low limestone riages which are particularly suitable for digging storage cayer. The area is served by an extensive road network which is believed capable of handling missile and missile-essociated equipment transport.	25 25 25 25 25 25 25 25 25
a. Six SAM sites have been identified within SA-2 missile range (17.5 NM) of the target, and 18 additional SAM sites have been identified 18-30 NM distant.	32 33 34
b. There is no identified AAA activity in the immediate target vicinity. However, activity exists at Dong Em (6 active sites of 14 occupied 57/85-mm revetments and 16 occupied 37-mm revetments) 1 NM SSW and Lang Geo (4 inactive sites) approximately 5 1/2 NM south.	35 36 37 38 39
c. Moderate HMG and small arms fire is anticipated.	40

TOP STERET

A-C-BVg-2

Tab bVg to Annex C to Appendix A

(Revised by 8th Note to Holders)



10. DAMAGE OBJECTIVE:	Destruction of	v1"	t.hir:	fucility	141.13
transportation support.					

- 11. EFFECT ON DRV: Destruction of new, costly and sophisticated air defense missiles and equipment, and the loss of support to SAM sites serviced by this facility would seriously weaken the DRV air defense capability in the area south of Hanpi.
- 12. RECUPERABILITY: The time of recovery would depend primarily on the availability of replacement equipment which is an unknown factor; however, the proximity of Hanci (approximately 20 NM) which is believed to have adequate replacement equipment, probably would permit limited recovery within 2 days, and full recovery within 10 days. If, as can be assumed, the caves are being used for the storage of vital equipment, the recovery time could be reduced by half. However, if replacement equipment, i.e., missile transporters, and handling cranes are not available in DRV, up to 20 days would probably be required to transport this material from the USSR.

13. COLLATERAL DAMAGE: Insignificant.

14. RECOMMENDED WEAPONS AND SORTIES:

This support facility, the first of its kind confirmed in North Vietnam, is comprised of 4 areas. Weapons and sorties have been computed for each area.

To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 30%, weapons/sorties required over target:

WEAPON:	250# SNAKEYE	or	250# BOMB c	500# r <u>BOMB</u>	or	750# <u>BOMB</u>	
Area A	16/1		46/4	24/3		14/2	30
Area B	11/1		35/3	18/2		11/2	31
Area C	24/2		68/5	35/4		21/4	33
Area D	16/1		46/4	24/2		14/2	33
Totals	67/5		195/16	101/1	1	60/10	34
100025	(a) !!:	- /	.+4 og oper	etionally	regui	red to	35

(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:						
82/7	238/20	123/14	73/12	37		

		38
/al To andam	to achieve a damage level of (0%)	يرو
(3) In order	to achieve a damage level of 70%,	39.
weapons/sorties	required over target:	



82/7

A-C-BVg-3

Tab BVg to Annex C to Appendix A

8

9

17 18

19

20

21

(Revised by 6th Note to Holders - 25 March 1966)

WEAPON:	250# SNAKEYE	or	250# BOMB	or	500# BOMB	or	750# BOMB	
Area A	54/5		155/13		81/9		48/8	1
Area B	37/3		118/10)	61/7		37/6	. 2
Area C	81/7		230/19)	118/13	}	71/12	3
Area D	54/4		155/13		81/9	•	48/8	. 4
Totals	226/19		658/55	5	341/38	3	204/34	5
acl	(4) Wespon hieve "over	s/sor targ	ties ope et" requ	erati uirem	onally ment show	requi m ab	red to ove:	6 7
	276/23		802/67	7	416/40	5	249/42	8
						- T	mret . 50 4	3

A-C-BVg-4 Tab BVg to
Annex C to
Appendix A

(Revised by 6th Note to Holders - 25 March 1966)

A AR

GPY NO. _____

REVISION OF APPENDIX A TO ENCLOSURE A

TO

JCS 2343/383-2

VOLUME III

TOP SECRET

TOP SECRET

655



SEC 211 (Red red by 15th N/H)

 $A \in C \times B(W \times 1)$

Too BW To Annex C To Appendix A

1 TARGET NUMBER: 66	
2. <u>B. E. NUMBER:</u> 616-0164	
3. EDENTIFICATION: Ha Noi Intl Radcom Xmtr Station, Dai Mo	
4. DATE OF INFORMATION: 10 January 1968	
7 17 OF TIS. 11 March 1968	
SALE OF BUOTOGRAPHY: 18 October 1707	
DATE OF PHOTOGRAPHI. DATE OF INTELLIGENCE REVIEW: 10 January 1968	
5. LOCATION: 20-58-48N 105-46-01E	1
6. DESCRIPTION: A radiocommunication transmitting facility located)
	U
	11
wailed secured control area (A) containing a revetica transmitted with two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling a recular probable personnel bunker, 8 support buildings, and two cooling and two cooling areas (A) and contains a recular probable personnel bunker, 8 support buildings, and two cooling areas (A) and contains a recular probable personnel bunker, 8 support buildings, and two cooling areas (A) and contains a recular probable personnel bunker, 8 support buildings, and two coolings are support bunker, 8 sup	12
ponds. A secured support area (B) is immediately NE of area (A) and contains	١ ،
ponds. A secured support area (B) is immediately its of the control of the contro	14
4 probable barracks, 1 messhall, and 10 support buildings and probably serves as an Sof area (A) contains 2 large bunkered buildings and probably serves as an	15
Sof area (A) contains 2 large bunkered buildings end (A) and consists of diversate control area. The antenna field surrounds area (A) and consists of diversate control area.	16
I we sets of double rhombic antennas in day/night pairs, two double rhombic	17
I wo sets of double rhombic antennas in day/hight parter antennas, and twelve antennas, seven single rhombic antennas, four V type antennas, and twelve	18
rorizontal dipole antennas.	
heat compand radio transmission	10
7 Significance: This is the largest and best equipped radio transmission	20
in any in North Vietnam, and is believed to jointly in Facility is the focal point	21
men's of the government as well as the general policy of National Defense could	22
for international radio communications. The fundamental such overseas areas as	23
use this facility for long range radio comments this type of radio installation would	.24
Communications to Such Steeling for long range radio communications to Such Steeling would communications to Normally this type of radio installation would communications to NVA units	25
n ha used to support low-level tactical ladio comments	
operating in South Vietnam and Laos.	
2 LARGET ENV.RONMENT: Target is about 20 feet above sea level. 5.7	26
2 LARGET ENV.RONMENT: Target is about 20 feet above sea to be a larger of the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated on a flat plain, planted SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated on a flat plain, planted the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated on a flat plain, planted the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated on a flat plain, planted the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated on a flat plain, planted the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated the SW of Ha Nor and 1.25 NM NW of Ha Dong. It is situated the SW of Ha Dong.	d27
M SW of Ha Not and 1.25 NM NW of Ha Dong. It is stillages within 5 NM of the mostly to wetland rice. There are numerous small villages within 5 NM of the mostly to wetland rice. There are numerous small, and streams. The larger	28
raisely to wetland rice. There are numerous small villages with the larger targer. The plain is laced with dikes, ditches, canals, and streams. The larger targer. The plain is laced with dikes, ditches, canals, about 1 NM to the NE, and	29
streams are the NW-SE oriented Song Nhue Giang, about 1 NM to the NE, and	30
Streams are the NW-SE oriented Song Nhue Glang, about 1 NM to the Song Nhue Red River about 7 NM to the NE. A large canal extends SW from the Song Nhue Red River about 7 NM to the NE. A large canal extends SW from the Song Nhue	3 7
Red River about 7 NM to the NE. A large canal extends on the northern leg 15 (mang at Ha Dong. A horseshoe-shaped lake with a dam on the northern leg 15 (mang at Ha Dong. A horseshoe-shaped lake with a dam on the northern leg 15 (mang at Ha Dong. A hout 20 NM to the west, rugged NW-SE	3.
(many at Ha Dong. A horseshoe-shaped lake with a dam west, rugged NW-SE to a'red 4.5 NM ESE of the target. About 20 NM to the west, rugged NW-SE	3
in aird 4.7 NM ESE of the target. About 20 NM to the west, ragget to Ha Not is oriented mountains rise to about 3300 feet above the plain. Access to Ha Not is	5. 2
urieried mountains rise to about to Ha Noi.	3

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BW-2

Tab BW to Annex C to Appendix A

(Revised by 13th Note to Holders)

(Revised by 13th Note to Holders)

Appendix A



	500#	750#	1000#	2000#	
WEAPON	BOMB or	BOMB or	BOMB or	вомв	
Area B	226/25	175/29	142/47	121/121	1
Area D	188/21	91/15	78/26	31/31	2
Area E	236/26	138/23	121/40	64/64	3
Area F	330/37	152/26	125/42	51/51	4
Total	980/109	556/93	466/155	267/267	5
	apons/scrties of uirements show		quired to achie	ve "over	6 7
	1195/133	678/113	568/190	326/326	8
15. PROBABIL	ITY OF ACHIE	ING DESIRED	DAMAGE LEV	EL: 50%	9

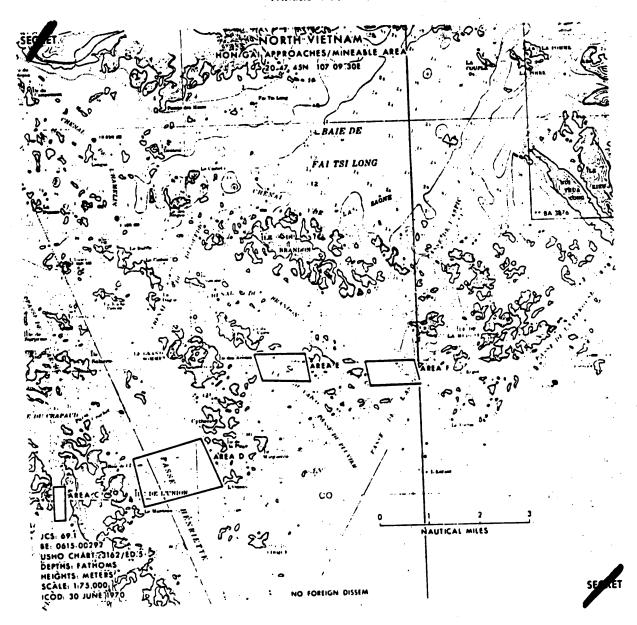
TOP CRET

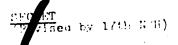
A-C-DA-5 Tab DA to Annex C to (Revised by 9th Note to Holders) Appendix A

673



TAB DAG TO ANNEX C TO APPENDIX A TARGET NO. 09.1





A-C-1.An-1

Tab DAs to Annex C to Appendix A



1. TARGET NUMBER: 69.1	1
2. B.E. NUMBER: 615-0292	2
3. IDENTIFICATION: Hon Gai Approaches/Mineable Area	3
DATE OF INFORMATION: 23 February 1971 DATE OF TISD: 23 February 1971 DATE OF PHOTOCRAPHY: Not Applicable DATE OF INTELLIGENCE REVIEW: 23 February 1971	4 5 7
5. LOCATION: 20-47-45N 107-09-30E (Approximate center of Area DELTA - the primary channel), 10.5 NM SE of maritime port of Hon Gai.	8 9
6. DESCRIPTION: The four primary mining areas which control deepwater access routes to Hon Gai Port have been delineated.	10 11
a. Area DELTA, (1.0 x 1.2 NM), lies in Passe Henriette, E of lie De L'union. Depths vary from 28' to 60'.	12 13
b. Area CHARLIE, (0.7 x 0.3 NM), lies in Passe, Profonde, W of the De Liunion. Lenths range from 78' to 90'.	14 15
Area ECHO, (0.5 x 1.0 NM), lies along the southern portion of lause du Vaico, where it merges with Passe Du Pluvier. Depths vary from the het.	16 17 18
Area FOXTROT (0.5 x 1.0 NM), lies along Passe De L'aspic, E	19 20
e. Fidal rises: 4.6' MLLW, 12.3' above datum at MHHW. Currents	55 57
7. SIGNIFICANCE: These mineable areas control the 4 deepwater test routes to Hon Gai port and naval base. The Hon Gai port littly in the alternate NVN commercial port nearest to Haiphong. One dai Naval Base Bai Chay is headquarters of the Northern Fleet. One dai Naval Base Bai Chay is headquarters of the Northern Fleet. One dai Naval Base for navy patrol craft and as a POL and torpedo line settler point for naval vessels anchored in the Cac Ba Island	23 24 25 26 27 28 29
TARGET ENVIRONMENT: Four primary mineable areas located interpretation of the primary mineable areas located interpretation of the passe theoretic of which islands. Area DELTA located in Passe Henriette on Whide of the L'union and 1-2 NM SSE of Hon Gai; area is on E side of the Gai Charles located 10 NM SSE of Hon Gai; area is on E side of the Gai Charles area is on E side of the Gai Charles (max. elev. 1,086') and Whister of the Delivation (max. elev. 1,086'). Area ECHO located 10 NM SE of Hon Gai, 1 NM E of the Destruction, and 2 NM S of the du Brandon (max. elev. 564'). Area FOXTROT located 11.5 NM SE of Hon Gai, 2 NM SE of the du Brandon, 3 NM E of the Arenes, and 2 NM Who of the de la Meduse (max. elev. 584').	30.12 333 355 356 36 39



9. DEFENSE ENVIRONMENT:	1
a. The target is within the SAM envelope.	2 .
b. AAA activity has been identified within 3 NM of the target.	, 3
c. HMG and small arms fire is anticipated.	4
10. DAMAGE OBJECTIVE: Interdict NVN naval craft and coastal vessels; restrict deepwater access to Hon Gai port and naval base complex.	5 7
11. EFFECT ON NVN: Deterioration of support capability to northern fleet area, a major reduction in capability to export coal, and consequent loss of foreign exchange credits.	8 9 10
12. RECUPERABILITY: At present, NVN has only very limited minesweep capability.	11 12
13. COLLATERAL DAMAGE: Possible damage to fishing craft transiting the area.	13 14
14. RECOMMENDED WEAPONS (MINEABLE AREAS):	15
Over Target	16
MK 52 MK 55	17
111 111	18
15. PROBABILITY OF MODERATE DAMAGE TO A SINGLE SHIP TRANSITING THE	19 20



A-C-DAa-3
(Revised by 17th Note to Holders)

Tab DAs to Annex C to Appendix A

TAB DB TO ANNEX C TO APPENDIX A

TARGET NO. 70



607



1. TARGET NUMBER: 70	1
2. BE NUMBERS: 616-0004 - Hai Phong Port Facilities 616-0054 - Hai Phong Ship Repair Yard No. 3, Sauvage 616-0671 - Hai Phong Shipyard No. 4, Dancette 616-0672 - Hai Phong Ship Repair Yard No. 1 616-0673 - Hai Phong Ship Repair Yard No. 1 616-2140 - Hai Phong Shipyard North 616-2088 - Hai Phong Shipyard North	23456789011
3. IDENTIFICATION: Hai Phong Port Complex	12
4. DATE OF INFORMATION: 6 March 1968 DATE OF TIS: 25 April 1968 DATE OF PHOTOGRAPHY: 4 October 1967 DATE OF INTELLIGENCE REVIEW: 7 March 1968	13 14 15 16
5. LOCATION: 20-51-37N 106-41-08E (Central reference point only - Not an individual BE number coordinate).	17 18
6. DESCRIPTION: The Hai Phong Port Complex is composed of six shipyards, a naval base, and the port facilities themselves. The following intelligence information pertains to areas (with 3 sub-areas):	19 20 21 22
a. Areas E-1, E-2, and E-3 are covered storage sites within the Hai Phong Port Facilities. Area E-1 contains 4 warehouses with approximately 100,000 sq. ft. gross floor area; Area E-2 contains 5 warehouses with over 200,000 sq. ft.; Area E-3 contains about 30,000 cu. ft. of refrigerated storage. Area E-4 Hospital wharf area, in addition to offloading imports, is used extensively for transshipping cargo into coasters, barges, and junks. An additional deep-draft wharf is under construction in this area. Most of the warehouses are of steel frame construction with concrete walls and floors and galvanized sheet steel roofs. Adjacent to the delineated target areas are 4,370 linear feet of offshore wharfage; a single meter-gage rail line and several two-lane roads clear the port area.	2245678990123455
b. Area F is the Hai Phong Ship Repair Yard No. 1 (BE No. 616-0672). Facilities here include 3 marine railways, a transverser and 34 support buildings.	36 37 38
c. Area D lies within the Hai Phong Maval Base (BE No. 616-0004). Its facilities include a repair yard with a graving dock 160 ft. long, a small marine railway, a repair yard, 8 small shops; a 2-story school building; 4 barracks, 3 of which are 2 stories; 9 warehouses; 5 supply/support buildings; 9 unidentified buildings; and berthing facilities. Most of the buildings are of concrete construction, some have tile roofs, and some have corrugated sheet steel roofs.	340123456 44456



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-DB-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tub DB to Annex C to Appendix A

- d. Area C is Hai Phong Shipyard No. 4, Dancette (BE No. 616-0671. The machine shop section, Area C-1, includes five large fabrication/machine shop buildings, the largest approximately 400 ft. long. The yard has four marine railways and a graving dock with an overall length about 210 ft., and 23 support buildings.
- e. Area A is the Hai Phong Ship Repair Yard No. 2, S.A.C.R.I.C. (BE NO. 616-0673) which contains two graving docks, the largest 175 ft. long, one side-launch building way about 320 ft. long, 17 fabrication and machine shops, and 16 support buildings.
- f. Area B is the Hai Phong Ship Repair Yard No. 3, Sauvage (BE No. 616-0054) which includes 4 graving docks, the largest about 150 ft. long; two marine railways; and 40 support buildings.
- g. Area G is the Hai Phong Shipyard North (BE No. 616-2140) which contains two graving docks, each about 155 ft. long, and 3 support buildings.
- h. Area H is the Hai Phong Shipyard West (BE No. 616-2088) which contains 2 graving docks 200 ft. long, 2 building ways, and 14 support buildings.
- 7. SIGNIFICANCE: Hai Phong port handles about 80% of all NVN maritime shipping, including 95% of POL receipts. Its military port capacity is estimated at 3,800 short tons per 20-hour work day. Hai Phong is the main repair base and principal source of logistic support for the North Vietnam naval forces. It is the only NVN Naval Base with a graving dock capable of drydocking the SO 1 class subchaser, the largest unit in the North Vietnam Naval Order of Battle. It is used as a in the North Vietnam Naval Order of Battle. It is used as a lease by submarine chasers, motor gunboats and fast patrol boats attached to the northern fleet. The naval school there trains officer candidates and enlisted specialists. The ship repair facilities located in Hai Phong are the most important in the country. Yards 1 thru 3 fabricate and repair tugs, lighters, fishing, and coastal vessels. Shipyard 4 (Area C) is the most important in Hai Phong. It assembles barges in addition to the craft types mentioned above. Hai Phong Shipyards North and West also have minor repair facilities. The Hai Phong Port Complex as a whole encompasses a highly significant portion of the NVN maritime sector.
 - 8. TARGET ENVIRONMENT: Target near sea level, about 10 NM NW of Gulf of Tonkin. Target, at north edge of Hai Phong, is along the south bank of the SE-flowing Cua Cam (river). The city is on a broad, flat, plain intensively cultivated in wetland rice. The plain contains NW-SE oriented meandering streams and randomly oriented, interconnecting distributaries and canals; most waterways are contained by levees. Roads converge on city from all directions; principal road and rail line enter city from the NW, about 0.5 NM west of target and lead to the target area. Stadium and amphitheater 1 NM south of target are easily distinguishable. Industries lining south bank of Cua Cam are backed by residential areas. North side of river lined by mudflats. Numerous small areas. North side of river lined by mudflats. Numerous small piers and thousands of feet of quayed canal sides and retaining walls exist along river near the port, mostly on the Song Tram walls exist along river near the port, mostly on the Song Tram and small craft as alternate landing facilities for transfer of cargo from deep water vessels. The closest alternate naval facility is Hon Gai/Bai Chay.



(REVISED BY 14TH NOTE TO HOLDERS)

Tab DB to Annex C to Appendix A 9 10 11

> 2745678901274567890 22222222377777779

> > 123456789012345678



9. DEFENSE ENVIRONMENT:	1
a. The target is within the SAM envelope.	2
b. AAA activity has been identified within 3 NM of the target.	3 4
c. HMG and small arms fire is anticipated.	5
10. DAMAGE OBJECTIVE: Damage level for Hai Phong Port Complets 30% throughout target areas. Damage criteria for individual areas are as follows:	ex 6 7 8
a. Areas E-1, E-2, E-3, and E-4: Disruption of port Cargo-nandling operations thru structural damage to warehouses, and transit sheds with accompanying damage to other port facilities, and the sinking of cargo ships.	9 10 11 12
b. Area D: Criterion is deterioration of NVN naval/logistic/repair capability thru structural damage to supply/support buildings and repair facilities with accompanying damage to naval units undergoing repair in the graving dock, marine railway, and repair yard.	17
c. Areas F, C, A, B, and H. Disruption of repair activ thru damage to marine railways and graving docks with accompanyi damage to machinery, equipment, and power facilities.	rity 18 ing 19 20
11. EFFECT ON NVN: Reduction of port facilities will significantly capability of NVN to accommodate deep-draft vessels along side and consequently create severe delays and handling problems by forcing the use of lightering cargo ashore. International shipping would be discouraged from visiting the port and maritime receipts would be significantly reduced. The North Vietnamese Navy would suffer a severe reduction in support/repair capability and resultant deterioration of coastal patrol and commodatant capability. Damage to ship construction and repair yards would deprive NVN of a significant portion of this indust and compound problems created by the destruction of port and naffacilities.	22 23 24 25 26 27 28 29
12. RECUPERABILITY:	33
a. Areas E-1, E-2, E-3, E-4: (Based on 30% damage to s facilities and 15% accompanying damage to wharfage.)	torage 34 35
Damage assessment: 7 days	36
Debris clearance and procurement of repair material: 3 days	37 38
Temporary repairs to wharfage: 12 days	40
Temporary repair to covered storage: 6 days	41
Total time required for restoration of former port cargo-handling and storage capacity: 28 days	मूम 1 3 1 5



A-C-DB-4 (REVISED BY 14TH NOTE TO HOLDERS) Tub DB to Annex C to Appendix A



					es salvage acity. The Soviet Un					1234
\1111 10	b	Area D								5
	-			ssment:			1 day			6
		Cleari		bris and	procurem	ent	2 days	· •		7
		Repair app	of w	harves, es and b	including	•	6 days	<u>.</u>		9 10
	Tota	nave	ıl ber	ration o thing ar pability	of alongsind light	.de	9 days	B		11 12 13
	Note	: Na	val cı	aft repl	Lacement 1	Indefinit	e.			14
years (c. chine sly li depen	Areas shops imit n dent o	F, C, gravormal n the	A, B, () ring doc! repair; amount	G, and H: ks, and may yard capal of Sino/So on. Light uced rate	Damage arine rai bility for oviet Blotter produced to the control of the control	to fabi lways or one	to two		15 16 17 18 19 20
_		LATERA								21
13					rrounding	area.		·		22
	b.			ation		. с	asualti	es*		23
	- •		-		t Area	Target	Area	Adjacen	it Area	24
	• *	aige.		Mil	C1V	Mil	Civ	Mil	Civ	25
	_	250			9700	15	228	14	97	26
					d under de		lert c	ondition	s.	27
- 1					ND SORTIE					28
areas deline been	(wit	This h sub-	is a areas reapon or eac	large p). One s applic h area.	ort complares and ation. We to show cribed, talso show	ex and in 10 sub-and capons and the effont total wear	nd sort	ies have	1	29 30 31 32 33 34
_		(1)	Tn or	der to a	chieve a r target:	damage 1	evel of	e 30%,		35 36

SEC .ET

A-C-Db-5 (REVISED BY 14TH NOTE TO HOLDERS) Tab DB to Annex C to Appendix A



WEAPON	500# Snakeye	750# BOMB	2
Area A-1 (200 x 500)	14/2	17/3	3
Area A-2 (350 x 450)	21/2	19/3	4
Area B-1 (200 x 2300)	43/5	55/9	5
Area C-1 (600 x 900)	157/17	89/15	6 !
Area D-1 (200 x 1650)	135/15	190/32	7
Area E-1 (550 x 1150)	67/7	41/7	8
Area E-2 (300 x 1900)	62/7	46/8	9
Area E-3 (250 x 600)	20/2	20/3	10
Area F-1 (300 x 1150)	39/4	30/5	11
Area G-1 (250 x 300)	13/1	14/2	12
Area H (450 x 750)	38/4	30/5	13
Totals	609/66	551/92	14
(2) Weapons/ achieve "over target" re	sorties operation	onally required to above:	15 16
•	730/81	660/110	17
(3) In order weapons/sorties required	r to achieve a de	amage level of 70%,	18 19
WEAPON	500# Snakeye	750# BOMB	20 21
Area A-1	48/5	58,/10	22
Area A-2	71/8	64/11	23
Area B-1	145/16	186/31	24
Area C-1	540/60	300/50	25
Area D-1	455/51	640/107	26
Area E-1	226/25	138/23	27
Ares E-2	209/26	155/26	28
Area E-3	68/8	68/11	29
Area F-1	132/15	101/17	30
Area G-1	44/5	48/8	31
Area H	128/14	101/17	32
Totals	2066/230	1859/311	33

A-C-DB-6 (REVISED BY 14TH NOTE TO HOLDERS)

Tab DE to Annex C to Appendir A



(4) Weapons/sorties operationally required to achieve "over target" requirements shown above:

2479/275

2231/372

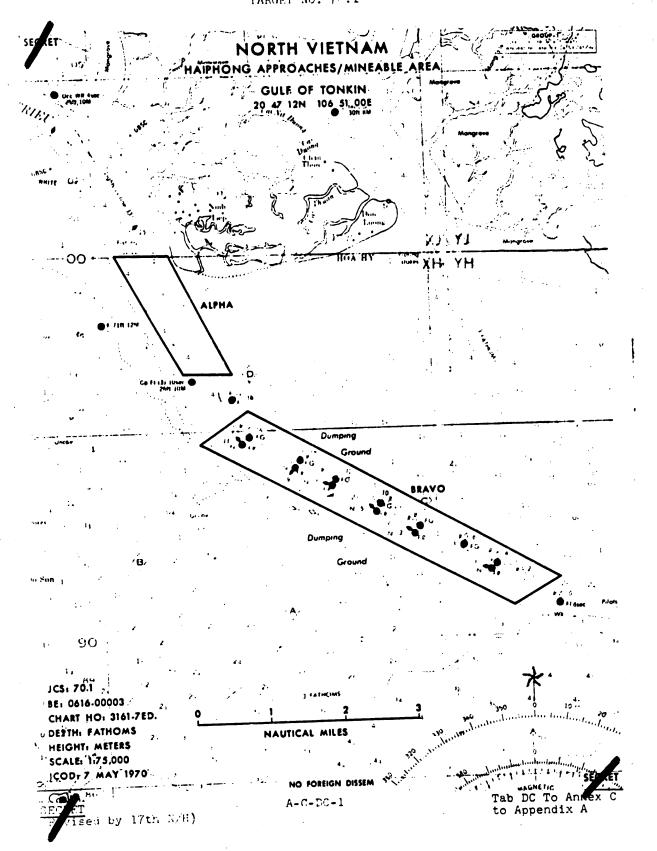
3

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%

SE RET

A-C-DE-7 (REVISED BY 14TH NOTE TO HOLDERS) Tab DB to Annex C to Appendix A

TAB DC TO ANHEX C TO APPENDIX A TARGET NO. 70.1





1.	TARGET NUMBER: 70.1	1
2.	BE NUMBER: 616-0003	2
3.	IDENTIFICATION: Hai Phong Mineable Area Gulf of Tonkin	3
4.	DATE OF INFORMATION: 22 February 1971 DATE OF TIS: 23 February 1971 DATE OF PHOTOGRAPHY: Not Applicable DATE OF INTELLIGENCE REVIEW: 22 February 1971	4 5 7
5.	LOCATION: 20-1:7-12N 106-51-00E.	8
through the control of the control o	DESCRIPTION: The approach to Hai Phong from the Gulf of Tonkin is a dredged channel across the outer bar of the Cua Nam Trieu ON 106-56-40E) about 18 NM from the port. Channel 200 to 250 e, about 5 NM long and normally dredged to 19.5 feet at chart The lack of dredging has allowed silting to reduce channel depth to ately 11 feet at chart datum. Depths increase to 30-50 feet he bar and channel width increases to about 2000 feet as far Maritime, 4 NM from the port. The Canal, which is a land cut about long through Ile de Dinh Vu, is 500 feet wide and is normally to 19.5 feet at chart datum over a width of 295 feet. Depth on the port has a width of 330 feet and a depth of about at chart datum. The tidal rise at Hai Phong is 9.1 feet at the water and 6.8 feet at minimum high water.	12 13 14 15
a.	Area Alpha (2.0 NM x 0.75 NM) encompasses the main channel just the dredged bar. Central depths range from 30 to 50 feet.	23 24
Ն.	Area Bravo (4.5 NM x 0.75 NM) is located just southeastward Alpha, along the dredged channel. Central depths in area re 15' of chart datum with perimeter depths ranging from 3' to	25 26 27 28
entered	SIGNIFICANCE: The mineable areas control the deep draft access to of Hai Phong. About 99% of the seaborne imports in 1970 through the port of Hai Phong. This represents 90% of the 's total imports. In addition, there is extensive coasting, and small craft traffic and frequent transits of naval vessels.	29 30 31 32 33
8. Enannel Immedia covered Target	TARGET ENVIRONMENT: Target area located in the NNW-SSE-trending of the Cua Nam Trieu (river mouth) about 10.4 NM ESE of Hai Phong. tely NE of target area is a large, low island; southern half by mangrove, northern half intensively cultivated in wetland rice. area flanked on E and W by foreshore mud and sand flats which 1 to 3 feet at low water. Lighthouse located about 1.8 NM SSE et area in Gulf of Tonkin. Many fishing stakes in vicinity of	34 35 36 37 38 39 40
9.	DEFENSE ENVIRONMENT:	42
	a. The target is within the SAM envelope.	43
	b. AAA activity has been identified within 3 NM of the target.	44
	c. HMG and small arms fire is anticipated.	45



SEC ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-C-DC-2
(Revised by 17th Note to Holders)

Tab DC to Annex C to Appendix A



	D. DAMAGE OBJECTIVE: Interdict NVN naval craft and to discourage soing ships from entering the deep water port.	2
dimini:	L. EFFECT ON NVN: Denial of these port facilities will greatly she seaborne imports into NVN and significantly reduce the country's to continue support to the PL/VC. Foreign flags serving NVN trisk endangering their ships in furtherance of commercial	34 56 7
	2. RECUPERABILITY: At present, the NVN has only very limited mine-capability.	8 9
area.	3. COLLATERAL DAMAGE: Possible damage to fishing craft transiting	10 11
1	4. RECOMMENDED WEAPONS (MINEABLE AREAS)	12
Field	MK 50 MK 52	13
Area A	0 12	14
Area P	16 4	15
	9. PROBABILITY OF MODERATE DAMAGE TO A SINGLE SHIP TRANSITING NEFTELD AREA (ALL FIELDS COMBINED): 30%	16

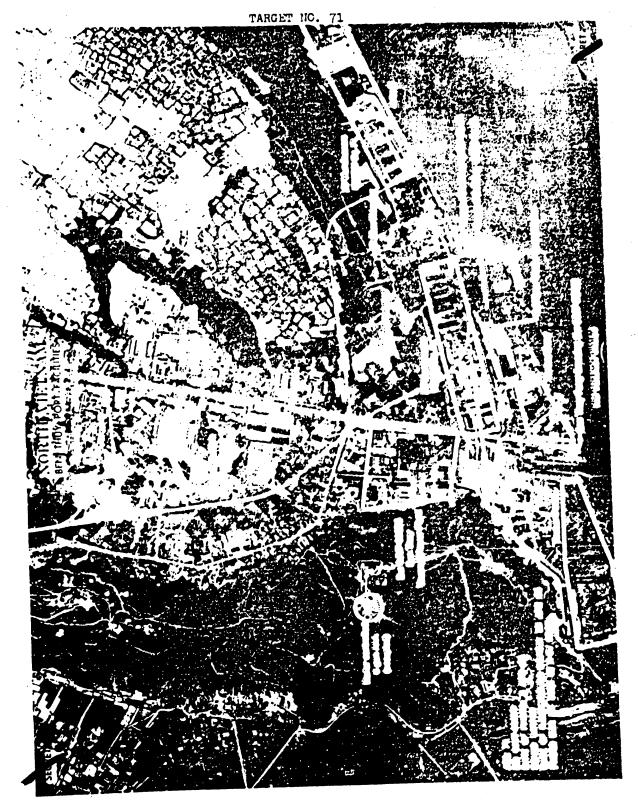
SFRET NO FOREIGN DISSEM

M A-C-DC-3 (Revised by 17th Note to Holders)

Tab DC to Annex C to Appendix A



TAB DD TO ANNEX C TO APPENDIX A



TOP CRET

Tab DD to Arnex C to Appendix A



1. TARGET NUMBER: 71	1
2. BE NUMBER: 617-0038	2
3. IDENTIFICATION: Ben Thuy Coastal Transhipment Point	3
4. DATE OF INFORMATION: 3 March 1965 DATE OF TJS: 8 March 1965	4 5
5. <u>LOCATION</u> : 18 38 52N/105 42 39E (WF 749619)	6
6. DESCRIPTION: Military port capacity estimated at 600 long tons of general cargo per day (20 effective working hours). Facilities include: 1 principal offshore harf with twin approaches; of wooden decking on braced timber piles; 500 ft. long by 33 ft. wide; 15 ft. alongside at chart datum: 2 general storage areas; southern of which consists of 4 concrete construction transit sheds and 19 other variously constructed buildings with total 130,050 sq ft storage area, northern arealas 15 various-construction buildings providing an estimated 103,075 sq ft covered storage area; open bulk storage areas located throughout port. Single meter-gage rail line now under construction will clear port area to Vinh on completion of 2 remaining rail bridges; principal highway (Route 1) transits port area; ferry crossing of Song Ca. 1/4 mile upstream from wharf: no mechanical handling facilities. The port is located about 10 miles up the Song ca River. A bar extends about 1/2 mile off the mouth of the river. A bar extends about 1/2 mile off the mouth of the river. It is of hard sand and subject to frequent change. A channel ft at MHHW). The width of the channel is not known. Inside ft at MHHW). The width of the channel is not known. Inside the bar, the river is 1,000 ft to 1/2 mile wide with the fairway width generally about 400 ft wide as far as Ben Thuy. Central depths in the river are 12 to 30 ft. At Ben Thuy. Central depths in the river are 12 to 30 ft. At Ben Thuy. Central depths in the river are 12 to 30 ft. At Ben Thuy. The wide has a same and a set of a to the river and the river are 6.8 ft at mean least 15 feet. Tidal rises in the river are 6.8 ft at mean least 15 feet. Tidal rises in the river and the ebl shours and the ebl shours. With small tides there is no flood current. During hours. With small tides there is no flood current. During periods of high river from rains (mostly May-September) the currents can be very strong.	78 9011234567890123456782333333333333333333333333333333333333
Vinh industrial and military also also port of any significance in southern DRV.	40 41
8. TARGET ENVIRONMENT: Center of target about 10 ft. above sea level, 0.5 Mi. E. of Ben Thuy and 2.7 mile SE of the center of Vinh. Target, 6.4 miles WSW of coast, is on NW side of meandering, NE-flowing Song Ca (river). Area is flat plain intensively cultivated in wetland rice and containing many small villages. Grass-covered hillock reaches 335 ft. above sea level 0.6 mile SW of target; reaches, grass and scrub-covered, reached 460 ft above sea another, grass and scrub-covered, reached 460 ft above sea level 1.4 mile SSE of target. N edge of N-S ridge 2.2 mile SE of target. SW tip of large island in Song Ca 0.5 mile NE of target center. Small stream, meandering to SE empties in Song Ca 0.7 mile SW of target. There are a few small piers at Ben Thuy usable only by small craft. Vinh Petroleum	444456789901234 444444555555555555555555555555555555



A-C-DD-2

Tab DD to Annex C to Appendix A

(Revised by 10th Note to Holders)



oducts Storage (BE No. 617-0182) is located 1.3 miles whatream. Phuc Loi Naval Base (BE No. 617-0697) is about miles downstream, and a new T-head pier has been completed the mouth of the Song Ca, targeted as Hai Yen Porticility (BE No. 617-0781).	1 2 3 4 5
9. <u>DEFENSE ENVIRONMENT</u> :	6
27mm guns (30 Jan 1965). There also are 12 inactive	7 8 9 10 11 12
b. Two independent infantry regiments are located in the immediate vicinity of Vinh (1 Jan 1965). Prepared AW positions are in troop areas.	13 14 15
c. Within a 15 NM radius of 18-40N 105-40E, are located the following radar:	16 17
(1) 2 FIRECAN	18
(2) 1 SCR-584	19
(3) 1 KNIFEREST B	20
(4) 1 RUS-2	21
(5) 1 SCR-270	22
10. DAMAGE OBJECTIVE: Reduce port's overall capability by attack on facilities in the general wharf area and/or derial mining of the approaches. Damage criterion is structural damage to buildings and damage to storage areas. Damage level is 30 percent. Mine the river approaches to interdict shallow draft river and coastal traffic.	23 24 25 26 27 28
11. EFFECT ON DRV: Reduction of maritime and coastal cargo movement into/from southern DRV and proportional disruption of DRV logistic support to Viet Cong forces via both land and sea.	29 30 31 32
12. RECUPERABILITY: Lumber is locally available; large saw mill located about 0.3 miles SW of wharf. Recuperability time is as follows:	33 34 35
a. Damage assessment: 1 day	36
b. Clearing debris and procurement 2 days	37 38
of timber: c. Repair of whar including 3 days	39 40
approaches Total: 5 days	41
Note: The above estimate applies only to estimated 30% damage to the wharf and does not include consideration of destroyed storage buildings or goods in open storage.	42 43 44
13. COLLATERAL DAMAGE: Insignificant.	45
14. HECOMMENDED WEAPONS AND SORTIES:	46

TOP EURET

A-C-DD-3

Tab DD to Annex C to Appendix A

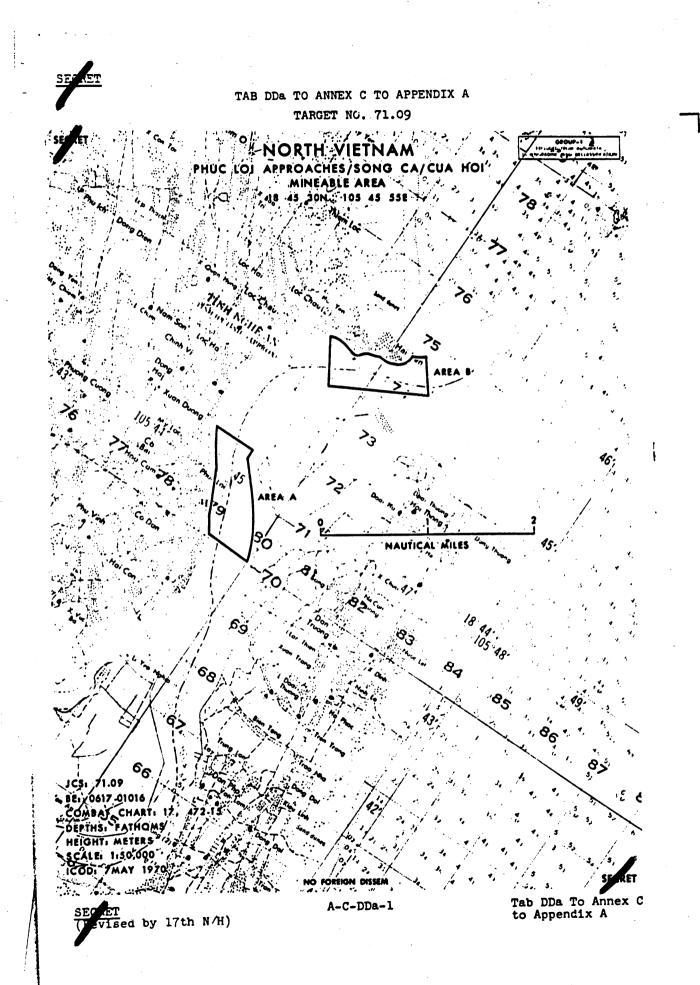


a. This is a large target complex comprised of two areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.					
(1) In order to achieve a damage level of 30%, weapons/scrties required over target:					
Weapon:	250# SNAKEYE or	250# BOMB or	500# <u>BUMB</u> or	750# POMB	
Area A	134/11	177/15	91/10	54/9	8
Area B	164/14	222/18	114/13	67/11	9
Totals:	299/25	399/33	205/23	121/20	10
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:					
	365/30	487/40	250/28	148/24	13
(3) In order to achieve a damage level of 70%, weapons/sorties required over target:					
Weapon:	250# SNAKEYE or	250# BOMB or	500# BOMB or	750# BCNB	
Area A	452/38	596/50	307/34	182/30	16
Area B	556/46	748/62	384/43	226/38	17
Totals:	1008/84	1344/112	691/77	408/68	18
(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:					
	1229/102	1639/137	843/94	498/83	21
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%					



A-C-DD-4

Tab DD to Annex C to Appendix A





1. TARGET NUMBER: 71.09	1
2. BE NUMBER: 617-1016	2
3. IDENTIFICATION: Phuc Loi Approaches/Song Ca/Cua Hoi Mineable Area	3
4. DATE OF INFORMATION: 23 February 1971 DATE OF TISD: 23 February 1971 DATE OF PHOTOGRAPHY: Not Applicable DATE OF INTELLIGENCE REVIEW: 23 February 1971	5 7 8
5. LOCATION: 18-45-30N 105-45-55E, located 7 NM NE (13 km) of Vinh.	9 10
6. DESCRIPTION: Two areas which control access to the Song Ca (River) and Ben Thuy Coastal Transshipment Point (BE 617-0038) have been selected.	11 12 13
a. Area ALPHA is located approximately 2 NM up river from the mouth of the Song Ca, and measures 1.0 NM x 0.4 NM; (shore to shore) at Phuc Loi. Central depths average about 20'.	14 15 16
b. Area BRAVO is located at the mouth of the Song Ca across the pier of Hai Yen Port Facilities (BE 617-0781). It is 1.0 NM (1.9 km) long, 0.3 NM (0.6 m) wide with central depths generally ranging from 12' (3.7 m) to 33' (10.3 m). The bottom is mud and sand.	17 18 19 20
c. Tidal rises are 6.8' (2.1 m) above datum at MHHW and 2' (6.6 m) at MLLW. Currents can be very strong during periods of high river (May-September).	21 22 23
7. SIGNIFICANCE: These mineable areas lie athwart the channel leading to the Ben Thuy Coastal Transshipment Point (BE 617-0038, ICS target NO. 71), associated transshipment points, which serve the important Vinh military and industrial area.	21; 25 26 27
TARGET ENVIRONMENT: The Song Ca flows generally NE across a low coastal plain. The plain is about 20' (4.6 m) above sea level and centains long beach ridges approximately 6' (1.8 m) high and 1,000' (1.00 m) apart which parallel the coastline. Nearly all of the plain is covered with wetland rice except the ridge crests which are occupied by trees and villages.	31 32 33
9. DEFENSE ENVIRONMENT:	34
a. The target is within the SAM envelope.	35
b. AAA activity has been identified within 3 NM of the target.	36
c. HMG and small arms fire is anticipated.	37
10. DAMAGE OBJECTIVE: Interdict NVN coastal cargo vessels and naval craft; restrict use of the port and naval facilities located along the Song Ca.	38 39 40



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-C-DDa-2 (Revised by 17th Note of Holders)

Tab DDa to Annex C to Appendix A



11. EFFECT ON NVN: Reduction in coastal transport capability to southern NVN with consequent deterioration of NVN capability to support the Viet Cong insurgency.	1 2 3
12. RECUPERABILITY: At present, NVN has only a very limited minesweep capability.	4 5
13. COLLATERAL DAMAGE: Possible damage to fishing craft transiting the area.	6 7
14. RECOMMENDED WEAPONS (MINEABLE AREAS):	8
MK-36-1 MK-50	9
30 12	10
15. PROBABILITY OF MODERATE DAMAGE TO A SINGLE SHIP TRANSITING THE MINEFIELD AREA (ALL FIELDS COMBINED): 30%	11 12

SECRET

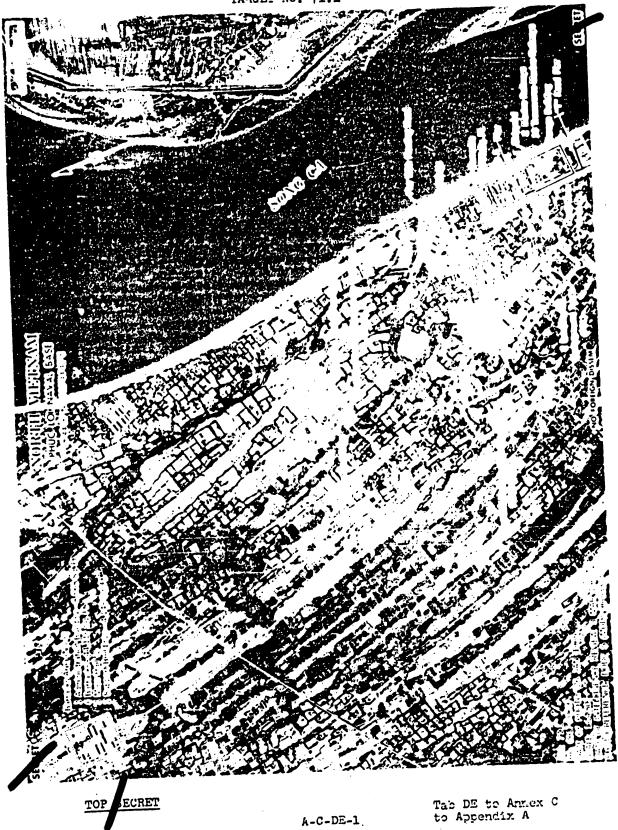
A-C-DDa-3 (Revised by 17th Note to Holders)

Tab DDa to Annex C to Appendix A



TAB DE TO ANNEX C TO APPENDIX A

TARGET NO. 71.1



1. TARGET NUMBER: 71.1	1
2. BE NUMBER: 617-0697	2
3. IDENTIFICATION: Phuc Loi Naval Base	3
4. DATE OF INFORMATION: 1. July 1966 DATE OF TIS: 24 May 1965	4 5
5. LOCATION: 18-43-44N/105-44-49E, UTM WF 787704	6
6. DESCRIPTION: Located 2! NM inland from the mouth of the song Ca, Phuc LoI is designed to provide berthing, logistic support, and repair facilities for DRVN coastal patrol craft. It comprises four separate areas, the first of which is located on the shore of the Song Ca. This area contains one I-head pier, 170 feet long with a 320-foot approach, another pier 380 feet long with a 70-foot floating head, and a third pier approximately 325 feet long with a double L-head with pier approximately 325 feet long with a double L-head with runways of about 50 feet extending upstream. The latter pier is apparently designed to service construction vessels; the two former piers are used primarily for naval craft. Adjacent to the floating head pier is a small boat repair yard containing four quonset-type shop buildings and one probable taining four quonset-type shop buildings and one probable administration building. South of the small boat repair yard administration building. South of the small boat repair yard is an area containing an administrative buildings, and two workshops. barracks, fourteen support buildings, and two workshops. Within this area is a twin tracked marine railway with trans within this area is a twin tracked marine railway with trans wersing facilities designed to accommodate as many as six patrol craft. Since construction activity is still in evidence, this facility may not as yet be operational. A second area, one NM west, contains two semi-buried POL stora second area, one NM west, contains two semi-buried POL stora tanks, an administrative building, mess hall and barracks. The third area, an additional NM northwest of the POL site, The third area, an additional NM northwest of the POL site, third area, an additional NM northwest of the POL site, areas are connected by hard-surfaced roads approximately 15 areas are connec	901121345678901233456789012334
7. SIGNIFICANCE: Its location on the Song Ca and its support facilities, both existent and under construction. provide Phuc Loi with an increased capability of supporting to 8 additional patrol craft.	
8. TARGET ENVIRONMENT: Ben Thuy Port Facilities (617-00 JCS Tgt. No. 71), located about d NM south, provides 500 fe of wharfage, POL storage (Vinh Petroleum Products Storage, 617-0182-JCS Tgt. No. 50), and quick access to Vinh, for which Ben Thuy is the port city.	38- 39 et 40 41 42 43
9. DEFENSE ENVIRONMENT:	• •
a. Fifteen SAM sites have been identified within SAmissile range (17.5 NM) of the target, and 5 additional SAM sites have been identified 18-30 NM distant.	47
b. There are no identified AAA sites within 3 NM of target. However, there are 27 active sites within the Phong AAA Complex. (DOI: 20 July 1965 - 10 April 1966	50
c. Moderate to intense HMG and small arms fire is anticipated throughout the Hei Phong Arca.	51. 52
TOP SECRET A-C-DE-2 Tab 1	DE to x C to ndix A

(Revised by 9th Note to Holders)

10. DANAGE OBJECT supporting and repair building undergoing repairs located within the is 30 percent to be	airing "Swa s structura gs with acc at marine coutlined t	tow" class 1 damage to companying of railway fa	motor gun o storage, damage to g cilities wh	boats. support, gun boats nich are	1234567	
11. EFFECT ON DE southern and centr	Reducti	on in supp istal defen	ort capabil se effort.	lity to	8 9	
12. RECUPERABILI sawmill located as ability time is as	out 0.3 mi	is locall les southwe	y available st of whar	e; large f. Recuper-	10 11 12	
a. Damage at	ssessment		1 day	·	-13	
b. Clearing procure	debris and ment of time	ber	2 days		14 15	
c. Repair o approac	f wharves in hes and bui	ncluding ldings	4 days		16 17	
		TOTAL:	7 days		18	
13. COLLATERAL	DAMAGE: Po	ssible min	or to adjac	ent dwellings.	19	
14. RECOMMENDED	WEAPONS AN	D SORTIES:	(Naval Bas	e Area)	20	
a. This is a target complex comprised of two areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.						
(1) In (order to act	nieve a dam red over ta	age level rget:	of 30%,	26 27	
	25C# SNAKEYE or	250# <u>BOMB</u> or	500# B0MB or	750# BOMB	28	
Area A	167/14	214/18	110/12	65/11		
Area B	55/5	97/8	39/4	19/3	29	
Totals:	222/19	311/26	149/16	84/14	30	
(2) Wea	pons/sortie et" require	s operation ment shown	nally requi above:	red to achieve		
		270/22	182/20	102/17	33	

A-C-DE-3
Tab DE to
Annex C to
Appendix A

(Revised by 9th Note to Holders)

TOP SECRET

	(3) In order to achieve a damage level of 70%, weapons/sorties required over target:						
	Weapon:	250# SNAKEYE or	250# BOMB	500# or <u>BOMB</u> o	750# BOMB		
	Area A	564/47	722/60	371/41	220/37	3	
	Area B	186/16	327/27	132/15	64/10	4	
	Totals:	750/63	1049/87	503/56	284/47	5	
	(4) Weapons/sorties operationally required to achieve "over target" requirement shown above:						
		915/77	1279/106	613/68	346/57	8	
15.	PROBABILIT	Y OF ACHIEVING	DESTRED D	AMAGE LEVEL:	50%	9	

TOP ECRET

A-C-DE-4

Tab DE to Annex C to Appendix A

(Revised by 7th Note to Holders)

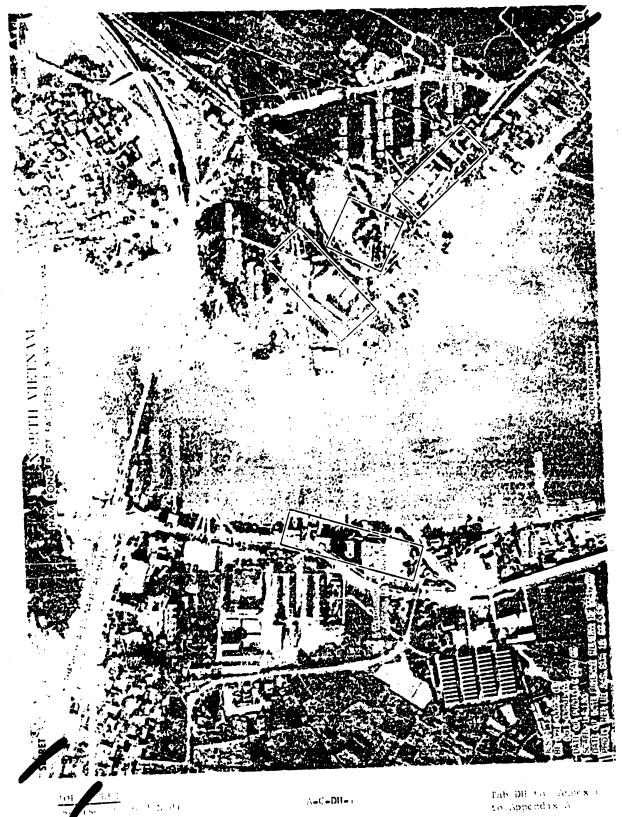


TABLE INCOMERCIA AND STRIKE DATA

1. TARGET NUMBER: 71.13	1
2. <u>BE NUMBER</u> : 617-0774 (E) 617-0501 (W)	2 3
3. IDENTIFICATION: Ham Bong Fort Facilities E and W on Song Ma	4 5
4. DATE OF INPORMATION: 27 April 1909 DATE OF TID: 1 May 1909	6
5. INCATION: 19-50-03N 105-47-55E (4G 8:49:30)	8

- 6. DESCRIPTION: Port facilities, located on the eastand west banks of the Song Ma at Ham Room are accessible to craft with drafts to 8 ft. Facilities concentrated on the east bank immediately downstream from the Thanh Hoa RR and Hwy Bridge (JCS Tgt #1h) include approximately 21 warehouse-type buildings providing about 39,850 sq. ft. of floor space and approximately 6.5 acres of open storage. Landing facilities consist of 3 piers providing approximately 150 ft. of wharfage, a crane, neveral landings, and an estimated 1.500 ft. of riverbank suitable for carry transfer. The east-bank port area is cleared by rail and road to the major transportation nets. racilities on the west bank handle mainly bulk cargo and consist of three small piers, two of which are equipped with bulk loaders several landing ramps, a marine railway, and 2 or 3 portable conveyors or loaders. Covered storage is available in approximately 15 warehouse-type but ldings providing approximately 37,050 sq. ft. of floor space; 5.5 acres suitable for stacking or bulk storage are available in and around the port area. Riverbank suitable for cargo transfer totals 2,500 ft. in the port area; additional riverpank suitable for cargo transfer is available down...tream. shippard for small craft equipped with several marine rullways and support buildings is located on the west ban. It NM downstream of the port area.
- 7. SIGNIFICANCE: Port facilities serve the final idea area. Situated astride the principal north-booth call and road nets, the port is an important transchipment point for waterway, rail and road nets radiating from the Ham House, Thanh Hoa area. Additionally, ramps and landings integral to the port can serve road and call ferry operations apposite Song Ma when use of the Thanh Hoa bridge in denied.
- 8. TARGET ENVIRONMENT: Target, about 30 ft. above sea level, in about 2 NM NNE of Thomh Hoa. Target is on the obtaining Song Ma, 8.5 NM WIW of river's month at Gulf of Tonkin. Song Ma traverses flat, rice-curtivated plant which contain widely scattered hills. Small hill, mostly terraced and reaching 300 ft. above the plains, is located 1 NM Wild of target. Discontinuous hills, with peaks up to 1150 ft. above sea level, begin 5.5 NM N of target and extend not have sea level, begin 5.5 NM N of target and extend not have sea level, begin 5.5 NM N of target and extend not have sea level, begin 5.5 NM N of target and extend not have sea level, begin 5.5 NM N of target and extend not have sea level. Road and railroad bridge marks lew limits of target; on W side of Song Ma, road and railroad are by dered on N by a grassy hillock.



A : DH

Armes & Co.

1Ó

15 16

17 18

19 20

21

22

23 24

25 26 27

29 30

> 32 33

> > 30

31

40

444445676

46

(Revised by 7th Note to Holders)

9. DEPENSE ENVIRONMENT:

- a. The overall Thanh Hoa AAA defense comprises 12 sites with 47 positions (31 occupied/2 possibly occupied and 14 unoccupied positions). One unoccupied 4-position site is in the immediate vicinity of the target. (DOI: 19 March, 2, 4, and 5 April 1965)
- b. Heavy AW and ground fire would be anticipated since trenching is evident within the target area. Current Order of Battle holds the 269th Independent Infantry Regiment and the 57th Infantry Regiment of the 304th Division in the Thanh Hoa area. In addition, the 486th Coastal Security Battalion is located at nearby Sam Son, approximately 7 NM southeast of Thanh Hoa.
- c. Within 5 NM of Thanh Hoa (1948N/10547E) are two EW radars and at My Duc, about 10 NM northeast there is a coastal watch radar.
- 10. <u>DAMAGE OBJECTIVE</u>: Disruption of port operations through damage to landing facilities, mechanical handling equipment and warehouses.
- 11. EFFECT ON DRV: The facility is one of the DRV's important inland waterway ports, and its development has been assigned a high priority in DRV waterway development plans. Damage to the facilities would disrupt a waterway-oriented transportation pattern in the area, impede rail and road ferry operations, and hamper transport related to important agriculture and forestry industries concentrated in the area.
- 12. RECUPERABILITY: Port facilities are relatively unsophisticated, and it is estimated that cargo transfer operations could be restored to 50-60% of their prestrike capacity in 4-5 days, to 80-90% of prestrike capacity in 1-2 weeks. Replacement of damaged or destroyed mechanical handling equipment would prove most difficult, and it is anticipated that manual transfer of bulk cargos would be resorted to, at considerable loss in efficiency; the effect of significant damage to landing facilities would be absorbed largely through increased river bank cargo transfer, again at considerable loss in efficiency. Destruction of covered storage facilities would seriously hinder port operations only temporarily; it is estimated that covered storage equal to that provided by damage buildings could be provided in adjacent urban/industrial buildings. Replacement construction for damaged storage buildings would require an estimated 5-7 days if pursued on a priority basis. Repair of road and rail clearance from the port area would require 2-3 days.
 - 13. COLLATERAL DAMAGE: Insignificant.

14. RECOMMENDED WEAPONS AND SORTIES:

- a. This is a large target complex comprised of four areas. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target is also shown.
 - (1) In order to achieve a damage level of 30%, weapons/sorties required over target:

TOP ECRET

A-C-DH-3

Tab DH to Annex C to Appendix A 1

2

34

7 8

19

20 21

29012345678901

43

45

46

47



Weapon:	250# Snakeye	or	250# BOMB o		500# BOMB	or	750# BOMB	
Area A	14/1		41/3		21/2		13/2	1
Area B	17/2		41/3		21/2		13/2	.2
Area C	26/2		60/5		31/3		18/3	3
Area D	19/2		41/3	٠	21/2		13/2	4
Totals:	76/7		183/13		94/9		57/9	5
(2) over"	Weapons/ target" 1	sort:	les oper rement si	ation hown	nally above	requi	lred to achi	eve 6 7
	93/9		223/16	•	115/1		70/11	8
(3) In order to achieve a damage level of 70%, weapons/sorties required over target:							9 10	
Weapon:	250# Snakeye	or	250# BOMB	or .	500# BOMB		750# BOMB	
Area A	48/4		138/12	2	71/	8	44/7	11
Area B	58/5		138/12	?	71/	8	44/7	12
Area C	88/7		202/17	•	105/	12	61/10	13
Area D	64/5		138/12	2	71/	′ 8	44/7	14
Totals:	258/21		616/5		318/		193/31	15
	4) Weapons r target"	/sor	ties ope	ration	onall; n abov	ie: Ledi	uired to act	16 17
	315/26		751/6		388,		235/38	18
15. PROB	ABILITY O	ACH	IEVING D	DAMA	E LEV	EL:	50%	19

TOP SECRET

A-C-DH-h

Tab DH to Annex C to Appendix A



TAB DO TO ANŠEŠ C. TO APPENDIN A

TARGET NO. 72



TOP S ICRET (Revised by 11th N/H)

A-C-DO-1

 $\label{eq:total_problem} \begin{array}{ll} \mathbf{Tata}(\mathbf{DO}(\mathbf{t})) (\Delta \mathbf{r}) & \text{on } \mathbf{r} \\ \mathbf{tot}(\Delta_{\mathbf{ppr}}, \mathbf{det}, \mathbf{x}) (\Delta) \end{array}$

1.	TARGET NUMBER: 7	22		1
2.	BE NUMBER: 615-01	49		2
3.	IDENTIFICATION: PO	ort Wallut Naval Base		3
4.	DATE OF INFORMAT	ION: 12 August 1966		4
	DATE OF TIS: 7 Sept	tember 1966		5
	DATE OF PHOTOGRA	APHY: 17 March 1965		6 7
	DATE OF INTELLIGE	ENCE REVIEW: 5 April	1965	•
_		4N 107-24-19E, UTM Y	671464, 15.5 NM NE	8
	Pha.	4.4 101024-1727 0200 00		9
		me at a second well-	protected harbor on the	10
6.	DESCRIPTION: Pert	Wallut is a natural well- e western half of the cape	comprises a barracks	11
N arde	of He de Ke Bac. The	pproximately 15 scattere	d administration/	12
and ac	iministration area C1 4	with an approximate total	of 16,855 sq. ft. gross	13
				14
		en anove is a small by i	icae pieri inaj-	15
				16
		I store what ZUU IEEL IU	ill, I Claire, - Perior	17
		i cact wide annreaches, q	illa acpens arender	18
				19 20
				21
	3 11 (mid	e ta nr. viae aimberseu	De Luising	22
_		thin value off the NE Co		23
		cocet buildings and I be	I acks parameter	24
		ad ann Miernantied. Inc '	quay with the	25
shore	of the bay comprises	a warehouse and storage	e are underground	26
conta	uning 33, 350 sq. ft. A	Also within this area ther	a POL tank. The	27
				28
				29
of th	e bay, connected to the	sq. it. Normally 2 PGN	A's and 3 P-4's are	30
base	d at Port Wallut.			3 ì
		orthernmost of NVN nava	l bases; has support	32
fac	llitles for coastal	patrol craft.		1 4
		MENT: The Port Wallut	Naval Base is located in	34
:	B. TARGET ENVIRON	MENT: The Port Wallu.	M NE of Cam Pha the	35
2 817	nall bay on the NE side	of the de Ke Ban, 15.5 : 154 NM NE of Hai Phong	No alternate landing	36
alos	est alternate purt, and	vicinity of Port Wallut.	East of Port Wallut the	37
faci	lities in the immediate	, 300 toot ridge trending	NE .SW. The ridge	38
isla	nd rises steeply to a li	, you thise trage is as a		39
alot	es are heavily wooded	•		
	9. DEFENSE ENVIRO	NMENT:		40
		nave been identified withi	n a 30 NM radius of this	41
		ave been identified with.		42
	target.			
	L (dantified AAA	defense activity in the V	an Hoa area includes 2	43
	ettes 16 occupie	ed 37mm revetments) and	2 inactive sites. (DOI:	44
	10 May - 28 July 1965	i)		45
	1			
TOP	ECRET	A-C-DO-2	Tab DO to	

Annex C to Appendix A

(Revised by 11th Note to Holders)

٠.	In	tense i	nachine	gun/sm	all arms	fire from	n naval	base pe	rsonnel	1
would	be	enconn	tered.	Lutest	naval OB o	arries.	3 P-4 10	rpedo b	oats at	2
this b	anc	which	could n	ount tw	o twin 12.	7mm HN	AG's eac	h.		3
			ה ופכירו	VE. D.	duce the n	aval has	e capab	ility of	supporting	4
10. <u>D</u>	AM.	AGE U	BJECTI B.AIL CL	VE: NE	or torpedo	boats.	Damage	criter	ion is	5
	١		in sunni	v/auppo	rt building	zs. repa	ir iacili	ties, w	ltn	6
comman	nvin	a dama	is suppi	otor to	rpedo boat	s under	going re	pairs at	the naval	7
facilities	wit	thin the	target	area.	Damage le	vel 18 30	per ce	nt.		8
		ECT O	N NIVAI	Reduct	ion in cap	ability (or suppo	rt, rep	air, and	9
berthing	oí e	coastal	defense	patrol	crast, pri	ncipally	the P-4	type.		10
		******	DIT ITS	/· Lumi	her availa!	ble at H	ai Phong	. Recu	perability	11
time as i	ioll	OVE:	BILLI				_			12
a	1	Damago	255651	ment:					l day	13
ъ	. (Clearin	ig debri	s and pr	ocuremen	t of lum	ber:		3 days	14
					luding app			dings:	1 day	15
		-						TAL:	5 days	16
13. (COI	LLATE	RAL DA	MAGE:					•	17
										18
	ä.	Insigni	ncant				_	9.4		19
•	ъ.		Popu	lation			Cast	alties*		• /
		Targe	Area	Adjace	nt.Area	Targe	t Area	Adjac	ent Area	20
		Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	21
		250	0	100	150	15	. 0	1	2	22
		*Casu	alties e	stimate	d under da	ylight a	ler: con	ditions.		23
14.	RE	сомм	ENDED	WEAP	ONS AND	SORTIES	<u>5:</u>			24
			1154	- منسبت	nrised	of nine	areis.	Three a	reas have	25
						.r W⇔a	DODE 4D	0 201 16	5 11W T T	26
										27
the	da da	mage l	evel pre	scribec	i, total we	apons/s	orties r	equired	over the	28 29
tar	get	are ai	so show	n:						. 29
	•				dama	an ieve	1 26 30%	. weapo	ns/sorties	30
	re	(1) I: quired	over ta	rget:	eve a dame	ige icvo		•		31
	•	_			,					
TOP JE	ECR	<u>et</u>			A-C-D0-	3		Tab Do	C to	

(Revised by 11th Note to Holders)

	250#		250#		500#		750#	.*
WEAPON	SNAKEYE	or	BOMB	or	BOMB	or	BOMB	
Area B (200x1400)	64/5		125/10		64/7		38/6	1
Area E (200x300)	21/2		43/4		22/2		13/2	2
Area H (200x800)	39/3		78/7		40/4		24/4	3
Totals	124/10		246/21		126/13		75/12	4
(2) We target" req	apons/sorties (uirements sho	oper wn a	ationally bove:	requ	ired to ac	hieve	"over	5 6
÷	151/13		300/25		154/18		91/16	7
(3) In a	order to achiev	/e 2	damage 1	evel	cí 70%, w	eapon	s/sorties	8 9
WEAPON	250# Snake ye	or	250# BOMB	or	500# BOMB	or	750# BOM B	
Area B	216/18		422/35		216/24		128/21	10
Area E	71/6		145/12	•	74/8		44/7	11
Area H	132/11		263/22		135/15	5	81/14	12
Totals	419/35		830/69)	425/47	? ,	253/42	13
(4) W target'' re	eapons/sorties equirements sh	cpe cwn	rationalli above:	y req	uired to a	chiev	e "over	14 15
	511/43		1012/8	5	518/5	8	309/52	16
IS PROBARI	LITY OF ACH	IE V	ING DES!	RED	DAMAGE	LEVI	EL: 50%	17

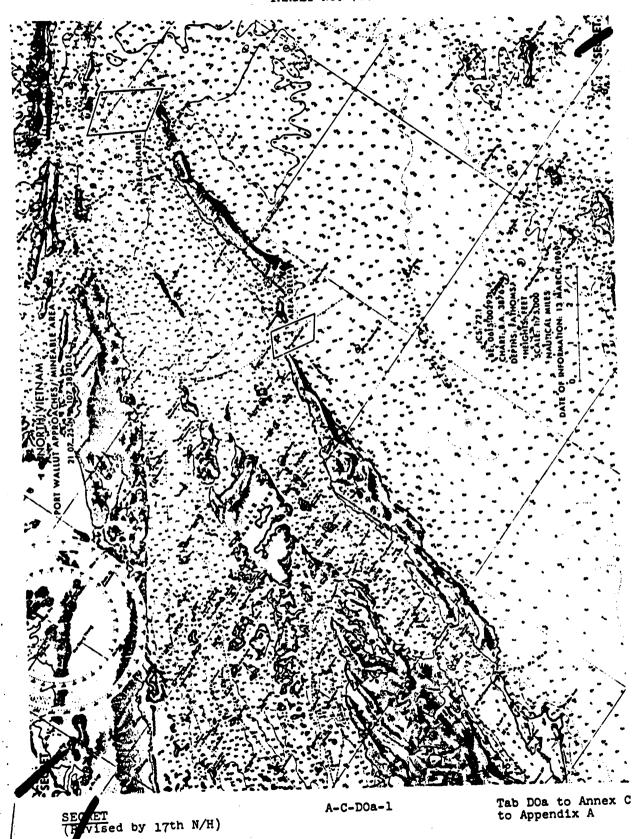
TOP CERET

A-C-D0-4

Tab DO to Annex C to Appendix A

(Revised by 11th Note to Holders)

TAB DO& TO ANNEX C TO APPENDIX A TARGET NO. 72.1



? 。



1. TARGET NUMBER: 72.1	1
2. BE NUMBER: 615-0293	2
2. IDENTIFICATION: Van Hoa Approaches/Mineable Area Port Wallut	3
DATE OF INFORMATION: 12 March 1969 DATE OF TISD: 8 May 1969 DATE OF PHOTOGRAPHY: Not applicable DATE OF INTELLIGENCE REVIEW: 13 March 1969	567
5. LOCATION: 21-07-25N 107-38-30E (Approximate center of Area DELTA), 5 NM SE of port Wallut Naval Base.	8 9
6. <u>DESCRIPTION</u> : The two primary mining areas which control deepwater access to Van Hoa have been delineated.	10 11
a. Area CHARLIE, 21-15N 107-41E (1.2 x 1.8 NM), extends across Kaai Chin Mun Channel, controlling the northeast approach. Depths vary from 12' to 65'.	12
b. Area DELTA, 21-07N 107-38E (0.8 x 1.1 NM), lies at the mortnern tip of Ile Ba Mun, in the Tsieng Mun Channel. Depths vary from 30' to 66'.	14 15
attain 1.5 ktr. velocity.	16 17
7. SIGNIFICANCE: These mineable areas control access to the Pert Wallut Naval Base (BE 615-0149), the northermost naval support Chaility in NVN.	18 19 20
Wallut. extends NW from N end of Ile Des Singes (300' elev.) for 1.7 NM. to a small inland 140' high. Ile Aux Sangliers, (max. elev. 750') is about 2.0 NM S of area; Liong Tai Loung Isl. (530' elev.) is 2.0 NM NW of area. Area DELTA, 6 NM SE of Port Wallut, is oriented NW-SE netween the long narrow islands Ile Ba Mun (1,000' elev.) and Ile Aux Sangliers; if the of Ile Ba Mun touches SW edge of area, and Ile Higher, a very small island 280' high, at S end of Ile Aux Sangliers, touches NE edge. Ile Aux Bambous (660' elev.) is 3.5 NM W of area; I.e Madeline (920' elev.) is 3.5 NM SW of area.	2234 256 28 29 20 20 30
O. DEFENSE ENVIRONMENT:	31
a. The target is not within the SAM envelope.	32
b. AAA activity has been identified within 3 NM of the target.	33
e. HMG and small arms fire is not anticipated.	34



NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

Tab DOa to Annex C to Appendix A

A-C-D0a-2

(Revised by 17th Note to Holders)



10. DAMAGE OBJI	ECTIVE: Interd	iict NVN Naval craf	t and restrict	1 2			
	NVN: Reduction	n in capability for patrol craft.	support, repair,	3 4			
12. RECUPERABILITY: At present the NVN has only a very limited minesweep capability.							
		ible damage to fish	ning craft transiting	6 7			
	D WEAPONS AND	SORTIES (MINEABLE	AREA):	8			
		Over Target		9			
Field	MK 52-2	MK 36-2	A-1H Sorties	10			
Area :	37	82	40	11			
Area D	20	43	21	12			
		Launch		1.3			
Area C	14.14	98	48	14			
Area D	24	51	25	15			
	TY OF MODERATE	DAMAGE TO A SINGLE	E SHIP TRANSITING THE	16 17			

SEC ADT

A-C-DOA-3

Tab DOa to Annex C to Appendix A

TAB DP TO ANNEX C TO APPENDIX A

TARGET NO. 73 **③** SITE, 8 POSITION, OCCUPIED AAA SITE, 8 POSITION, OCCUPIED AAA SITE, 6 POSITION, UNOCCUPIED AAA SITE, 6 POSITION, UNOCCUPIED AAA SITE, 8 POSITION, UN 10 APA SITE RPOSITION, UNOCCUPIED
11 AAA SITE, B POSITION, UNOCCUPIED
12 AAA SITE, 4 POSITION, UNOCCUPIED
13 AAA SITE, 6 POSITION, UNOCCUPIED
14 AAA SITE, 6 POSITION, UNOCCUPIED
15 AAA SITE, 6 POSITION, UNOCCUPIED
17 AAA SITE, 6 POSITION, UNOCCUPIED
18 AAA SITE, 6 POSITION, UNOCCUPIED
19 AAASTE, 6 POSITION, UNOCCUPIED
20 AAASTE, 6 POSITION, UNOCCUPIED
21 AAASTE, 6 POSITION, UNOCCUPIED
21 AAASTE, 6 POSITION, UNOCCUPIED
21 AAASTE, 6 POSITION, UNOCCUPIED
22 AAASTE, 6 POSITION, UNOCCUPIED
23 AAASTE, 6 POSITION, UNOCCUPIED
24 AAASTE, 6 POSITION, UNOCCUPIED
25 AAASTE, 6 POSITION, UNOCCUPIED

SEC LET (R vised by 14th N/H)

A-C-DP-1

Tab DP To Annex C To Appendix A

7.7

I. TARGET NUMBER: 73		
2. BE NUMBER: 616-00014 (areas A, C, and E)	. 2	
616-04108 (areas B and F)	3	
616-04163 (area A-1)	4	
616-04128 (area F-1)	5	
616-04107 (area D)	. •	, .
3. IDENTIFICATION: Ha Noi Port Facilities Red River.	7	7
4. DATE OF INFORMATION: 18 December 1967.		3 . 9
DATE OF TIS: 22 March 1968		, 10
DATE OF PHOTOGRAPHY: 28 October 1967 DATE OF INTELLIGENCE REVIEW: 6 March 1968		11
5. LOCATION: 21-00-30N/105-52-19E (this is a reference point for complex).		
6. DESCRIPTION: Ha Noi Port is an inland waterway port accessib	le to craft	14
		15
		16 17
. ,	•	18
		19
warehouse-type buildings, 7,000 leef of five balls about the consists of 3 high water, and includes Ha Noi Barge Yard #2 (F-1) which consists of 3 buildings, and 3 open construction ways. The southern cargo handling factors		20
buildings, and 3 open construction ways. The southern cargo wharf, one 160-foot (A, C, and E) consists of one 140-foot general cargo wharf, one 160-foot purpose the building of the construction of the const	general	21
		22
		23
		24
		25 26
		27
mill (= :1:A implieded M2 NOI hoat tatu viiii) i (** */ *****		28
Ha Noi Barge Yard (D) is located between the northern and southern car facilities and consists of 14 fabrication buildings, 23 support buildings,		30
		31
construction ways, and I marine railway. The port construction ways, and I marine railway.	ajor water-	32
way system. The port area is not directly served by rail.		33
	inland	34
7. SIGNIFICANCE: Ha Noi Port handles an estimated 30% of NVN waterway traffic. It is an important commercial transshipment and dis		35
		36
center and handles some shipments for support of 2.2. It is construction facilities in the target area account for 15% of the total NV	'N barge	37
building capability.		38
The part facilities constitute a line	ar, dog-	39
		40
legged complex approximately 3NM long ranging in the state of the legged complex approximately 3NM long ranging in the state of the sta	southern	41
sections are connected by unimproved riverbank.		42
	Tab Dp to	
(DEUTCED BY 1/1TH NOTE TO HOLDERS)	Annex C to	
(IIII Zala a.	Appendix A	PA .
SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWN	NGRADING	

9. DEFENSE ENVIRONMENT:

a. '	The targ	et is wi	thin the Sa	AM envelop	e.			1	
b.	AAA act	ivity ha	s been ide	ntified with	in 3 NM of	the targe	t.	2	
c.	HMG and	i small	arms fire	is anticipat	ted.		•	3	
10. DA facilities in warehouses Damage lev	the por	t area. e railwa	pamage c	uce port's overiterion is raft constru				4 5 6 7	١ .
ll. EF major tran will cause a reduction is	FECT Control of the cap	ON NVN: enter of s in ma pability	Reduced the countr terials wh to provide	military s	the gener	al econom	y and a	; 1) 10 11
area, are s	relativel stored	y unsop to 90% o	histicated [pre-stri	acilities at . It is esting the efficience le for a per 0% of their	y within 4	5 days, a	lthough cov Craft const	tions ered ruc-	12 13 14 15 16
13. <u>C</u>	OLLATE	ERAL D	AMAGE:						17
a.	Moder	ate dam	age to sur	rounding as	rea.				
ъ.	P	opulatio	n		•	Casualtic	e s **		18
		Area		nt Area	Targe	t Area	Adjacen	t Area	. 19
	Mil	Civ	Mil	Civ	Mil	. Civ	Mil	Civ	20
	0	3500	0	8000	0	210	0	80	21
	*Casua	lties es	imated un	der dayligh	t alert con	ditions.			22
14. F				NS AND SOI					
de co da	This lineated mputed mage le e also s	target in for weat for each vel pres hown:	s comprisons applications appli	ed of six ar ication. Wo . To show otal weapon	eas. Ten eapons and the effort s/sorties	required o	to achieve to	the get	23 24 25 26 27
	(1) I	n order	to achieve	a damage	level of 30	%, weapo	ns/sorties	requir	5420

SECKET

over target:

A-C-DP-3 (REVISED BY 14TH NOTE TO HOLDERC) Tab DP to Annex C to Appendix A

Weapon:	500# Snakeye or	750# Bomb	
Area A-1 (150 x 500)	12/1	16/3	1
Area A-2 (150 x 300)	9/1	13/2	2
Area B-1 (250 x 1250)	35/4	36/6	3
Area B-2 (200 x 900)	22/2	26/4	4
Area C-1 (300 x 600)	23/3	21/4	5
Area D (400 x 400)	22/2	19/3	6
Area E (150 x 400)	20/2	75/12	7
Area F-1 (150 x 300)	9/1	13/2	. 8
Area F-2 (350 x 1550)	57/6	49/8	9
Area F-3 (350 x 550)	24/3	21/4	10
Totals:	233/25	289/48	11
(2) Wes	pons/Sorties operationa shown above:	lly required to achiev	ve "over 12 13
Totals:	280/31	347/58	14
	order to achieve a damag	se level of 70%, weap	ons/sorties 15 16
Weapon:	500# Snakeye	or 750# Bomb	•
Area A-1	41/5	54/9	17
Area A-2	30/3	44/7	18
Area B-1	118/13	122/20	19
Area B-2	74/8	88/15	20
Area C-1	78/9	71/12	21
Area D	74/8	64/11	22
Area E	38/4	175/29	23
Area F-1	30/3	47/8	24
Area F-2	193/21	166/28	25
Area F-3	81/9	71/12	26
Totals:	757/83	902/151	27
SECRET	A-C-DP- (REVISED BY 14TH NO	4 TE TO HOLDERS)	Tab DP to Annex C to Appendix A

SPERET
-

(4) We target" requirement		lly required to achieve "over	1 2
Totals:	909/101	1082/180	3
15. PROBABIL	ITY OF ACHIEVING DES	IRED DAMAGE LEVEL: 50%	4

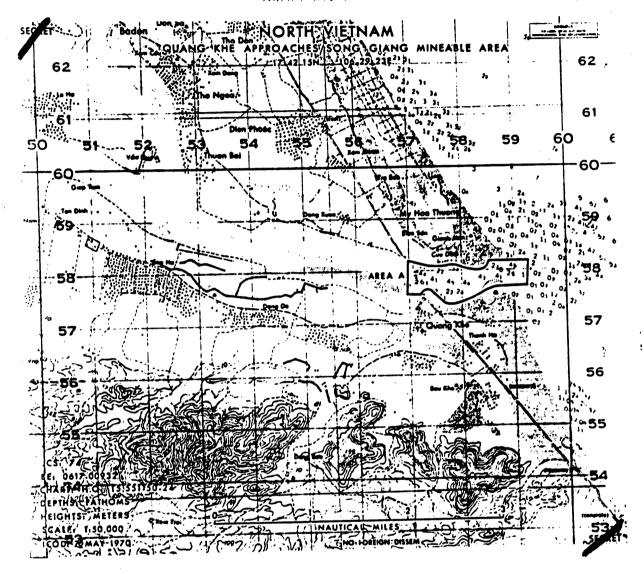
SECRET

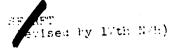
A-C-DP-5
(ADDED BY 14TH NOTE TO HOLDERS)

Teb DP to Annex C to Appendix A



TABLES TO ARREST TO APPENDIX A TABLET NO. 74





A-0-DG-1

Tab DQ to Annex C to Appendix A



1. TARGET NUMBER: 74	1
2. <u>BE NUMBER:</u> 617-0932	2
3. <u>IDENTIFICATION</u> : Quang Khe Approaches/Song Giang Mineable Area	3
4. DATE OF INFORMATION: 22 February 1971 DATE OF TISD: 23 February 1971 DATE OF PHOTOGRAPHY: Not Applicable DATE OF INTELLIGENCE REVIEW: 22 February 1971	5 6 7 8
5. LOCATION: 17-42-15N 106-29-23E, 17 NM NW (31.5 km) of Dong	9 10
6. DESCRIPTION: One individual area that controls access to the Quang Khe Coastal Transshipment Point has been selected.	11 12
a. AREA ALPHA is located at the river mouth, with a 500 yd (460 m) extension into the Gulf of Tonkin; 1 NM (1.85 km) long, .25 km (463 m) wide; central depths to 39' (12 m) at E edge, 25' (7.6 m) thru center and 9' (2.7 m) at W edge; bottom is mud.	13 14 15 16
h. Tidal information: MHHW 4.3' (1.31 m), MLHW 3.4' (1.04 m) MHLW 3.3' (1.01 m), MLLW 1.6' (0.49m).	17 18
c. The Song Giang at Quang Khe Coastal Transshipment Point is about .33 NM (617 m) wide with central depths of 20' to 30' (6 to 9 m) for at least 1 NM (1.85 km) in from the river mouth. The river is fronted by a bar that extends in a semicircle about 1 NM (1.85 km) into the Gulf of Tonkin. Depths over the bar shoal to less than a fathom about .75 NM (1.4 km) offshore with the 2-fathom curve only about .25 NM (463 m) beyond.	19 20 21 22 23 24 25
7. SIGNIFICANCE: This mineable area controls access to Quang Khe Coastal Transshipment Point (BE 617-1044) with its associated port facilities. The military port capacity is estimated at 250 (254 mt) long tons per 20 hour working day. Additional tonnage is offloaded across the beach and transits the area on inland waterway vessels.	26 27 28 29 30
8. TARGET ENVIRONMENT: Target, near sea level, extends about 1 NM (1.85 km) upstream from river mouth. Stream, flowing ESE across flat plains cultivated in wetland rice, is bounded by very low banks. Narrow marshes 300' to 1,500' (90 m to 460 m) wide border each side of river; marshes bounded by levees roughly parallel to river. 1.5 NM (2.85 km) SSW of river, plains abut steep, wooded, ESE-WNW trending (1.85 km) SSW of river, plains abut steep, wooded, ESE-WNW trending (2.85 km) SSW of river, plains abut steep, wooded, ESE-WNW trending (1.85 km) upsteam from center of target increase in low hills 6.0 NM (11.1 km) upsteam from center of target increase in elevation inland. There is no alternate approach to the transshipment point and no other facilities outside the river to accommodate patrol craft.	312345678901 33333333333344

SECUT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING A-C-DQ-2 (Revised by 17th Note to Holders)

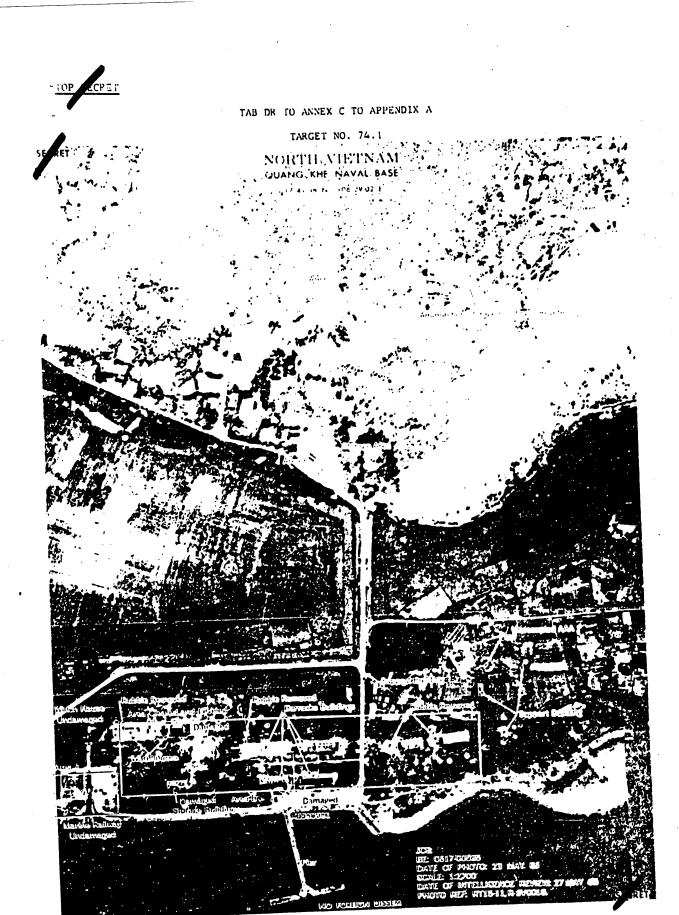
Tab DQ to Annex C to Appendix A



9. DEFENSE ENVIRONMENT:	1
a. The target is within the SAM envelope.	2
b. AAA activity has been identified within 3 NM of the target.	3
c. HMG and small arms fire is anticpated.	4
10. DAMAGE OBJECTIVE: Interdict NVN naval craft and coastal vessels traversing the Cua Giang; deny use of Quang Khe Transshipment Point and port facilities.	5 6 7
11. EFFECT ON NVN: Deterioration of naval support capability to southern fleet area and deterioration of NVN coastal shipping capability.	8
12. RECUPERABILITY: At present the NVN has only very limited minesweep capability.	10 11
13. COLLATERAL DAMAGE: Possible damage to fishing craft transiting	12 13
area. 14. RECOMMENDED WEAPONS (MINEABLE AREA):	14
	15
<u>MK 30-2.</u>	16
15. PROBABILITY OF MODERATE DAMAGE TO A SINGLE SHIP TRANSITING THE MINEFIELD AREA (ALL FIELDS COMBINED): 30%	17 18



A-C-DQ-3 (Revised by 17th Note to Holders) Tab DQ to Annex C to Appendix A



TOP SCRET (Received by 6th N/H)

A-C-DR-1

Tab DR to Annex C to Appendix A



1. TARGET NUMBER:	Ţ
2. BE NUMBER: 617-0585	2
3. IDENTIFICATION: Quang Khe Naval Base Cuu Dinh	3
4. DATE OF INFORMATION: 23 May 1965 DATE OF TIS:	5
5. LOCATION: 17-42-25N 106-28-55E, UTM XE 575580	6
	78 9011 134 56 78 9012 22 24 56 7
7. SIGNIFICANCE: It is the southernmost naval base in DRV providing support to patrol craft. The base is located near the river mouth, giving the craft quick access to the Gulf of Tonkin.	30 31 32 33
8. TARGET ENVIRONMENT: In Don Naval Facility (17-43N/106-26E) (UTM XE 525600), located about 4 miles upriver, has a small T-head pier, 2 barracks, 2 probable storage buildings, and an administrative building. While it is not considered to be an active naval facility, patrol craft have been berthing at the pier recently, possibly to avoid concentration of forces at Quang Khe. Port facilities on the south side of the river includes a T-head pier with a herthing length of 100 feet, two finger piers used for breasting coasters about 180 feet long across heads of both piers.	345 356 378 378 390 412 423

9. DEFENSE ENVIRONMENT:

a. AAA defenses in the Quang Khe - Cuu Dinh area included in an active 8-gun 57mm or 85mm site as of 24 March 1965.

There are 8 inactive sites, amounting to 3h unoccupied in positions, in the general vicinity. (Photo ref: Quang positions, in the general vicinity. (Photo ref: Quang Khe - 24 Mar 65; Cuu Dinh - 13 Feb and 24 Mar 65; Thanh Khe - 24 Mar 65; Thuan Bai (active) - 24 Mar 65).



The state of the s

Quang Khe Barr 582573) and ha 500 military (5-gun coastal the Quang Khe	acks are lave an estimation of the estimate of	mated capabilice security) protection is located	ty for accorrence. 1.8 nm sou	ommodating A revetted theast of	12345678
c. An SO-ty at 174222N/100 KNIFEREST B an 13 nm southeau	52939E. Ear nd SCR-270	search rader rly warning it radars at Don	a Deal Drov	Trea of	9 10 11
10. DAMAGE OBJ supporting and repatrol/torpedo be to buildings and and repair capab going repairs at sought is 30 per	epairing "S oats. Dama facilities ilities and the marine cent.	watow class ge criterion contributing moderate dam railway faci	notor guibe is structur to storage age to boa lity. Dam	ral damage e, support, ts under- age level	12 13 14 15 16 17 18
11. EFFECT ON in the southern	DRV: Reduce part of DRV	tion of the n	aval defen	se capability	20
12. RECUPERABI	rrms. ()	on te evellet	ole no fart as follows:	her away	21 22
•	assessment			2 days	23
		nd procurement	t of timber	·: 2 days	24
		d buildings:		3 days	25
o, nopeas		•	Total	7 days	26
13. COLLATERA	L DAMAGE:	Insignificant	•		27
14. RECOMMEND	_			•	28
a. This i	s a large to ons and sor ow the efforthed, total	arget complex ties have bee ort required t weapons/sort	a achieve	the damage	29 30 31 32 33
/1\ Te	order to	achieve a dame uired over tar	nge level o rget:	£ 30%,	34 35
Weapon:	250#	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A	18/2	25/2	22/2	21/4	36
Area B	26/2	60/5	31/3	18/3	37
Area C	112/10	408/34	408/45	408/68	38
Area D	112/10	338/28	338/38	338/56	39
Area E	12/1	45/4	32/4	30/5	40
Totals:	280/25	876/73	831/92	815/136	41
(2) V "over te	leapons/sor lrget" requ	ties operation irement shown	nally requi above:	red to achiev	ve 42 43
4	342/30	1070/89	1010/112	994/166	44
TOP ECRET		A-C-DR-3		Tab DR to Annex C to Appendix A	



(3) I weapons/	n order to a sorties requ	chieve a dame ired over tar	ge level of get:	70%,	1
Weapon:	250# SNAKEYE C	250# or <u>BOMB</u> or	5CO# BOMB or	750# BOMB	
Area A	61/5	85/7	75/R	71/42	3
Area B	88/7	202/17	105/12	61/10	4
Area C	376/32	1375/114	1375/158	1375/228	5
Area D	378/32	1140/95	1140/127	1140/190	6
Area E	41/3	152/13	103/12	102/17	7
Totals:	944/79	2954/246	2803/314	2749/459	8
(4)	Weanchs/sort		ally requir above:	ed to zchieve	9 10
•	1150/96	3600/300	3460/384	3,460/560	11
5 PROBABI		EVING DAMAGE	CRITERION:	50 %	12

TOP SECRET

Tab DR to Annex C to Appendix A



ANNEX D TO APPENDIX A

CATEGORY D

INDUSTRIAL INSTALLATIONS

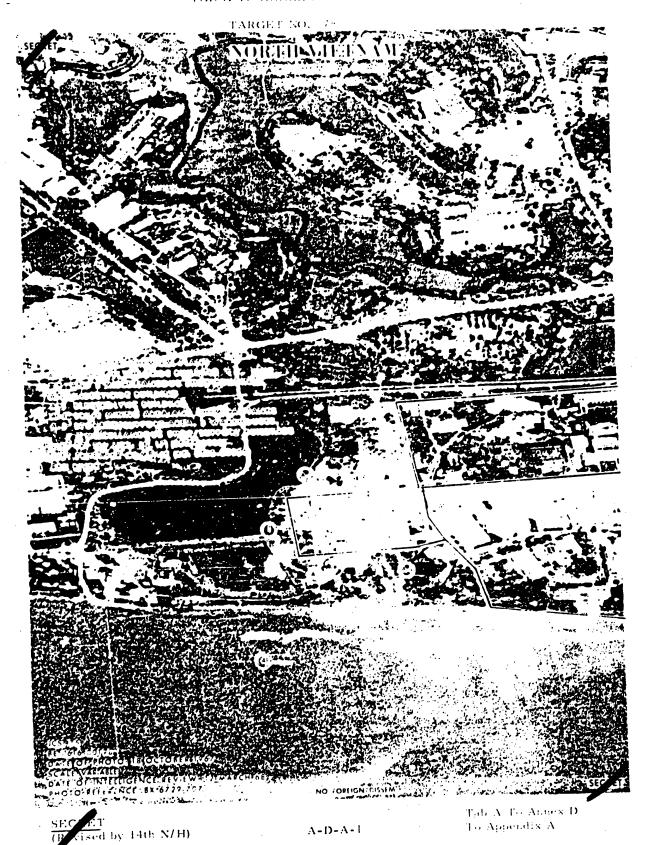
TOP SCRET

A CONTRACTOR OF THE PROPERTY O

A-D-1

Annex D to Appendix A

TOP SECRET





1. TARGET NUMBER: 75	1
2. <u>BE NUMBER:</u> 616-0198	. 2
3. IDENTIFICATION: Viet Tri Chemical Plant	3
4. DATE OF INFORMATION: 3 April 1968 DATE OF TIS: 24 April 1968 DATE OF PHOTOGRAPHY: 18 October 1967 DATE OF INTELLIGENCE REVIEW: 12 March 1968	4 5 7
5. LOCATION: 21-17-55N 105-25-12E	8
6. DESCRIPTION: The plant occupies a 400' x 600' site on the western side of the Viet Tri industrial complex. It is made up of a polyvinyl chloride building, five miscellaneous shop buildings, an insecticide building, an electrolytic building, a brine-mixing area with chemical tanks, a storage/support area, three warehouses, and seven miscellaneous shop/support buildings. The installation is water, road, and rail served.	9 10 11 12 13 14 15
7. SIGNIFICANCE: This plant, though relatively small, is North Vietnam's only producer of chlorine. It was constructed in 1961 with Communist Chinese aid as an integral part of the Viet Tri industrial complex. Chief products are: chlorine, with a capacity of 3,200 metric tons annually; caustic soda, which it supplies to an adjacent paper mill; polyvinyl chloride, which it supplies to a nearby nylon plant; hydrochloric acid; ferric chloride, and insecticides. This plant is probably the nation's major supplier of water-purifying chemicals and insecticides. The capacity of this plant is estimated to be 100 percent of the national capacity for chemicals.	16 17 18 19 20 21 22 23 24 25
8. TARGET ENVIRONMENT: Target, about 40 ft. above sea level, is 1.1 NM W of Viet Tri. Target is on N bank of Red River, 1.3 NM NE of the juncture of the Red River and the S-flowing Riviere Claire and 4.5 NM NE of the junction of the Red and Black Rivers. At the target, the Red River is about 1,000 ft. wide, and is bordered on the S by a sand area 0.5 NM wide. Target is on rice cultivated plains; beginning 1.0 NM NW of target and extending N and NW, the generally flat plains contain many terraced hillocks and many irregularly-shaped lakes. A road and railroad, alined WNW-ESE, borders the target on the north.	2789901234567 3333333333
9. DEFENSE ENVIRONMENT:	38
a. The target is within the SAM envelope.	39
b. AAA activity has been identified within 3 NM of the target.	40 41
c. HMG and SA fire is anticipated.	42
10. DAMAGE OBJECTIVE: Thirty percent structural damage to electrolytic cell building, brine mixing building, and polyvinyl chloride building.	43 44 45



SF KET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-A-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tab A to Annex D to Appendix A



sruption of producti nylon and paper at crification in North	Vietnam. Loss of	would reduce insecticides	water		12345	
12. RECUPERABILITY ould require many more my of the major compose f the equipment would t the Ha Noi Machine communist China. Inst rocessing units could	r: Restoration to the, as NVN is no ments. Replacement inecessitate eith Tool Plant, and the lation, testing	pre-attack prot known to man ent of even min her imports or use of skilled g, and adjustme	or portions manufacture labor from		6 7 8 9 10 11 12	
13. COLLATERAL DAY	•				13	
	age to surrounding	g area.			14	
			lties*		15	
b. Popula	Adjacent Area			Area	16	
				CIV	17	
Mil Civ		0 67	0.	17	18	
0 1120	s estimated under		**		19	
	WEAPONS AND SORTIE		, , ,		20	
into 5 sub-areas. We area. To show the element to be a considered.	apons/sorties required to apons/sorties required to achieve a	achieve the de uired over the	amage level target are	also shown:	22 23 24 25 26	
	500# Snakeye	750# BOMB	•		27 28	
WEADON						
		109/18			29	
WEAPON Area A (300 x 750) (2) Weap "over target" requir	108/12	109/18 stionally requi	red to achie	ve	30 31	
Area A (300 x 750)	108/12	109/18 stionally requi	red to achie	46	30	
Area A (300 x 750) (2) Wear "over target" requir	108/12 pons/sorties operatement shown above 130/14 order to achieve	109/18 ationally require:			30 31 32 33 34	
Area A (300 x 750) (2) Weak "over target" require	108/12 pons/sorties operatement shown above 130/14 order to achieve	109/18 ationally require:			30 31 32	
Area A (300 x 750) (2) Wear "over target" require (3) In (3) In (4) Wear	108/12 pons/sorties operarement shown above 130/14 order to achieve operare target: 364/40	109/18 ationally require: 131/22 a damage level 368/61 rationally require	of 70%, wear	oons/	30 31 32 33 34 35 36 37	
Area A (300 x 750) (2) Weap "over target" require (3) In sorties required ov	108/12 pons/sorties operarement shown above 130/14 order to achieve operare target: 364/40	109/18 ationally require: 131/22 a damage level 368/61 rationally require	of 70%, wear	oons/	30 31 32 33 34 35 36	



A-D-A-3 (REVISED BY 14TH NOTE TO HOLDERS) Tet A to Annex D to Appendix



- (2) We:	apons/sorties or get" requirement	erationally shown above	required to	achieve	1 2
	194/22	133/23	118/40	46/46	3
(3) In sorties r	order to achieve	ve a damage	level of 709	, weapons/	4 5
WEAPON	500# BOMB or	750# BOMB or	1000# BOMB or	2000# BOMB	
Area A	536/60	367/62	327/109	128/128	6
(4) We	eapons/surties o get" requiremen	perationall t shown abo	y required t	o achieve	7 8
	654/73	448/75	399/133	156/156	9
15. PROBABIL	ITY OF ACHIEVING	DESIRED DA	MAGE LEVEL:	50%	10

TOP S CRET

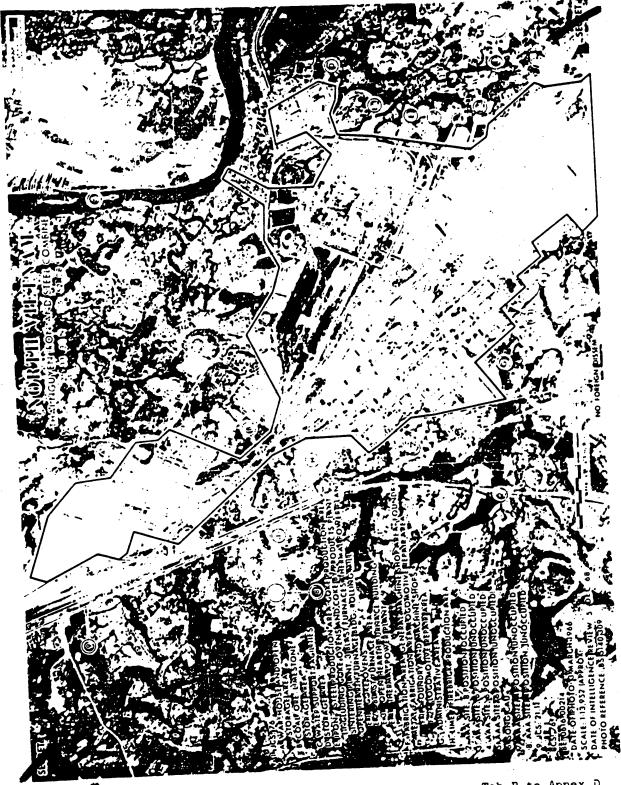
A-D-A-4

Tab A to Annex D to Appendix A

(Added by 10th Note to Holders)



TAB B TO ANNEX D TO APPENDIX A TARGET NO. 76



SECTION DA LATE N/H)

A-D-B-1

Tab B to Annex D to Appendix A



- 1. TARGET NUMBER: 76
- :. BE NUMBER: 616-0214
- 3. IDENTIFICATION: That Nguyen Iron and Steel Combine
- n. DATE OF INFORMATION: 5 August 1968

 DATE OF TISD: 29 January 1969

 DATE OF PHOTOGRAPHY: 3 March 1966

 DATE OF INTELLIGENCE REVIEW: 5 December 1968
- LOCATION: 21-33-30N 105-52-08E, located 2.5 NM SE of Thai Dauyen.
- DESCRIPTION: The dimensions of this installation are about lighted by high (1). The major areas and buildings are: a large ware-home and open storage area, a coal/ore/limestone storage area, a record smaller warehouse area, coke ovens, a coke by-products plant, a sintering plant, 3 blast furnaces, a thermal power plant, an open-hearth furnace building, rolling mill u/c, an area including a foundry, forges, and machine shops, an administrative area, a small commetive and railroad car repair shop, a metal fabrication plant, a probable firebrick plant, and water support facilities which include a prominent water aeration reservoir, a water tank and a cater pumping station on the river bank. The Thai Nguyen RR Chatien Yards and Shop (JCS Target #71.11) is adjacent to the ware-more and open storage area on the western edge of this complex, and the Thai Tayayen Ammo Depot (BE No. 616-0306) is Just SSE of this complex, and
- Dignification: This combine is the first large iron and steel that to be full in NVI. Construction probably started in 1960, which is being built with Chinese Communist technical assistance. There a design capacity of 300, is metric tons (M.T.) of pig iron, and the a design capacity of 300, is metric tons (M.T.) of pig iron, when completed, will satisfy about a present the estimates, the plant, when completed, will satisfy about of immestic iron and steel requirements. The 3 blast furnaces for the production of pig iron are complete. It is estimated that the iron production is at the rate of about 60,000 M.T. per year, about 60% of design capacity. In 1965 some 47.5 thousand M.T. were exported, and in 1965 about 40 thousand M.T. were exported.

 The open hearth furnace building for the production of crude steel making are complete, but there are no signs of activity. The mill for the rolling of steel is still under construction, and appears to be about 25% complete. The plant is not currently capable of making steel, hence any fabrication of steel products would have to depend on imported steel. The several foundry-forge-machine shops are capable of casting, cutting, and shaping metal.

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-B-2

(Revised by 17th Note to Holders)

Tab B to Annex D to Appendix A 156.773.19

;u,



8. TARGET is on rolling, 5.4 NM SW, and spaced hillocks bettoms. Flat, extend SE of the border the target.	about 5.5 , generall cultivate	plains NM NW. y less t d floodp	bounded Rolling han 60' lains of then 10	plains higher the SI	contain than adj I-flowing	many clos acent val Song Cau	ley y	1232,567
O. DEFENSE ENVIRONMENT:							. 8	
a. Tr	e target	is within	the SAM	envel	ope.			G.
b. Al	AA activit	y has bee	n identi	fied w	ithin 3	NM of the	•	10 11
	MG and sma	ll arms i	Cire is a	nticip	ated.			12
	E OBJECTIV	E: Thir	ty per co	nt str	uctural		lant,	13 14 15
11. EFFEC	T ON NVN:	Little	direct e	ffect of	n war-ma restige	king pote	ntial, e for	16 17 18
12. RECUP Communist Chin would require levels.	FRABILITY.	The co	mbine ha	s been	under co			29 21 22
13. COLL	ATERAL DAM	AGE:				•		23
	Insignific							24
b.		opulation	1		Casua	lties*		- 25
	et Area	Adjacent		Targe	t Area	Adjacen	t Area	26
M11	Civ	MI 1	Civ	Mil.	Civ	Mil	Civ	27
0		O	750	0	. 7	0	. 8	8'5
	ualties es	timated	under da	ylight	alert co	nditions.		29
	MMENDED WE					• .		30
This sub-areas) and sorties required to sorties requi	large com have been have been conchieve the lived over	noine is delineat computed e damage the targe	comprise ed for w for each level pr t are al	d of 8 eapons area. escribe so show	To show total wn:	w the effo l weapons,	ort /	31 33 33 34 35
(1) sorties requi	In order	to achiev	re a dama	ge lev	el of 309	%, weapon:	s/	36 37



A-D-B-3

Tab B to Annex D to Appendix A

EAPON	250# SNAKEYF	500# SNAKEYE	500# BOMB	750# BOMB	1
ren E-1 (375'x70')	2/1	2/1	7/1	7/1	3
ren E=/ (600'x65')	·/ 1	/1	·/1	9/1	4
rea R=2 (2001x740)	/1	33/4	63/7	20/5	5
rea F-4 (105'x155)	(Committee Co.	dwage level	L γυ% only-:	see hellow)	6. 7
reu F-1 (26 x230)	105/10	711/1	129/1/1	iya/10	7
rea F-2 (320'x220)	79/7	3:-/4	63/7	20/5	
OTALS	3/2/33	159/20	284/31	164/24	10
	s/sorties one	rationally re:	quired to a	chieve "over	11
(017,00 104,2110,	456/38	191/22	342/38	176/29	13
(3) In ord	ier to achieve	a dmage leve	1 of 70%, v	reapons/scrties	14 15
WEAPON	250# SNAKEYE	500# SNAKEYE	500# BOMB	750# BOMB	16 17
Area E-1	7/1	7/1	24/3	21./1.	ز ۲
Area E-2	20/2	80/8	20/2	20/3	1,1
Area E-3	277/23	111/12	211/23	96/16	.)(
Area E-/:	5,/1	5/1	13/1	13/?	;]
	653/55	263/29	435/48	198/33	22
Area F-1	266/22	107/12	211/23	96/16	21
Arca - 1	1233/104	513/57	914/10	00 447/74	3
(4) Weaps (arget" requirement	ons/sorties of	erationally r	required to	achieve "over	?
(atfler redurremen	1430/124	616/69	1098/	123 537/90	5
		ING DESIRED DA		: 50%.	?



A-D-B-4

Tab B to Annex D to Appendix A



763



1. TARGET NUMBER: 77	*
2. BE NUMBER: 616-0261	2
3. IDENTIFICATION: Ha Noi Machine Tool and Engineering Equipment Plant	3
4. DATE OF INFORMATION: 3 April 1968 DATE OF TIS: 25 April 1968 DATE OF PHOTOGRAPHY: 18 October 1967 DATE OF INTELLIGENCE REVIEW: 6 March 1968	4 56 7
5. <u>LOCATION</u> : 21-00-00N 105-49-14E	. 8
6. DESCRIPTION: The plant has about 567,000 square feet of floor plan area. It has a forge and foundry, a machine shop area with five large machine shops, 10 support buildings, and an open storage area. The plant is road-served only.	9 10 11 12
7. SIGNIFICANCE: This installation is the only significant machine tool plant in North Vietnam, accounting for 100 percent of the national capacity of 1200 units a year. Production for 1967 was estimated at 500 units. Tools produced include lathes, milling machines, drills and planers. Production of machine tools has been limited because of the inability of the economy to utilize them. Some of the capacity is used to manufacture simple machinery and irrigation pumps, and to repair machinery. There is no evidence of the manufacture of weapons, but the facilities suggest a potential for producing simple weapons such as grenade launchers and mortars. This plant reportedly produces a small quantity of pig iron for its own use.	13 14 15 16 17 19 20 21 22 23 25
8. TARGET ENVIRONMENT: The target is about ten feet above sea level. It is about 3 NM SW of the center of Ha Noi and 3 NM NE of Ha Dong, on the NW side of the highway connecting the two towns. Many built up areas, mostly industrial, are along the road, particularly SE of the target. Target is on broad, the road, particularly SE of the target on the target in all directions. The plains are intensively cultivated in wetland rice. A small stream flows southward along the NE side of the target and joins the SE-flowing Song Nhue Giang River, 3 NM S of the target. An airfield is located 1 NM E of the target.	26 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30
9. DEFENSE ENVIRONMENT:	37
a. The target is within the SAM envelope.	38
b. AAA has been identified within 3 NM of the target.	39
c. HMO and small armes fire is anticipated.	40
10. <u>DAMAGE OBJECTIVE</u> : Production loss. Damage to machine tools used in manufacturing operations, accompanied by damage to buildings, other equipment, materials in process, and utilities. Damage level is 30 percent.	41 42 43 44
11. EFFECT ON NVN: Although the output of this complex is primarily non-military in nature, a strike achieving 30 percent damage would indirectly tend to reduce war-supporting resources and disrupt economic development.	45 46 47 48

SEC ANT

NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-C-2 (REVISED PY 14TH NOTE TO HOLDERS)

Tab C to Annex D to Appendix F



A	RECUPERAB Or severe equire at	1	WA SOME	MACHINETY	and str	ic cui ea	MIIITOII		1234	
•	• COLLATERA	T. DAMAG	E:		•				5	
-,•			_	rrounding	irea.				6	
		Populat				Casuali	iies*	•	7	
	-•	•		ent Area	Target	Area	Adjacer	nt Area	8	
	Mil	Civ		C1V	Mil	C1v	Mil	C1V	9	
	0	340	0	1900	0	21	0	19	10	
	•	•	-	d under da	ylight al	Lert co	nditions	•	11	:
2.6	RECOMMEN								12	
Areas l	Thinave been on the have been of the have been ed to aching required	s targe combine n compu eve the over t	t is co d for w ted for damage the targ	mprised of reapons appoints area this area e level project are als	three application to she scribed, so shown:	ow the total	effort weapons/		13 14 15 16 17	
weapon	(1) s/sorties	In ord	er to e	chieve a c target:	iamage le	vel or	5 07€,		19	Į
WFAFON	I		500# SNAKE	YE	, ,	o# MG			31 50	
Areas (A, B, and 1000 x 100	C 00)	280	/31	1	45/24			22 23	
-	(2) Larget requ	Weapo	ns/Sort	ies cperat n above:	ionally :	require	d to ach	ieve	25 25	•
				5/37	:	174/29			26	5
weapoi	(3 ns/sorties) In or requir	der to	achieve a target:	damage 1	evel of	70%,		2) 2°	
				5/104		490/82			2	9
achie	(4 ve "over t) Weap	ns/sort	ties opera	tionally wn above:	requir	ed to		3 3	0
				3/125		588/98			3	2
1	5. PROBABI	LITY O	F ACHIE	VING DESIR	ED DAMAGI	LEVEL	50%		3	3



A-D-C-3 (REVISED PY 14TH NOTE TO HOLDERS) Tab C to Armex D to Appendix A



(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:						
	555/47	670/56	268/30	122/21	3	
(3) In ord required over	er to achieve a target:	damage level o	of 70%, weapo	ns/s rles	4 5	
WEAPON '	250# Snakeye	250# or BOMB or	500# BOMB or	750# BOMB		
Areas A, B, and C	1535/128	1850/155	742/83	337/57	. 6	
(4) Weap target" requi	ons/sorties ope rements shown	rationally requabove:	ired to achiev	e "over	7 8	
	1872/156	2256/188	905/101	411/69	9	
1.6 DD OD A BIT 17	TY OF ACHIEVI	NG DESIRED I	DAMAGE LEV	EL: 50%.	16	

TOP ...CRET

A-D-C-4

Tab C to Annex D to Appendix A

(Added by 10th Note to Holders)



	•
1. TARGET NUMBER: 77.1	2
2. <u>BE NUMBER:</u> 616-0706	3
3. IDENTIFICATION: Hai Phong Cement Plant	
DATE OF INFORMATION: 19 July 1968 DATE OF TISD: 11 March 1969 DATE OF PHOTOGRAPHY: 26 January 1965 TATE OF INTELLIGENCE REVIEW: 12 December 1968	4567 8
5. LOCATION: 20-51-44N 106-40-18E, located in NW Hai Phong.	i
6. DESCRIPTION: Target contains a crusher building (F), 3 ill buildings housing 8 kilns (G), about 20 storage/warehouses ill buildings housing 8 kilns (H), 8 cement silos (E), several E, , and D), 4 slurry tanks (H), 8 cement silos (E), several E, , and D), 5 slurry tanks (H), 8 cement silos (E), several E, , and D), 5 slurry tanks (H), 8 cement silos (E), several E, , and D), 5 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H), 8 cement silos (E), several E, , and D), 6 slurry tanks (H),	10 11 12 13 14 15
7. SIGNIFICANCE: This installation is the only cement of the community fortland, and some special cements. It was the community for the community is used domestically.	17 18 19 20 21
on finish of the Cam stream), less than 6 NM upstream from its nouth of the Cam stream), less than 6 NM upstream from its nouth of Gulf of Torkin. Hai Phong is surrounded by flat plain routh of Gulf of Torkin. Hai Phong is surrounded by NW-SE intensively cultivated to wetland rice; plain crossed by NW-SE criented meandering streams, and randomly oriented, interconnecting distributaries and canals; most waterways contained by levees. However on city from all directions; principal road and RR Pords converge on city from all directions; principal road and RR Pords converge on city from all directions; principal road contens of the number of the surface of the street of target site. The surface of the surface of target on the surface of target on the with this approach. Not eity: airfields SE of target on line with this approach. Not target, plain interrupted by low, wooded hills, 130' to 480' above	29 30 31 32 33 35
sea level.	36
9. DEFENSE ENVIRONMENT:	37
a. Target is within SAM envelope.	t. 38
b. AAA activity has been identified within 3 NM of targe	39
c. HMG and small arms fire is anticipated.	40
10. DAMAGE OBJECTIVE: Destruction of the three kiln buildings. Damage level is 30%.	41



Tab Ca To Annex
D To Appendix A
(Revised by 17th Note to Holders)



TAP D TO ANNEX D TO APPENDIX A





1. TARGET NUMBER: 78	1
2. BE NUMBER: 616-0010	2
3. IDENTIFICATION: Hai Phong Phosphatic Fertilizer Plant	3
4. DATE OF INFORMATION: 12 August 1700	4
DATE OF TIS: 13 August 1966	5
DATE OF PHOTOGRAPHY: 23 September 1965	6
DATE OF INTELLIGENCE REVIEW: 26 April 1966	7
5. LOCATION: 2051-24N 106-40-29E, UTM XJ 743074	8
6. DESCRIPTION: The target area contains two processing buildings	9
Al one with a 3-story office/residential section, lour warehouse 10/	10
and five support buildings (B). The facility is served by canal and road.	B1
a second control of the second control of th	12
Viel phosphatic fertilizer by simple processing (c. deming	13
The facilities and processing are nervice.	14
	15
metric tons of fertilizer per year, which is about eight per cent of North	16
Vietnam's estimated total production of 325,000 metric tons.	17
8. TARGET ENVIRONMENT: The target is situated a few feet above	18
A THE WASHINGTON SIDE OF THE INITIAL MAKES UP SHE WESTERN	19
the located in an area of industries promite and	20
modification structures. Hills rise to about 400 lest about 1 thm to the	21
north, and 460 feet about 5 NM to the south and southwest.	22
9. DEFENSE ENVIRONMENT:	23
SAN sites have been identified within SA-2 missile	24
range (17.5 NM) of the target, and 12 additional SAM sites have been	25
identified 18-30 NM distant.	26
b. Identified AAA activity within 3 NM of the target includes 14	27
	28
occupied 57mm/85mm revetments, and il occupied 37mm revetments.	29
occupied 57mm/85mm reverments, and it occupied 57mm reverments, and it	30
There are 7 inactive sites in the initiation of the complex. (DOI: 20 July 1965 - active sites in the entire Hai Phong complex. (DOI: 20 July 1965 -	31
10 April 1966)	32
c. Moderate to intense HMG and small arms fire is anticipated	33
throughout the Hai Phong area.	34



A-D-D-2

Tab D to Annex D to Appendix A

(Revised by 10th Note to Holders)



criterio	n is strand	uctura	ECTIVE: damage to ge to conv	o princi	pal ore	proces	ssing bu	ilding	5 ,	1 2 3 4
ll. limited agricul	reducti	ON Non of the	IVN: Dest	ruction of fertil	of this fizers av	acility ailable	would i	result th Vic	in a tnamese	5 6 7
any of to probable (BE Nu Number	the major ly exist mber 61 r 616-02	r com at the 6-0261 14) for	LITY: No ponents of Hanoi Mac) or at the repair or nent would	this typ thine To Thai N recons	e plant. ol and E guyen Ir truction	Howingines on and of cry	ever, (a ering Eq Steel C shers,	ciliti uipm ombi	es ent Plant ne (BE	8 9 10 11 12 13
13.	COLLA	TERA	L DAMAG	E:						14
	a. Lig	ht dam	age to sur	roundin	g area.					15
	b.	Popu	lation			Car	ualties*	*		. 16
	Target	Area	Adjacent	Area	Target	Area	Adjac	ent A	rea	17
• •	Mil	Civ	Mil	Civ	Mil	Civ	Mil	C	iv	18
	0	. 80	0	7300	0	5	. 0		73	19
	*Casu	alties (estimated	under d	aylight a	lert c	ondition	s.		20
14.			DED WEA							21
be .th	s been cen complete damag	This ta delinea puted f ge leve e also	rget is conted for we or this are l prescrib shown:	mprised apons a ea. To ed, tota	of one application show the law application of the law application o	area (von. We efforms/son	rt requis	red to	achieve lover the	24 25: 26
	requi	(1) In red ove	order to a	chieve a	damage	e leve	of 30%,	, wea	pons/sort	ies 27 28
WEA	PON		250# Snakeye	or	500# BOMB	or	750# BOMB	or	1000# BOMB	
Area	A (250x	(400)	33/3		27/3		14/3		11/4	29.



A-D-D-3

Tab D to Annex D to Appendix A

(Revised by 10th Note to Holders)



(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:							2	
	40/4		33/4		17/3		13/5	3
•	 In order to acled over target; 	hieve	a damag	e leve	el of 70%,	wea	oons/sorties	4 5
WEAPON	250# Snakeye	or	500# BOMB	or	750# BOMB	or	1000# BOMB	
Area A	111/10		91/11		48/8		37/13	6
	4) Weapons/sort		erations	ally r	equired to	achi	eve "over target	;" 7 8
	135/12		111/13		59/10		45/15	9
15 PRO	BABILITY OF AC	HIEV	ING DES	IREL	DAMAG	E LE	VEL: 50%	10

TOP " JRET

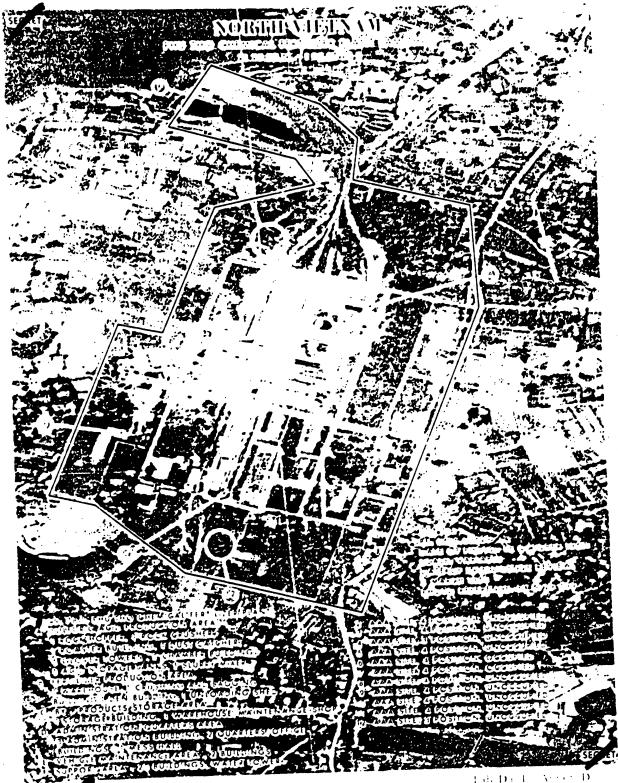
A-D-D-4

Tab D to Annex D to Appendix A

(Added by 10th Note to Holders)

PARIDO DO NO EXIDADO MADERA S

 $\{\Delta RGF, \Gamma^{-1}, O, -\beta\}$



A-D-D (-1 and by 14th N/10



1. TARGET NUMBER: 70.	-	•
2. <u>BE NUMBER</u> : 616-0629	9	2
3. IDENTIFICATION: Ph	u Tho Chemical Fertilizer Plant Lam Thao	3
4. DATE OF INFORMATION DATE OF TIS: 23 AP DATE OF PHOTOGRAPHY DATE OF INTELLIGENCE	īr11 1968	4 5 6 7
5. LOCATION: 21-20-00	ON 105-17-20E	8
aul Austa sold production. I	clant is made up of the following areas: fertilizer production, by-products arters, vehicle maintenance, and and rail served.	9 10 11 12
chemical fertilizer plant in the server of 200,000	s plant was built with Soviet aid, and It is reputed to be the most modern in S.E. Asia. It has an estimated metric tons of superphosphate, or tional capacity, and 36,000 MT of	13 14 15 16 17 18
and extend to dissected plant are about partly wooded, partly cult with peaks 1,000 ft. above target; a large wooded hill	trarget, about 50 ft. above sea level, ultivated plains which border the river ains 1.3 NM NE and 2.6 NM SW of target. 250 ft. above sea level and are ivated. Wooded, NW-SE trending hills, sea level, are located 7 NM SW of 1 reaching 2,200 ft. above sea level is A rail line enters the target from lers the E side of target. Many villages area of the target.	19 20 21 22 23 24 25 26 27 28
9. DEFENSE ENVIRONMEN	<u>rr</u> :	29
a. The target is	within the SAM envelope.	30
b. AAA activity h	has been identified within 3 NM of	31 32
c. HMG and SA fir	re is anticipated.	33
10. DAMAGE OBJECTIVE: sulfuric acid section, mix	Thirty percent structural damage to xing and curing building, and warehouses.	34 35
no direct effect on war-me slight adverse effect on	oss of fertilizer production would have aking potential, but would have a food production. The plant reportedly of national superphosphate requireacid would adversely effect production rtilizers.	36 37 38 39 40 41
12. RECUPERABILITY: ponents of this target co	Thirty percent damage to the vital com- culd not be repaired locally. The plant construct with Soviet assistance, and the mish the equipment and technology to re-	42 43 44 45



SE RET NO POREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-Da-2 (REVISED BY 14TH NOTE TO HOLDERS)

Teb Da to Annex D to Appendix A



13. COLLATERAL DAMA	GE:				1
a. Insignifica	nt	•			2
b. Popula	tion	Casuali	:1es*		3
Target Area	Adjacent Area	Target Area	Adjacent	Area	4
M11 C1v	M11 Civ	Mil Civ	Mil	Civ	5
0 400	0 450	0 24	0	5	- 6
* Casualties	estimated unde	r daylight aler	t conditions	5.	7
14. RECOMMENDED WE	APONS AND SORTIE	<u>us</u> :			8
This installs has been delineated for have teen computed for to achieve the damage required over the target	r weapons applic this area. To level prescribed	show the effort , total weapons	and sorties required		9 10 11 12 13
(1) In order sorties required over	to achieve a de	amage level of 3	0%, weapons.	/	14 15
WEAPON	500# Snakeye	750# BOMB		•	16 17
Area A (250 x 1050)	107/12	154/2	6		18
(2) Weapons/	sorties operation	onally required:	to achieve		19 20
	129/14	185/3			21
(3) In order sorties required over	to achieve a d	amage level of 7	0%, weapons		23 23
•	360/40	520/8	37		24
(4) Weapons/	sorties operati ents shown abov	onally required	to achieve		25 26
	432/48	625/3	104		27
15. PROBABILITY OF	ACHIEVING DESI	RED DAMAGE LEVE	L: 50%		28





500# 750# 1000# 2000# WEAPON BOMB BOMB BOMB BOMB 810/90 583/98 518/173 202/202 (4) Weapons/sorties operationally required to achieve "over target" requirements shown above: 988/110 711/119 632/211 246/246 15. PROBABILITY OF ACHIEVING DESIRED DAWAGE LEVEL: 50%.

TOP CACRET

A-D-Da-4

Tab DA to Annex D to Appendix A

(Added by 10th Note to Holders)



1.	TARGET NUMBER: 79	_
2.	BE NUMBER: 616-0142	2
3.	IDENTIFICATION: Bac Giang Chemical Fertilizer Plant	3
	DATE OF INFORMATION: 2 April 1968 DATE OF TIS: 24 April 1968 DATE OF PHOTOGRAPHY: 15 December 1967 DATE OF INTELLIGENCE REVIEW: 4 March 1968	4567
5.	LOCATION: 21-18-10N 106-12-25E	8
coal ga nitrate and sto water t	DESCRIPTION: The installation is made up of a nitrate/ is production unit, a nitric acid production area, a production area, a storage area, a fertilizer production prage area, two pumphouse and water intake areas, a preatment area, and a possible phosphate production The plant is road, rail, and water served. The Bac Thermal Power Plant, JCS 82.26, 0616-00699, is co- it.	9 10 11 12 13 14 15 16
plant v 1966, l is est: per year believe	SIGNIFICANCE: This modern nitrogenous fertilizer was completed with Chinese aid in the first half of out apparently never got into production. Capacity imated at 100,000 metric tons of chemical fertilizer ar, 28 percent of estimated national capacity. It is ed to produce other chemicals for agricultural and rial use.	17 18 19 20 21 22 23
level, flowin plains small, 20 ft. and so 5.0 NM	TARGET ENVIRONMENT: Target, about 10 ft. above sea is 2.0 NM N of Fac Giang and 0.2 NM E of the SE-g Song Thuong (river). Target is on rice-cultivated which contain many low, terraced hillocks and many compact villages. Hillocks are generally less than higher than the plains. Belt of E-W trending, grass-trub-covered hills, 7.0 NM long and 1.5 NM wide, located S of target; maximum height 860 ft. above sea level. small, grassy, nearly contiguous hills begin 1.5 NM target and extend SW for 3.0 NM; maximum elevation to above sea level.	24 25 26 27 28 29 31 33 33 34
9.		35
	a. The target area is within the SAM envelope.	36
of th	b. AAA activity has been identified within 3 NM e target.	37 38
	c. HMO and SA fire is anticipated.	39
produ prince the s	O. DAMAGE OBJECTIVE: Disruption of process operations and action loss. Damage criterion is structural damage to sipal processing units and major buildings, especially ammonia synthesis and nitric acid buildings. Damage 1 is 30 percent.	40 41 43 44



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-E-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tab E to Annex D to Appendix A



						• :
11. EFFECT ON NVN: ntial, but would be ne economy.	Little direct major loss to	effect on the agricu	war-ma ltural	king sector		1 2 3
12. RECUPERABILITY: ttack capability wo orth Vietnam is not onents. Replacemen pment would require r from Communist Ch ments of new proces	known to manu t of even mino imports of ma	facture any r portions terial and tion. testi	of the skille	ne major Ls		4567890
13. COLLATERAL DAMA						11
a. Light damag		lng area				12
	lation		asmal	ties#		13
	Adjacent Area	a Target	Area	Adjacent	Area	14
		A NIT		MII	Civ	15
0 780		0 0	47	0	41	16
	estimated unde	r daylight	alert	condition	ns.	17
14. RECOMMENDED WE						18
14. RECOMMENDED "-			00 0	areas. T	hree	19
This is a shave been deline sorties have been	large facility sated for weap computed for	comprised ons applicate each area.	To sh	ow the		20 21 22 23
This is a as have been deline sorties have been ort required to ach pons/sorties required.	large facility sated for weapon computed for entire the damage red over the to	r comprised ons applicate each area. ge level prarget are a e a damage	To sh escrib lso sh	ow the ed, total		20 21 22 23 24 25
This is a as have been deline sorties have been ort required to act pons/sorties required. (1) In or pons/sorties required.	large facility sated for weapon computed for entire the damage red over the to	r comprised ons applicate each area. ge level prarget are a e a damage	To sh escrib lso sh	ow the ed, total cown: of 30%,		20 21 22 23 24 25 26 27
This is a shave been deline sorties have been rt required to acrons/sorties	large facility eated for weapon computed for entire the damage red over the to rder to achieve red over targe	r comprised ons applicate each area. ge level prarget are a e a damage	To shescrib lso sh level	ow the ed, total cown: of 30%,		20 21 22 23 24 25 26 27 28
This is a s have been deline sorties have been rt required to acrons/sorties required to acrons/sortie	large facility sated for weapon computed for entire the damagement over the termination of the computed over target 500# SNAKEYE	r comprised ons applicate each area. ge level prarget are a e a damage	To shescrib lso sh level 750 BON	ow the ed, total cown: of 30%,		20 21 22 23 24 25 26 27 28
This is a shave been deline sorties have been deline required to ach cons/sorties required to ach cons/sorties requirements on the cons/sorties requirements of the c	large facility sated for weapon computed for entire the damagement over the terms over the terms over target 500# SNAKEYE 84/9	r comprised ons applicate each area. ge level prarget are a e a damage	To shescrib lso sh level 750 BON	ow the ed, total cown: of 30%, ## ## /8		20 21 22 23 24 25 26 27 28 29
This is a shave been deline sorties have been deline required to ach cons/sorties required to ach cons/	large facility sated for weapon computed for entire the damagered over the terms over the terms over target 500# SNAKEYE 84/9 102/11 69/8 255/28	comprised one applicate ach area. Se level prarget are a damage t:	To shescribles show the second	ow the ed, total cown: of 30%, 0# 08 /10 /7 /25		20 21 22 23 24 25 26 27 28 29 30 31
This is a as have been deline sorties have been deline sorties have been ort required to ach pons/sorties required to ach pons/sorti	large facility sated for weapon computed for entire the damage red over the terred over targe 500# SNAKEYE 84/9 102/11 69/8 255/28	comprised ons applicate ach area. See level prarget are a damage t:	To shescribles show the second	ow the ed, total cown: of 30%, 0# 08 /10 /7 /25		20 21 22 23 24 25 26 27 28 29 30 31 32 33
This is a sorties have been deline sorties have been deline required to ach cons/sorties required to ac	large facility sated for weapon computed for entire the damage red over the terred over targe 500# SNAKEYE 84/9 102/11 69/8 255/28	comprised ons applicate ach area. See level prarget are a damage t:	To shescribles show the secrit so she show the secrit shows the secrit sho	ow the ed, total cown: of 30%, 0# 08 /10 /7 /25		20 21 22 23 24 25 26 27 28 29 30 31 32 33
This is a shave been deline sorties have been deline sorties have been ort required to achieve require (1) In or cons/sorties required to achieve requirements (2) Wear target required (2) Wear target requirements (2) The sorties requirements (2) The sorties requirements (2) The sorties requirements (3) The sorties requirements (4) The sorties requirements (5) Th	large facility sated for weapor computed for entered for entered over the target 500# SNAKEYE 84/9 102/11 69/8 255/28 pons/sorties or ements shown at 306/34	comprised ons applicate the constant area. The constant area area area area area area area are	To sh escrib lso sh level 750 BON 51, 43, 155 y requ	ow the ed, total cown: of 30%, 0# 0B /8 /10 /7 /25 dired to a		20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
This is a shave been deline sorties have been rt required to acrons/sorties	large facility sated for weapor computed for entered for entered over the target 500# SNAKEYE 84/9 102/11 69/8 255/28 pons/sorties or ements shown at 306/34	comprised ons applicate the constant area. The constant area area area area area area area are	To shescribles show the secrit secret show the	ow the ed, total cown: of 30%, 0# 0B /8 /10 /7 /25 dired to a		20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
This is a shave been deline sorties have been deline sorties have been ort required to achieve require (1) In or cons/sorties required to achieve requirements (2) Wear target required (2) Wear target requirements (2) The sorties requirements (2) The sorties requirements (2) The sorties requirements (3) The sorties requirements (4) The sorties requirements (5) Th	large facility sated for weapor computed for entered for entered over the target 500# SNAKEYE 84/9 102/11 69/8 255/28 pons/sorties or ements shown all 306/34 order to achiever achiever achiever shown all achiever sh	comprised ons applicate the constant area. The constant area area area area area area area are	To shescribles she level 750 801 51, 61, 43, 155 y required the level 173	ow the ed, total lown: of 30%, #### /8 /10 /7 /25 ired to a 5/31 L of 70%,		20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
This is a as have been deline sorties have been deline sorties have been ort required to ach pons/sorties required to ach pons/sorti	large facility sated for weapon computed for entered for entered over the damage red over the tered over targe 500# SNAKEYE 84/9 102/11 69/8 255/28 pons/sorties on ements shown all 306/34 order to achieve ired over targe 283/31	comprised ons applicate the constant area. The constant area area area area area area area are	To shescribles show the scrib so show the scrib so show the scrib	ow the ed, total cown: of 30%, 0		20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



A-D-E-3 (REVISED BY 14TH NOTE TO HOLDERS) Tab E to Annex D to Appendix A



"over target"	(4) Weapons/sorties operarequirements shown above:	tionally required to achieve	2
0102 102801	1030/115	628/105	3
16 DDABA1	BILITY OF ACHIEVING DESIRED	DAMAGE LEVEL: 50%	. 4

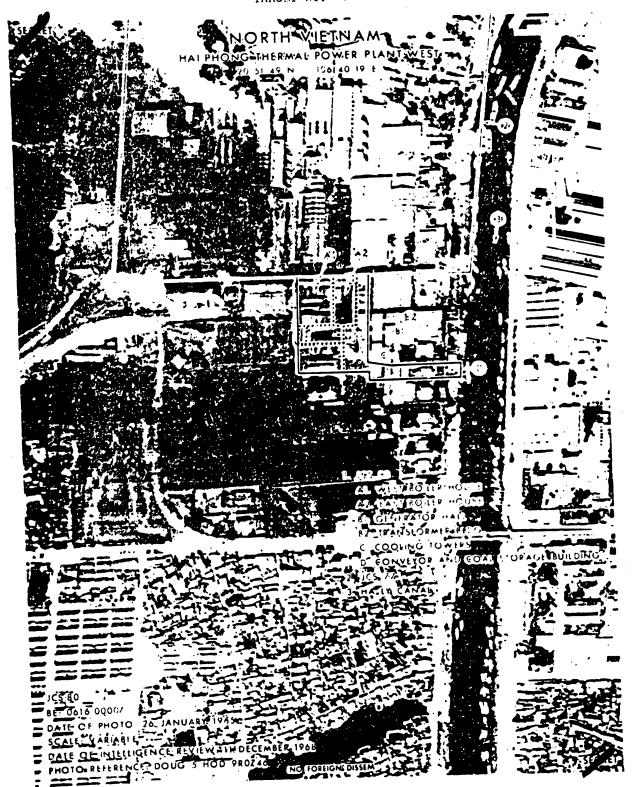
SEC AND

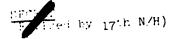
THE REPORT OF THE PARTY OF THE

A-D-E-4 (REVISED BY 14TH NOTE TO HOLDERS) Tab E to Annex D to Appendix A



TAB F TO ANNEX D TO APPENDIX A TARGET NO. 50





A-D-F-1

Tab F to Annex L to Appendix A



	1
TARGET NUMBER: 20	2
BE NUMBER: 616-0007	3
IDENTIFICATION: Hai Phong Thermal Power Fland Web	4
DATE OF PHOTOGRAPHY: 26 January 1965	567
DATE OF INTERDIGENCE REVIEW: 11 December 1900	8
16 16 16 17 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	9
of Hai Photo.	10
DECORIPTION: This thermal power plant of 10,000 km. (JCS #77.1).	11 12
	13
reperator hall, two large works and miscellaneous	14 15 16
their conveyor and barge off-loading lattity, served by rail,	16
relighter and equipment. The target area is served of the constructed primary road and water way. Blast walls are teing constructed around generating familities and boiler houses.	17
nower plants in the	18
This is one of the larger power plants in the actional capacity. Supplies electric living about 5% of the national capacity.	50 13
the state of the s	21
THE THE THE THE THE THE TARGET IS located on the South Side	22
the in Proper Smerit Plant Company and Ametaliations of the	23 24
Urban obstructions of Hai Phong lie within one was	25 26
the target,	26 27
THE TAX TO SEE THE PARTY OF THE	28
were the Hai Phong Highway Bridge 1,000 the target area newer that. The first, level terrain surrounding the target area in the H by low, wooded, hills rising from 130' to	29 30
the internation in the a by long acceptance of the control of the	•
TO THE ENGINEERS	31
The target is within the SAM envelope.	32
b. AAA activity has been identified within 3 NM of the target.	33
L. AAA activity has been identified within	34
. HMG and small arms fire is anticipated.	_
nome or terion is	35 36
ra lamage to power priming and control	37 38
t generating units, boilers, transformers, level is 70%.	50
POST DEGIT THE GARLET TO THE CONTRACT OF THE C	



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-F-2

Tab F to Annex D to Appendix A

(Revised by 17th Note to Holders)



ant. pply o	EFFECT ON power pl The secononly a par the Hai Pripyards,	ant in d power t of th	plant in require	Hai Piements	nong (JC of the c	s #82.1 ement p	12) could lant and ling the	l would	3 5 6
i2. quire	RECUPERAB from 4 to on after of land repay	BILITY: 12 more	Restoration The on an en	ion of e power mergenc Recon	the tran plant o y basis struction	sforme:	r would ume part	ial to full	7 9 10
:	TOLLATERA							• .	12
	a. Incl	្តារ ់ ព ិខាន	ut į		•			•	13
			olation			Casualt			14
				Àrea	Target	Area	Adjace	nt Area	15
			M11		M11		M11	Civ	16
	•	35	G	300	0	2	C	3	17
	• Mashalt		inated u		ylight a	lert co	ondition	5.	18
									1.
1	STORMEN	()): Ata							
nesc) om te:	have been here here the control of t	get in deline m. comp namage ne targ	comprise sated for level pre et are al	d of 4 weapon this ar scribed so show	areas. s applicea. To , total	show t weapon	he effor s/sortie	t required s	201 201 201 201 201 201 201 201 201 201
resc) erite: and enulr	Into the name heer here they they are the are they are they are the are they are they are they are they are the are they are they are they are they are they are they are the are they are the are they are the a	wet in deline momphismage tare	comprise gated for level pre et are al	d of 4 weapon this ar scribed so show	areas. s applicea. To , total	show t weapon	he effor s/sortie	t required s	21 22 24 25 26
posi) Orile: And equir	Into the make been these these these developer the second second the second sec	whet is delined to comprise the target of targ	comprise gated for level pre et are al	d of 4 weapon this ar scribed so show the da	areas. s applicea. To , total n: mage le	show t weapon vel of	he effortie	t required s .pons/	21 22 21 25 26 27 28
ensu) united add edute edute (MAPON	Into the make been the select the	wiet in deline en comprismage he targe criter to cover	comprise sated for level prest are all continues are all continues the continues are all continues are	d of 4 weapon this ar scribed so show the da 500 SNA	areas. s applicea. To , total in: image le KEYE or	show t weapon vel of 5004 BOMI	he efforts/sortie	t required s pons/ po# pomb	21 22 23 24 25 26 27 28 29 30
prodi) Orties and endit offe MAPON Greas	Into the make been the select the	get in deline of comprise targe care targe care targe care targe care target ta	comprise sated for lited for level preet are all cachieve target: 50# NAKEYE C	weapon this ar scribed so show the da 500 SNAI	areas. s applicea. To , total in: image le KEYE or	show t weapon vel of 5004 BOMI	he efforts/sortie 70%, wes 70% or Bo	t required s .pons/	21 22 23 24 25 26 27 28

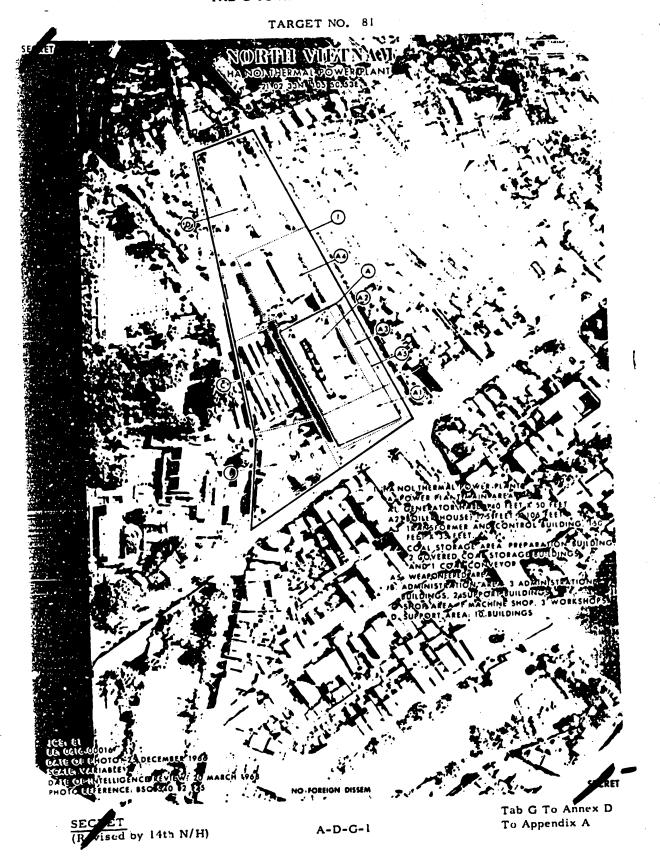


Λ-D-F-3

(Revised by 17th Note to Holders)

Tab F to Annex D to Appendix A

TAB G TO ANNEX D TO APPENDIX A





1. TARGET NUMBER: 81	
2. BE NUMBER: 616-0016	;
Thermal Power Plant	3
	4 5
DATE OF TIS: 22 March 1968	5 6
DATE OF PHOTOGRAPHY: 25 December 1907	7 ·
DATE OF INTELLIGENCE REVIEW: 15 March 1968	•
	8
6. DESCRIPTION: This thermal power plant has an installed capacity of	9
	10
	11
of 250 feet by 700 feet, and consists of: intersection with two stacks, generator five smokestacks, an auxiliary boiler house section with two stacks, generator specific smokestacks, an auxiliary pool storage area with conveyor system,	12
five smokestacks, an auxiliary boller house section with conveyor system, hall, transformer and control building, coal storage area with conveyor system,	13
hall, transformer and control building, tour storage and are of concrete and and support buildings. The boiler house and generator hall are of concrete and and support buildings.	14
brick construction and are partially enclosed by a construction and are partially enclosed by a construction	15
ment.	16
7. SIGNIFICANCE: This target is the largest power plant in the NVN	17
7. SIGNIFICANCE: This target is the only major power plant in comprising 17% of the national capacity and is the only major power plant in	18
	19
national military control centers and key military to plant also supplies	20
national military control centers and key instances. The plant also supplies industrial, governmental, and public consumers. The plant also supplies industrial alternate and peak load power throughout northeast NVN to military and industrial	21
facilities including ports and naval repair yards.	22
and the second in the northern part of	23
8. TARGET ENVIRONMENT: The target is located in the target is mostly residently of the target is mostly residently in the located in the loca	24
the built up area of the city of Ha Not, situated on low thet great is mostly residen- of approximately 10 feet. The immediate vicinity of the target is mostly residen-	25
of approximately 10 feet. The immediate vicinity of the target and the southeast. The plant tial. A north-south railroad line passes 2,000 feet to the southeast. The plant tial. A north-south railroad line passes 2,000 feet southwest of the Red River.	26
tial. A north-south railroad line passes 2,000 feet to the Southwest of the Red River. is 540 feet due east of Truc Bach Lake and 2,000 feet southwest of the Red River.	27
9. DEFENSE ENVIRONMENT:	
a. The target is within the SAM envelope.	28
b. AAA activity has been identified within 3 NM of the target.	29
c. HMG and small arms fire is anticipated.	30
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to station buildings with accompanying damage to turbo-generators, boile transformers, switching and control equipment, and auxiliary components. Damalevel is 70 percent.	1 31 rs, 32 age 33 34

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-G-2 (REVISED BY 14TH NOTE TO HOLDERS) Tab G to Annex D to Appendix A SP RET

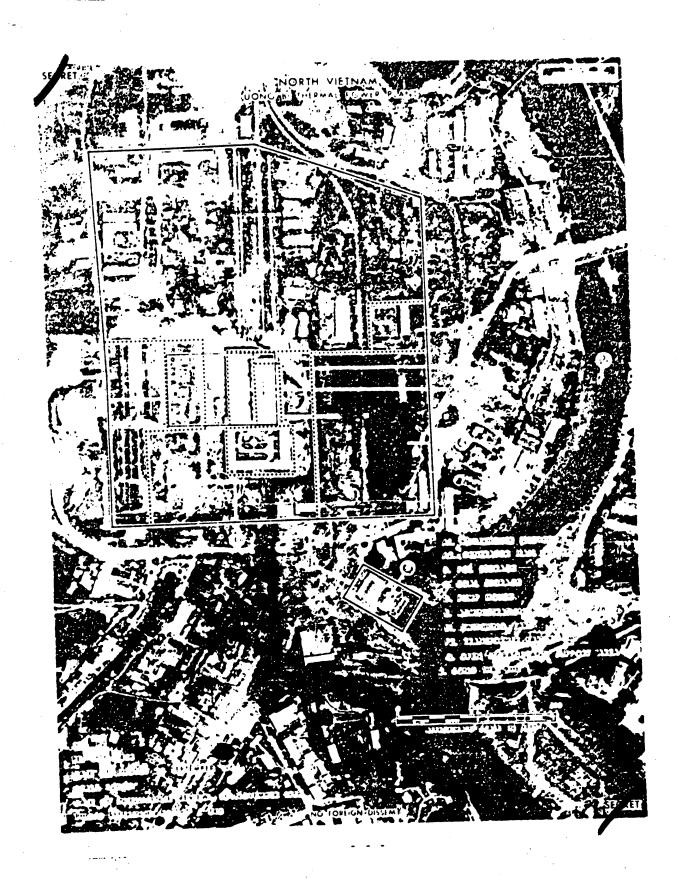
11. EFFECT ON NVN: Destrajor generating installation locale available supply of electricity ide area. Sufficient electric potentially could be obtained from the Uong Bi (BE No. 616-0438) ri (BE No. 616-0380) Powerplaf the Ha Noi Powerplant, however areas normally supplied by the 12. RECUPERABILITY: Designe months for partial restoration in the months for partial restoration in the country four months for 13. COLLATERAL DAMAGE	ated within Hay for military wer to offset; in the national of the national of the following struction of the for complete recomplete recomplet	Not and and indu loss of the transmism (BE Nort to coult in a cons. The target the form of the target the	would strial father Ha Nossion neto. 616-0 mpensate deficience would restrike of the strike of the s	gnifican cilities (i Power work, s 382), an e for des y of elec-	itly reduce over a plant erved d Viet struction ctricity ix to	1 2 3 4 5 6 7 8 9
						13
a. Light damage to sur	rounding area.	•	.	. 1 A I = = Jh		
b. Population	•			llties#	• .	
Target Arca Adja	cent Area	Targe	t Area	Adjace	nt Area	14
Mil Civ Mil	Civ	Mil	Civ	Mil	Civ	15
0 75 0	1400	. 0	5	0	14	16
#Casualties estimated	d under daylig	ht alert	condition	18.		17
14. RECOMMENDED WEAT						
This target is comp been delineated for weapons app for this area. To show the effor total weapons/sorties required (1) In order to ach required over target:	olication. We be required to over the targo	apons an achieve et are al	the dam	age leve	een compute el prescribe	18 d 19 d, 20 21 22 23
, required over	500#		75	0#		
Weapon: Sr	akeye		В	omb		
Area A (weaponeered portion) (140' x 230')	5/1		<u> </u>	3/2	,	24
Totals:	5/1		ı	3/2		25
(2) Weapons/sorti	es operationa	lly requi	ired to a	thieve "	over target'	26 27
	6/1		•	16/3		28
15. PROBABILITY OF AC	HEVING DE	SIRED D	AMAGE	LEVEL	: 50%	29

SECRET

のなどの情報的ないられているとのです。

(REVISED BY 14TH NOTE TO HOLDERS)

Tab G to Annex D to Appendix A





1.	TA	R	GE	T	N	U M	В	E	R	:	82
----	----	---	----	---	---	-----	---	---	---	---	----

- 2. <u>BE NUMBER: 616-0438</u>
- 3. IDENTIFICATION: Uong B. Thermal Power Plant
- 4. DATE OF INFORMATION: 40 September 1968

 DATE OF TISD: 24 January 1969

 DATE OF PHOTOGRAPHY: 23 September 1965

 DATE OF INTELLIGENCE REVIEW: 43 November 1968
- 5. 1.OCATION: 21-02-15N 106-47-27E, recated 14 NM NE of Ha. 1966mg.
- 6. DESCRIPTION: Thus the river plant has an installed constitution of the 24,000 km. The plant consists of a boiler house with 2 boilers, a 150° smoke stack, a generator half containing 2 generators, a transformer yard, a coal storage area with conveyor, 8 POL tanks, and numerous warenesses and support buildings. A concenser/water intake and pump house as located at the river. Blast walls are under construction to protect existing power generating facilities.
 - 7. SIGNIFICANCE: One of the largest power plants in the country comprising about 16% of the national capacity. The power mark supplies the bulk of its power promotion to it. A. No. by a 110 s. Tinsmission line is nucleion to the Ha No. Transfermer Station Dong Am (Primamer too 0545) (JCS No. 82,24) and most of its remaining electricity is traisment to Ha Phong by a 110 ky line.
 - 6. TARGET ENVIRONMENT: The target is located in the cell part of Uong Br. 1200' NW of a river and 1200' E of a rearroad line, of about 46' above sea level. The area lies on a narrow plain is tween a flat, swampy area to the S and fills to the N which rise to an elevation of 1600' to almost 1800' within 3 NM.

9. DEFENSE ENVIRONMENT:

- a. The target is within the SAM envelope.
- b. AAA fire has been identified within a NM or the target.
- c. HMG and small arms fire is anticipated.
- 10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to station buildings with accompanying damage to turbo-generators, boilers, transformers, and auxiliary components. Damage level is 70 percent.
- 11. EFFECT ON NVN: Destruction of this target would eliminate a major source of electric power to Ha Noi and Hai Phong. The target supplies one-quarter of the power requirements of Ha Noi and one-third of those of Hai Phong.

SECKET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

8-11-C-Y

(Revised by Tath Note to Bolders)

Carrier Dista Carrier Dista Capper Street 31

1 is

12. RECUPERABILITY: Destruction of the power plants transformer yard would prevent operation for a period of from 9 to 12 months. Major camage to the power plant structures, boilers, or generator units would require a period of from 15 to 22 months for partial restoration and 46 months for complete restoration.

13. COLLATERAL DAMAGE:

р

a. Light damage to surrounding area.

).	Popul	ation		Camplica				
Target	Arca	Adjuce	nt Area	Target	Arca	Adjaces	nt Arva	
Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	
C	35	0	400	0	2	. 0	**	

*Casualties estimated under daylight alert conditions.

14. RECOMMENDED WEAPONS AND SORTIES:

This target is comprised of 7 areas. One area (which includes portions of 2 target areas) has been delineated for weapons application. Weapons and sorties have been computed for this area. To show the effort required to achieve the expected damage. Total weapons/sorties required over the target are also shown:

(1) in order to achieve a damage level of 70%, weapons/sorties

required over target:					
WEAPON	250# Snakeye of	500# Snakey e	500# or BOMB or	750# BOMB	<u></u>
	•			•	45
Areas A and F (335' x 230')	8/1	8/1	15/2	15/3	٦٦
(2) Weap	ons/sorties operati	onally requir	ed to achieve "o	over target"	5 26
requirement shown a	pove:				
	10/1	10/1	18/2	18/3	27
•					

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%



A-11-11-3

(Reyland by loth Note to Holders)

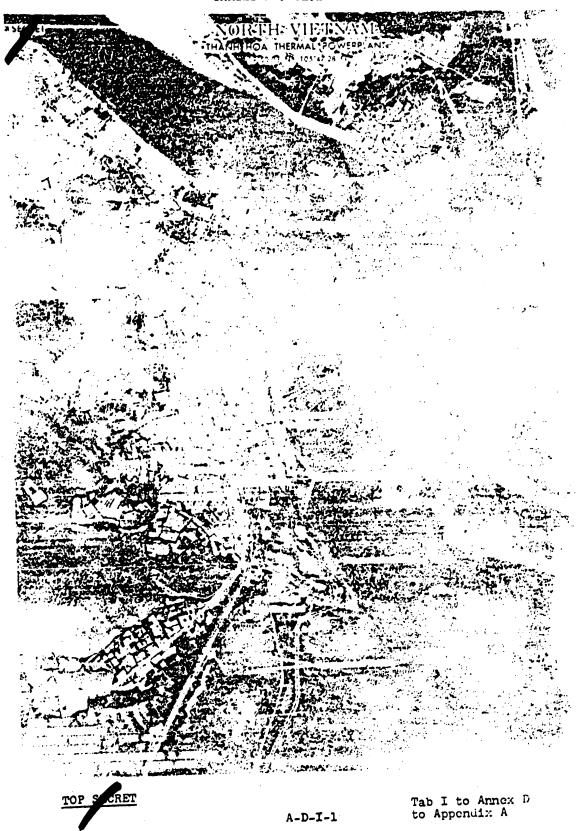
Appendix A

۲,

:2

TAB I TO ANNEX D TO APPENDIX A

TARGET NO. 82.1



76)

1. TARGET NUMBER: 82.1	1
2. <u>BE_NUMBFR</u> : 617-0533	2
3. IDENTIFICATION: Thanh Hoa Thermal Power Plant	3
4. DATE OF INFORMATION: 31 March 1965 DATE OF TIS: 20 June 1966	4 5
5. <u>LUCATION</u> : 19-50-03N/105-47-28E, UIM WG 826931	6
5. <u>DESCRIPTION</u> : Target area consists of: generator hall/multi-story boiler house with one tall smokestack, transformer yard, possible water pump house, and five supporting buildings. The target area is approximately 525 x 390 feet.	7 8 9 10
7. SIGNIFICANCE: This thermal power plant has an installed capacity of 5,000 kilowatts, comprising about three percent of the current national capacity. It supplies power to industrial installations in Ham Rong (19-51N/105-46E) and the town of Thanh Hoa. Expansion of plant capacity to about 10,000 kilowatta is scheduled.	11 12 13 14 15 16
8. TARGET ENVIRONMENT: Target, about 15 feet above sea level, is about 2.0 NM NNE of the center of Thanh Hoa, 0.3 NM W of the SCE-flowing Song Ma (river) and 0.2 NM E of the base of an isolated, grassy hill which reaches 400 feet above sea level. Very low hillocks are located 0.3 NM north of target. Terrain otherwise consists of broad, flat plains cultivated in wetland rice. Target is 6.2 NM WNW of the broad mouth of the Song Ma.	17 18 19 20 21 22 23 24
9. <u>DEFLUSE ENVIRONMENT</u> :	25
a. AAA defenses in the target vicinity include 24 accupied light (14.5mm-37mm) AAA positions located within 0.6 NM of the target. Additionally, there is an unoccupied 57mm/85mm position at one of the aforementioned sites and an inactive 5-position (light) AAA site located approximately 3.2 NM south of the target. Numerous AW positions may be located in the vicinity of the target, due mostly to its proximity to the bridge crossing the Song Ma. (DOI: 13 & 21 February 1965).	26 27 28 29 33 33 33 34
b. The 269th Independent Infantry Regiment and the 57th Infantry Regiment of the 304th Division are located at Thanh Hoa. Additionally, the 486th Coastal Security Battalion is located at nearby Sam Son, approximately 7 NM southeast of Thanh Hoa.	35 36 37 38 39
c. Within 5 NM of Thanh Hoa (19-48N/105-47E) are located two confirmed radars, a RUS-2 and a SCR-270. At My Duc, about 10 NM northeast, there is a CROSS-SLOT radar.	1 40 41 42
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is atmictival lawage to plant buildings with accompanying damage to generators, sollers, transformers, and auxiliary components. Damage level is 70 percent.	45 44 45



A-D-I-2
Tab I to
Annex D to
Appendix A
(Revised by 8th Note to Holders)

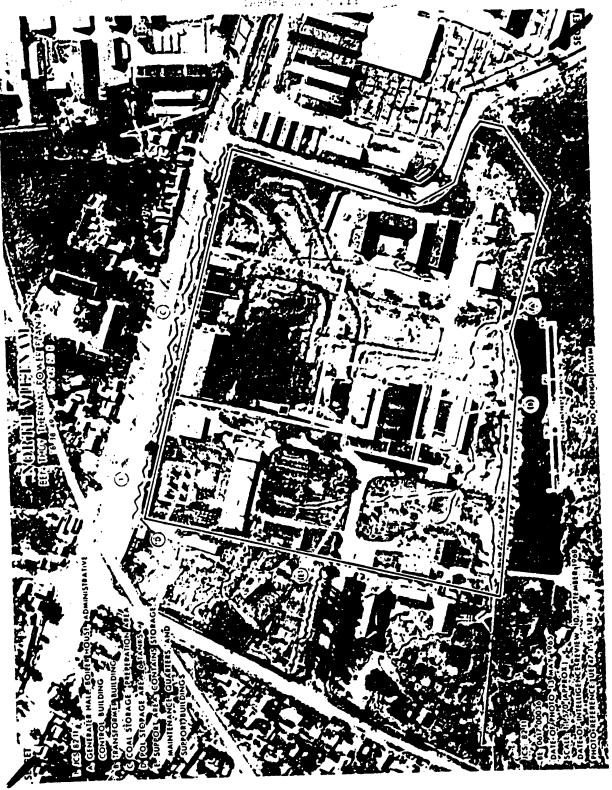
TOP LORET

11. EFFECT ON (4): Desliminate the only source adequately supply present industries in Ham Rong.	e of electri	c nower las	rge enough to	1234
12. RECUPERABILITY: Is structures, boilers, ger would require a period crestoration. Units now would be available by the equipment.	merator unita of from twelv on order for	s, and trans /e to fifte r scheduled	en months for expansion	76 78 9
13. COLLATERAL DAMAGE surrounding buildings.	: Light to	moderate da	mage to	11 12
14. RECOMMENDED WEAPO	HS AND SORTI	<u>ES</u> :		13
a. In order to ac weapons/sortles requ	hieve the de	sired damag	e level of 70%,	14 15
250# Weapon <u>SNAKEYE</u> or	250# BOMB or	500# BOMB or	750# BOMB	
7/1	17/1	17/2	17/3	16
b. Weapons/sortic	es operations rements show	ally require above:	ed to achieve	17 18
9/1	21/2	21/3	21/4	19
15. PROBABILITY OF A	CHIEVING DES	IRED DAMAGE	LEVEL: 50%	20

TOP LERET

. • •

D-I-3 Tab I to Annex D to Appendix A TABLE I ANNUAL TO APPRILIT A



A-5-1-1

Tebrality Angework to Appendix a

771



1. TARGET NUMBER: 82.11	-
2. B.E. NUMBER: 0617-0036	2
3. IDENTIFICATION: Ben Thuy Thermal Power Plant	3
4. DATE OF INFORMATION: 31 August 1968 DATE OF TISD: 20 November 1968 DATE OF PROTOGRAPHY: 13 May 1965 DATE OF INTELLIGENCE REVIEW: 10 September 1968	4 5 7
5. LOCATION: 18-38-49N 105-42-20E. The target is located	d 8 9
6. DESCRIPTION: This coal-burning powerplant was completed in 1959 with a total installed capacity of 8,270 km, including a 270-km diesel unit. The target consists of a 4-story one-stack concrete boiler/generator building, transformer building, coal storage with conveyor, 6 POL tanks, and approximately 10 support buildings. The boiler/generator building contains 3 boilers, 2 steam-generating units, and a small diesel unit. The powerplant is served by a primary road. Target area is approximately 1,000 x 650 feet. Blast walls under construction to protect power generating facilities	13 14 15 16 17 18
7. SIGNIFICANCE: One of the more important powerplants in North Vietnam, comprising about 5% of the national capacity in 1964. The plant supplies power to the industrial and military installations in the Ben Thuy and the Vinh Areas and to the Ben Thuy port facilities.	20 / 21
8. TARGET ENVIRONMENT: The target is located in the SE part of Ben Thuy, situated on low, flat ground at an elevation of approximately 10'. The Song Ca River is located about 400 yards to the E. A number of military and industria installations are located to NW, NE, and SE. A small hilly area over 300' in elevation is located 0.15 NM SW of the	25 26 27 1 28 29 30 31
9. DEFENSE ENVIRONMENT:	32
a. Target is within the SAM envelope.	33
b. AAA activity has been identified within 3 NM of the target.	34 35
c. HMC and small arms fire is anticipated.	36
10. DAMAGE OBJECTIVE: Production loss. Damage criteric is structural damage to plant buildings, with accompanying damage to generators, boilers, transformers, and auxiliary components. Damage level is (Cf.).	39 40
11. EFFECT ON NVN: Destruction of the target will deprive Vinh and Ben Thuy of electric power and will eliminate one of the few significant powerplants available in the southern half of North Vietnam.	41. 42 43 44

SERET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING



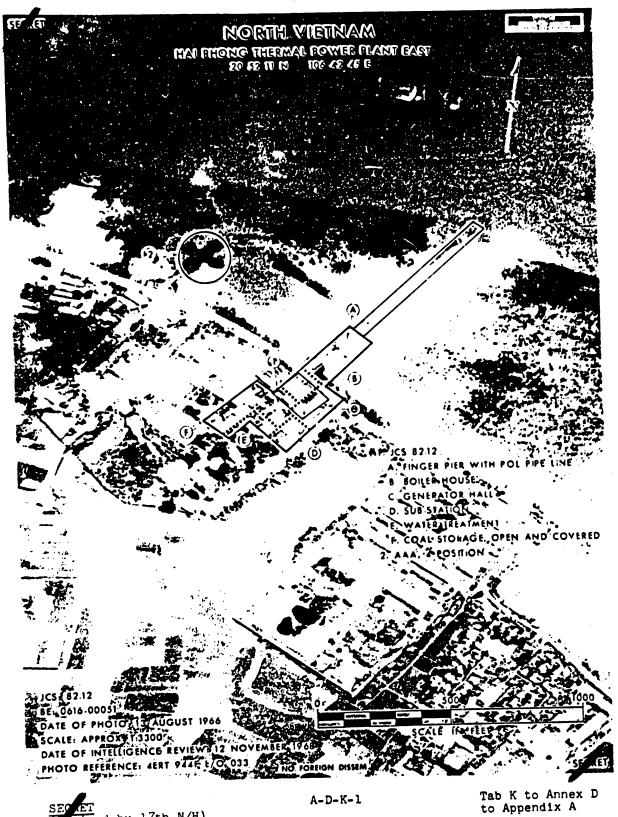
an operat	e on an er ipment at	LITY: Withinergency bas about 50% o ed in about f equipment	is, ut f norm 2 year	ilizing al capa s after	city. the i	Full car	•	12345
	COLLATERAL							6
a. Light to moderate damage to surrounding buildings.								7
· ·	b. Population			Casualties*				8
•	Target Are	a Adjacent	Area	Target	Area	Adjacent	Area	9
•		v Mil	Civ		Civ		Civ	
	0 4	5 5	1/10	0	3	0	2	11
•	*Casualtic	es estimated	under	daylig	ht ale	rt condi	tions	12
		ED WEAPONS A			•			13
This target is comprised of 5 areas. One area (which includes 2 component areas) has been delineated for weapons application. Weapons and sorties have been computed for the area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:							16 17	
(1) In order to achieve a damage level of 70%, weapons/sorties required over target:								51. 50
WEAPON		250#	500		500# BOMB	750# or BOMB		23 23
Power Pla	ant 150')	6/1	6/1		15/2	15/3		24 25
(2) Weapons/sorties operationally required to achieve "over target" requirements shown above:								26 27
CHILETC	0.00	8/1	8/1		18/2	18/3		28
15.	PROBABIL	ITY OF ACHIE	VING D	ESIRED	DAMAGE	LEVEL:	50%	29



#82.11



TAB K TO ANNEX D TO APPENDIX A TARGET NO. 32.12



Vised by 17th N/H)



1.	TARGET NUMBER: 82.12	1
2.	BE NUMBER: 616-0051	2
3.	IDENTIFICATION Hai Phong Thermal Power Plant East	3
4.	DATE OF INFORMATION: 18 July 1968	4
••	DATE OF TISD: 11 March 1969	5
	DATE OF PHOTOGRAPHY: 13 August 1966	6
	DATE OF INTELLIGENCE REVIEW: 12 November 1968	7
5. Phong.	LOCATION: 20-52-11N 106-42-45E, located 1.7 NM E of Hai	8
	DESCRIPTION: The target area consists of a boiler house	10
		11
		12
transfo	tor hall occupy a total area of 210' by 75'. The power plant is	13
served	tor hall occupy a total area of 210° by 75°. This power percentage by primary road and finger pier. The target area is approximately by 1,000°.	y 14 15
	The name plant has an installed capacity of	16
		17
7,000	kilowatts, comprising about 5% of the library of two power generating installations in Hai Phong but is some of two power generating to the other plant. Hai Phong	18
		19
Thern	imary supplier of power to the town. The character of power mainly to the hall Power Plant West (JCS # 80), provides power mainly to the ht plant.	20 21
		22
	TARGET ENVIRONMENT: Target is a few feet above sea level located on the S bank of the SE flowing Cua Cam (river). 1.7 NM	23
and is	the center of Hai Phong. It is situated on the intensively rice-	24
NE of	the center of Hai Phong. It is situated on the streams, canal ated Red River Delta plain. The plain is laced with streams, canal ated Red River Delta plain.	a, 25
and d	itches. Mangrove swamps octoby and the SE. Target is served by a Gulf of Tonkin is about 10 NM to the SE. Target area is sparsely	27
		28
road	extending W to Hai Phong. The general base hill is located up and is primarily industrial. A 480-foot high hill is located	29
built-	IM NW of the target.	30
	DEFENSE ENVIRONMENT:	31
	a. The target is within the SAM envelope.	32
	b. AAA activity has been identified within 3NM of the target.	33
	c. HMG and small arms fire is anticipated.	34

NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-K-2

Tab K to Annex D to Appendix A

(Revised by 17th Note to Holders)



10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to power plant buildings with accompanying damage to generators, boilers, transformers, switching, and control equipment, and auxiliary components. Damage level is 70%. 11. EFFECT ON NVN: Destruction of the target would eliminate the main power supply to the urban area. Additional supplies are available from the other power plant in Hai Phong (JCS # 80), Hon Gai Thermal Power Plant (JCS # 82.13), and the Uong Bi Thermal Power								1 2 3 4 5 6 7 8
Plant (JCS # 82). 12. RECUPERABILITY: Destruction of the power plant structures, boilers, generator units, and transformer would require a period of from 12 to 15 months for restoration. Units now on order for expansion of the plant would be available by this time for replacement of damaged equipment.							ion	9 10 11 12 13 14
13. COLLA	TERAL DA	MAGE:						15
a. Light damage to surrounding area.								16
b.							17	
Tar	get Area .	Adjacent	Area	Target .	Area	Adjacent	Area	18
Mil	Ci.v	Mil	Civ	Mil	Civ	Mil	Civ	19
0	1.4:0	0	1250	0	7	0	13	20
*Casualties estimated under daylight alert conditions.								21
14. RECOMMENDED WEAPONS AND SORTIES:								22
This target is comprised of 6 areas. One area (including portions of 3 areas) has been delineated for weapons application. Weapons and sorties have been computed for this area. To show the effort required to achieve the damage level prescribed, total weapons/ sorties required over the target are also shown: (1) In order to achieve the damage level of 70%, weapons/							23 24 25 26 27	
sorties require	ed over tar	get:						29
WEAPON	250# Snakeye (5004 SNAKE		BOMB or	7504 BOI			30 31
Areas B, C and F (120' x '	7/1 95')	7/	1	24/3	24/	4		32
(2) Weapons/sorties operationally required to achieve "over target" requirement shown above:							33 34	
	9/1	9/	1	29/3	29/	6		35
15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50% 3								36



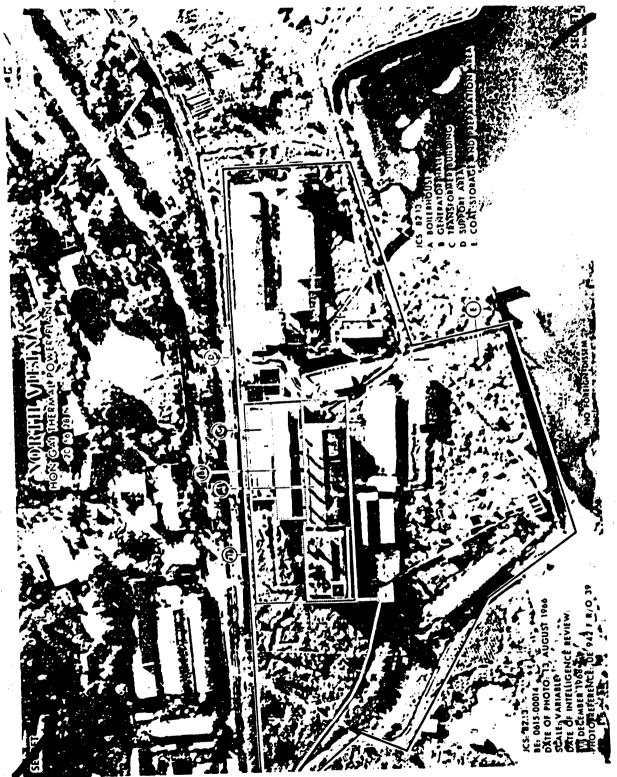
A-D-K-3
(Revised by 17th Note to Holders)

Tab K to Annex D to Appendix A



TAB L TO ANNEX D TO APPENDIX A

TARGET NO. 82.13



SECRET (R vised by 17th N/H)

A-D-L-1

Tab L to Annex D to Appendix A



1.	TARGET NUMBER: 82.13	1
2	<u>RE NUMBER:</u> 615-0014	2
3	ILENTIFICATION: Hon Gai Thermal Power Plant	3
11	DATE OF INFORMATION: 10 September 1968 DATE OF TISD: 11 March 1969 DATE OF PHOTOGRAPHY: 13 August 1966 DATE OF INTELLIGENCE REVIEW: 11 December 1968	4 5 6 7
5.	LOCATION: 20-56-28N 107-06-50E, located 2.2 NM ESE of Hon Gai.	8
6. a total nuilding	DESCRIPTION: The target area consists of 2 boiler houses with of 3 smokestacks, generator hall, switching and transformer, 2 coal preparation buildings, pump house, 4 spray ponds,	9 10 11 12 13
7. 15,000 k supplies Faciliti	SIGNIFICANCE: The power plant has an installed capacity of illowatts; comprising about 11% of the national total. It power locally to the town of Hon Gai, the Hon Cai Portes, (JCS #60). The plant also supplies, over a 35 kilovolt scion line, the Csm Pha Port Facilities (JCS #68), local coal and is an alternate supply source to Hai Phong.	14 15 16 17 18 19
FEF of 1 forming trending to Port to Red 1 M N of the trending to the trending	TARGET ENVIRONMENT: Target, near seallevel, located 2.2 NM ion Gal, in southward projecting broad, forested, hilly peninsula the E corder of Port Courbet; Hon Gai and target site on E-W is most of peninsula. From Hon Gai, just E of entrance Courbet, E to target area, the narrow mangrove lined coast is by forested nills, up to 500' above sea level. About 1.1 is in an area of strip-mining, hills are denuded. E	20 21 22 23 24 25 26 27 29 30
	DEFENSE ENVIRONMENT:	31
•	a. The target is not within the SAM envelope.	32
	c. AAA activity has been identified within 3 NM of the target.	33
	c. HMG and small arms fire is not anticipated.	34
structu	DAMAGE (BJECTIVE: Production loss. Damage criterion is aral damage to power plant buildings with accompanying damage erators, boilers, transformers, switching and control equipment, cillary components. Expected damage is 70%.	35 36 37 38

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-L-2

Tab L to Annex D to Appendix A

(Revised by 17th Note to Holders)

SECATI

SEC YELL							
11. EFFECT ON NVN: the only scurce of power containing port facilitie Priority power requirement operations, will be provi	es used pr nts, inclu idea by po	imarily ding the rtable	for the lose need generate	shipmied for ava	ent of c port ilable i	n the	123456
12. RECUPERABILITY: from 9 to 12 months. The after one year on an eme equipment. Reconstructive require from 18 to 24 months.	rgency bas		.4. 14 -4 -	a aalv	aged and	repaired	7 8 9 10 11
13. COLLATERAL DAMA		•					
							13
	Populat	1 011		Casu	alties*		14
h.	•		Target	Area	Adjacent	; Area	15
Target Area	Adjacent	Civ			M11	Civ	16
M11 Civ	Mil		0	6	0	4	17
o 150	0	380	-	_	ondition	A .	18
•Casualties es				lert c	OUGICION		19
14. RECOMMENDED WE	APONS AND	SORTIE	<u>s</u> :				20
This installat (Including 3 areas) has Weapons and conties has the effort required to sorties required over	ion is consider to been considered.	mprised ineated mputed	of 5 am for west for this	mage. 1	To she	w .	21 22 23 24
(1) In order sorties required over	to achieve	the e	spected	damage			25 26
250	<u>.u</u> .	00# Nakeye	_	OO# OMB	750 BOM		27 28
A B and C	5/1	5/1		14/2	14	/2	29 30
(295, X 1-2)	· · · · · · · · · · · · · · · · · · ·	eration	ally red	quired	to achie	eve	31 32
(2) Weapons/s "over target" requires	ment si.omi	6/1		17/2		7/4	33
15. PROBABILITY	-, -						34
15. PROBABILITY	OL WINTEAT	HU EAF			-		



A-D-L-3

(Revised by 17th Note to Holders)

Tab L to Annex D to Appendix A



1. TARGET NUMBER: 82.14	1
2. <u>BE NUMBER</u> : 616-0153	2
3. IDENTIFICATION: Lao Cai Thermal Power Plant	3
DATE OF INFORMATION: 18 October 1967 DATE OF TIS: 23 April 1968 DATE OF PHOTOGRAPHY: 18 October 1967 DATE OF INTELLIGENCE REVIEW: 2 April 1968	4 5 7
5. LOCATION: 22-29-37N 103-58-42E	8
6. DESCRIPTION: The target consists of a one-stack, concrete boiler/generator house; transformer yard; coal storage; coal processing building with conveyor; six small POL tanks; pump house; administration building; and support buildings. The target is served by a rail spur and a secondary road. Target area is approximately 800 x 650 feet.	9 10 11 12 13 14
7. SIGNIFICANCE: This target is one of the larger operating power plants in North Vietnam. It has an installed capacity of 8,000 kw. comprising about 4 per cent of the pre strike national capacity and almost 20 per cent of the current national capacity. It is of local importance, supplying power for Lao Cai and for apatite mining and processing operations in the Lao Cai area.	15 16 17 18 19 20
8. TARGET ENVIRONMENT: Target, about 300 feet above sea level, is located about 0.5 MM SE of Lao Cai, on the ME side of the Red River. Floor of NW-SE trending Red River valley is about 1 NM wide and is bounded by forested hills. Hills extend to forested mountains located 5 NM ME and 2.5 NM SW of target. Rough plain of valley floor contains a railroad which follows NE side of Red River. China border about 1.0 NM NW of target.	21 22 23 24 25 27
9. DEFENSE ENVIRONMENT:	28 .
a. The target is not within the SAM envelope.	29
b. AAA activity has not been identified within 3 MM of the target.	30 31
c. HMG and small arms fire is not anticipated.	32
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to station buildings with accompanying damage to turbo-generators, boilers, transformers, switching and control equipment, and auxiliary components. Damage level is 70 per cent.	334 35 36 37
11. EFFECT ON NVN: Destruction of the target will affect production of apatite which is mined in the Lao Cai area and is used by fertilizer plants throughout North Vietnam. Other effects will be only of local significance. The power plant is not connected to the existing transmission network.	38 39 40 41 42



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-M-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tab M to Annex D to Appendix A



12. RECUPERABILITY: would prevent operation months. Major damage t or generator units woul twenty-two months for p months for complete res	for a post of the	period of ower play re a peri restorati	f from nine at structua lod of from	res, boi n fiftee	lers, n to	mers	123450
13. COLLATERAL DAM	GE:		an english kariber (s. Salah kariber (s. Salah kariber) Salah kariber (s. Salah kariber)	g of Signature Standard Live (1997) Japan Jacobson (1997)			7
a. Insignifica	ant			hali da sana d Sana da sana d	ř	•	8
b. Population			روم المحمود المحمود من المحمود br>المحمود المحمود	Casuali	iles#		9
Target Area	Adjacer	t Area	Target	Area	Adjacer	at Area	10
MIL CIT	MII	Civ	_ mr	C1¥	Kil	C1V	11
0 180	0	700	0	10	0	7	12
* Casualties	estima	ted under	daylight	alert c	ondition	8.	13
14. RECOMMENDED WE					. •	•	14
This install has been delineated for have been computed for to achieve the damage required over the targ	ation in this a level p	s compris ns applicates. To rescribed	ed of severation. We show the elements to the elements of the	sapons a effort r	equired	rea es	15 16 17 18 19
(1) In order sorties required over	to ach	ieve a de		750#	, weapon	18/	20 21 22
WEAPON	<u>s</u>	NAKEYE		BOMB	•		23
Area A (130 x 150)		5/1		14/2			24
(2) Weapons,	sorties	operati wn above	onally req	uired to	achieve		25 26
		6/1		17/3			27
15. PROBABILITY	OF ACHI	EVING DES	IRED DAMAG	E LEVEL	: 50%		28

SEC DI

A-D-M-3 (REVISED BY 14TH NOTE TO HOLDERS) Tab M to Annex D to Appendix A





of.

TARGET INFORMATION AND STRIKE DATA

	1	٠.
1. TARGET NUMBER: 82.15	}	
2. BE NUMBER: G16-0232	2	,46
3. IDENTIFICATION: Nam Dinh Thermal Power Plant	3	
DATE OF INFORMATION: 10 September 1968 DATE OF TIS: 4 November 1968 DATE OF PHOTOGRAPHY: 5 July 1965 DATE OF INTELLIGENCE REVIEW: 4 October 1968	4567	
5. IOCATION: 20-25-16N 106-10-45E. Located in the south-	8	
mulling towers.	10 11 12	
7. SIGNIFICANCE: The power plant has an installed capacity of 7,500 kilowatts, comprising over 4% of the national total. It supplies power to the city of Nam Dinh and a nearby textile plant.	13 14 15	
8. TARGET ENVIRONMENT: Target is a few feet above sea level at the S end of Nam Dinh. It is near the W bank of the NE flowing Roam Dinh Giang (River) which empties into the SE flowing Red River 1.0 to the NE. The area is a flat plain and, with the exception of Nam Dinh town, is intensively cultivated to wetland rice. There name numerous villages. The Gulf of Tonkin is about 18 NM to the SE. Remerous roads radiate from Nam Dinh. Rail lines extend to the SW and SW.	16 17 18 19 20 21 22 23	
O. DEFENSE ENVIRONMENT:	25	ı
a. The target is within the SAM envelope.		
b. AAA activity has been identified within 3 NM of the target.	26	
c. HMG and small arms fire is ant:cipated.	27	
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to station buildings with accompanying damage to turbo-generators, boilers, transformers, switching and control equipment, and auxiliary components. Damage level is 70%.	3	9
11. EFFECT ON NVN: Destruction of this target would eliminate the only power generating installation located within Nam Dinh. The plant is connected with the Ha Noi Thermal Power Plant (BE number 0616-0016) by 35- and 110-kilovolt transmission lines. However, power could not be supplied from this source without causing shortages in Ha Noi.	3	13 13 13 13 13 13 13 13 13 13 13 13 13 1
1?. RECUPERABILITY: Destruction of the power plant transformers would prevent operation for a period of from 9 to 12 months. Major damage to the power plant structures, boilers or generator units would require a period of from 15 to 22 months for partial units would require a period of from 15 to 22 months for partial restoration and 26 months for complete restoration.	Ī	38 49 40 41 42



NO POREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

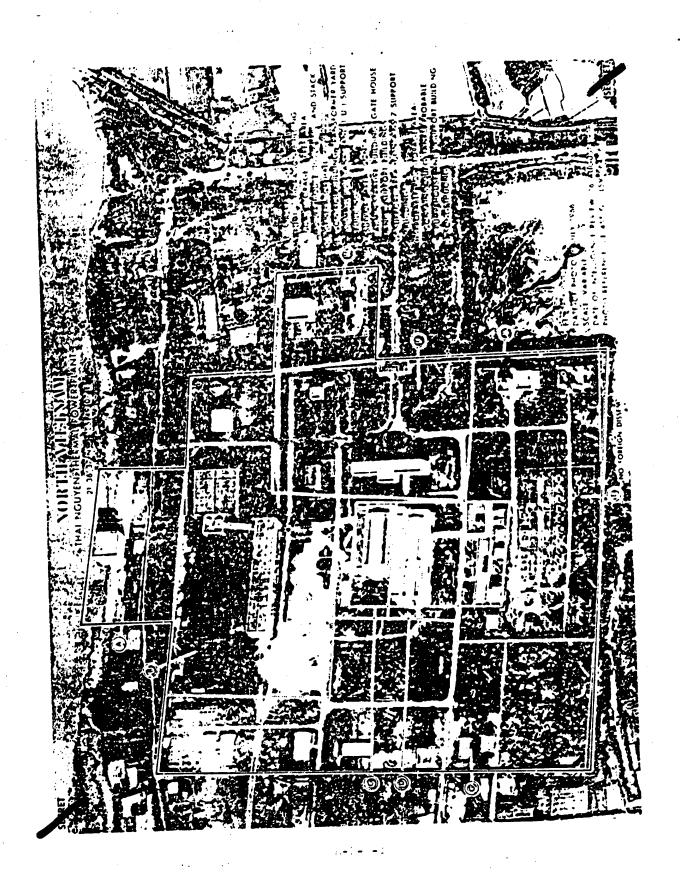
13. COLLATER	AI. DAMAGE:				1
a. Ligh	t damage to su	rrounding a	rea.		2
b.	Population	•	Casual	ties*	3
Target A	rea Adjacen	t Area	Target Area	Adjacent Area	4
' Mil	Civ Mil	CiV	Mil Civ	Mil Civ	5
0	55 0	3100	0 3	0 31	6
"Casualt	_	under dayli	ght alert condi	tions.	7
	NDED WEAPONS AN			<u>.</u>	8
delineated for decomputed for this damage level prestarget are also	eapons applicates area. To sho scribed, total shown:	tion. Weapons the effor		nave been achieve the over the	10 11 12 13
sortles required	over target:	•		•	15
WEAPON	250# SNAKEY <u>E</u>	500# SNAKEYE	500# BOMB	750# BOMB	16 17
Power Plant	5/1	5/1	15/2	15/3	18 19
•	pons/sorties o	perationall wn above:	y required to a	chieve	20 21
	6/1	6/1	18/2	18/3	22
15. PROBABI	LITY OF ACHIEV	ING DESIRED	DAMAGE LEVEL:	50%	23

SEC ET

#82.15

(Revised by 15th Note to Holders)
A-D-N-3

TAB N to Annex D to . Appendix A





1. TARGET NUMBER: 82.16	1.
2. BE NUMBER: 616-0382	2
3. IDENTIFICATION: Thai Nguyen Thermal Power Plant	3
4. DATE OF INFORMATION: 16 April 1968	4
DATE OF TISD: 5 November 1968	5
DATE OF PHOTOGRAPHY: 6 July 1966	6
DATE OF INTELLIGENCE REVIEW: 16 August 1968	7
5. LOCATION: 21-36-37N 105-49-07E, 1.2 NM NE of That Nguyen.	8
6. DESCRIPTION: The target contains a generator hall, boilerhouse	9
with the smakestack transformer yard and control building, large coal	10
proving building and yard, coal unloading and treatment building, admin-	11
mention building. 2 II/G POL storage tanks plus 5 small POL storage tanks,	12
numerous support buildings, and a large pump/filter house on the adjacent	13
Song Thuong (river). Served by a rail spur. The target area is approximately	14
1,250 by 1,100 feet.	15
7. SIGNIFICANCE: The power plant has an installed capacity of 24,000	16
the pre-strike national capacity. The	17
the National Transmission network, supplying	18
A La manua de militare and key industrial facilities in the ha Not/ 1861 - Nous	19
That Name tenn and Steel Plant (1)& UDIO-UGIT/ (1900 197 and	20
representing an alternate source of electricity for the Viet Tri industrial area.	21
The terret is located on the bank of the	22
Song Thuong (river). Surrounding terrain is flat to rolling, rice-cultivated	23
plain.	24
9. DEFENSE ENVIRONMENT:	25
a. The target is within the SAM envelope.	26
b. AAA activity has been identified within 3 NM of the target.	27
c. HMG and small arms fire is anticipated.	28
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is	29
A TANAN AN ALA MATION HUILDINGS WITH ACCOMPANYING CAMBRO	30
generators, builers, transformers, switching and control equipment, and	31
auxiliary equipment. Expected damage level is 70%.	32
TREECT ON NVN. Destruction of the target will climinate one	33
and a second of alactric nower, significantly reducing the total	34
supply available to military and key industrial installations in the Ha Noi/	35
H.i Phong, Thai Nguyen, and Viet Tri areas.	36
PLAL FIIUHKA AMGA MANTON TOTAL	

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

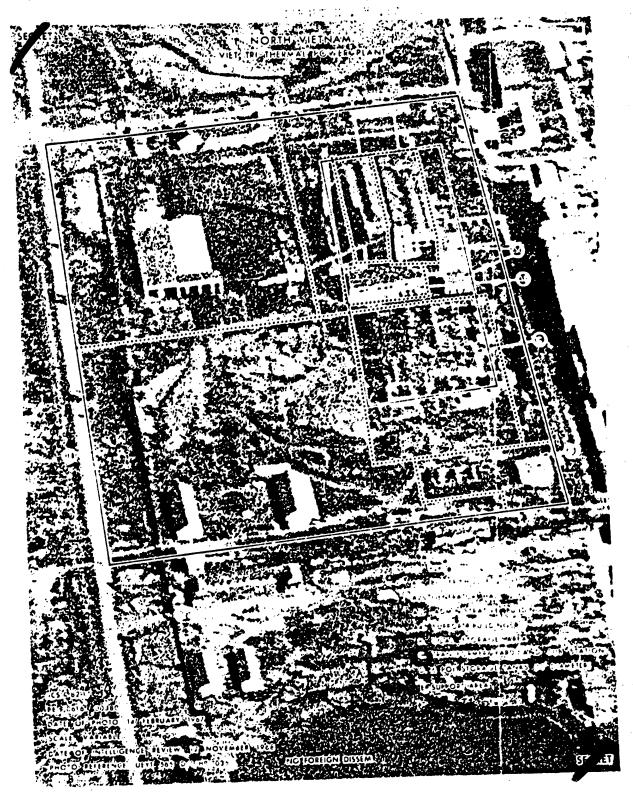


nower plant s from 9 to 12 in equipment. I 26 months.	tructure months (s, boild or part	ers, and g	eneral ation t	nonths. More would by utilizing could be according	requis	ged of To	epaired	2 3 4 5 6
13. CC	LLATE	RAL D	AMAGE:						7
			•	د د رئیس		(0.00)		•	. 8
a.	Insign	liicant				•			
ъ.		Popul	ation			Casual	lties*		9
	Targe	t Area	Adjacent	Area	Target .	Area	Adjace	nt Area	10
	Mil.	Civ	Mil	Civ	Mil	Civ	Mil	Civ	11
	0	150	0	230	• •	9	0	2	12
	* C***	, altina	estimated	under	devlight al	ert co	nditions	•	13
			69111110000	ander					
14. <u>R</u>					SORTIES:				14
_	ECOMM	ENDE	WEAPON	IS ANI	SORTIES:	:	•		14 15
7	ECOMM	ENDED	WEAPON	S ANI	SORTIES:	: irea (c	overing	3 component	15 16
areas) has b	ECOMM The targeteen deli	ENDER	WEAPON	S ANI	SORTIES:	: Veapo	covering ns and so o achieve	3 component ortics have the expec-	15 16 17
areas) has b	ECOMM The targeteen deli	ENDER	WEAPON	S ANI	SORTIES:	: Veapo	covering ns and so o achieve	3 component ortics have the expec-	15 16
areas) has b been comput ted damage,	ECOMM The targeteen deli- ted for the total we	ENDER	mprised of for weapons. To sho	f 8 are ns app w the equire	O SORTIES: cas. One a lication. V effort required over the t	: Weapoired t target	covering ns and so o achieve are also	3 component ortics have a the expec-	15 16 17
areas) has b been comput ted damage,	ECOMM The targeteen delited for the total we	ENDER	mprised of for weapons. To sho	f 8 are ns app w the equire	O SORTIES: cas. One a lication. V effort required over the t	: Weapoired t target	covering ns and so o achieve are also	3 component ortics have the expec-	15 16 17 18
Tareas) has been computed damage,	ECOMM The targeteen delited for the total we	ENDER	mprised of for weapons. To sho sorties reachieve an	f 8 are ns app w the equire	o SORTIES: eas. One a lication. V effort required over the te	: Weapoired t target	covering ns and so o achieve are also 0%, wear	3 component ortics have a the expec-	15 16 17 18
Tareas) has been computed damage,	ECOMM The targeteen delited for the total we	ENDER	mprised of for weapons. To sho	f 8 arens app w the equired a expect	O SORTIES: cas. One a lication. V effort required over the t	trea (d Weapo ired t target e of 7	covering ns and so o achieve are also	3 component ortics have a the expec- shown:	15 16 17 18 19 20
areas) has been computed damage,	ECOMM The targeteen deli- ted for the total week 1) In or er target	et is conneated his area eapons/	mprised of for weapons. To sho sorties reachieve ar	f 8 arens app w the equired a expect	o SORTIES: eas. One a lication. V effort required over the te cted damage	trea (d Weapo ired t target e of 7	covering ns and so o achieve are also 0%, wear	3 component ortics have a the expectorshown:	15 16 17 18 19 20
areas) has been computed damage, (required ov.) WEAPON Areas C, D,	ECOMM The targeteen deliced for the total well. I) In order targeteen deliced for the total well. (1) In order targeteen deliced for the total well.	et is conneated his area eapons/der to t: 220) pons/se	mprised of for weapons. To sho sorties reachieve ar 250# SNAKEYE	f 8 are ns app w the equired a expect	o SORTIES: eas. One a lication. V effort required over the te cted damage 500# SNAKEYE 7/1	e of 7	covering ns and so achieve are also 0%, wear 500# BOMB	3 component orties have the expectorshown: cons/sorties 750# or BOMB	15 16 17 18 19 20

SECULT

82.16

TAR ROLL ALLEX OF TAPERITIES A



in wi Wilverby, the DH) A-1-7-1

Pro distribuit Calabara e e esca

- 1. TARGET NUMBER: 82.17
- 2. BE NUMBER: 616-0380
- 3. IDENTIFICATION: Viet Trf Thermal Power Plant
- 4. DATE OF INFORMATION: 10 September 1968

 DATE OF TISD: 23 January 1969

 DATE OF PHOTOGRAPHY: 14 February 1967

 DATE: OF INTELLIGENCE REVIEW: 12 November 1968
- 5. LOCATION: 21-17-57N 105-25-26E, located 30 NM NW of Ha Not.
- 6. <u>DESCRIPTION</u>: The target area consists of a boiler house with one smokestack, generator hall with 2 generating units, a probable substation, transformer and switching yard, 6 POL storage tanks (10 diameter), a coal delivery building, a coal treatment house, numerous support buildings, a coal storage area and what appears to be pipes and construction materials.
- 7. SIGNIFICANCE: The power plant has an installed capacity of 16,000 kilowatts, comprising about 9% of the national capacity. It is scheduled to be expanded to 24,000 kilowatts. The plant supplies power to the Viet Tri industrial area, which includes the Viet Tri Chemical Plant (BE Number 616-0.98) (JCS #75) and is connected to other main power plants in the country by a 110-kilovolt transmission line, through a major substation (Ha Not Transformer Station Dong Ann. BE Number 616-0545) located about ten NM N of Ha Not.
- 8. TARGET ENVIRONMENT: The target is located in the western outskirts of Vict Tri and is situated on low flat ground at an elevation of about 50 feet. The power plant is a part of an industrial complex, consisting of a number of chemical processing plants. There are to terrain obstructions close to the target area.

9. DEFENSE ENVIRONMENT:

- a. The target is within the SAM envelope.
- b. AAA activity has been identified within 5 NM of the target.
- c. HMG and small arms fire is andelpated.
- 10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to power plant buildings with accompanying damage to generators, boilers, transformers, switching and control equipment, and auxiliary components. Damage level is 70%.
- 11. EFFECT ON NVN: Desiruation of the target will disrupt electric power supplies to the Viet Tri Industrial Complex. Although alternate electric power could be obtained by the 110-kv network from other power plants, this would adversely affect other important power consumers including Ha Noi.



ET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-P-2

(Revised by loth Note to Holders)

Tab P to Annex D to Appendix A 2

1

6

4

. . 1

١.

111

16

Z:

2:

24

25

. 7

29

30

01 32

3.3

34

Зò

36 37

12. RECUPERABILITY: Restoration of the transformer station would require from 9 to 12 months. The power plant can resume partial operation after one year on an emergency basis by utilizing salvaged and repaired equipment. Reconstruction of the plant to full present capacity could be accomplished in about 18 months using equipment probably currently on order.

13. COLLATERAL DAMAGE:

A. 1	insign	ificant
------	--------	---------

b.		Population	•		Casual	ties*		8
Targe	t Area	Adjacen	t Area	Target	Area	Adjacen	t Area	9
Mil	Civ	Mil	Clv	, Mil	Civ	Mil	Civ	10
. 0	175	0	300	• 0	8	0	3	11

*Casualties estimated under daylight alert conditions.

14. RECOMMENDED WEAPONS AND SORTIES:

11/1

This target is comprised of 5 areas. One area (which includes portions of 2 target areas) has been delineated for weapons application. Weapons and sorties have been computed for this area. To show the effort required to achieve the expected damage, total weapons/sorties required over the target are also shown:

(1) In order to achieve a damage level of 70%, weapons/sorties required over target:

WEAPON	250# Snakeye	or	500# Snakey e	or	500# BOMB	or	750# BOMB	21 22
	•							2 3
Areas A & C	44.14		11/1		20/2		20/3	24

11/1

(675' x 220') (2) Weapons/sorties operationally required to achieve "over target" requirement shown above:

24/4 14/2 24/3 14/1

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.

A-D-P-3

(Revised by 16th Note to Holders) Company of the contract of the

Tab P to Annex D to Appendix A 12

13

15

1 .

17 18

13 20

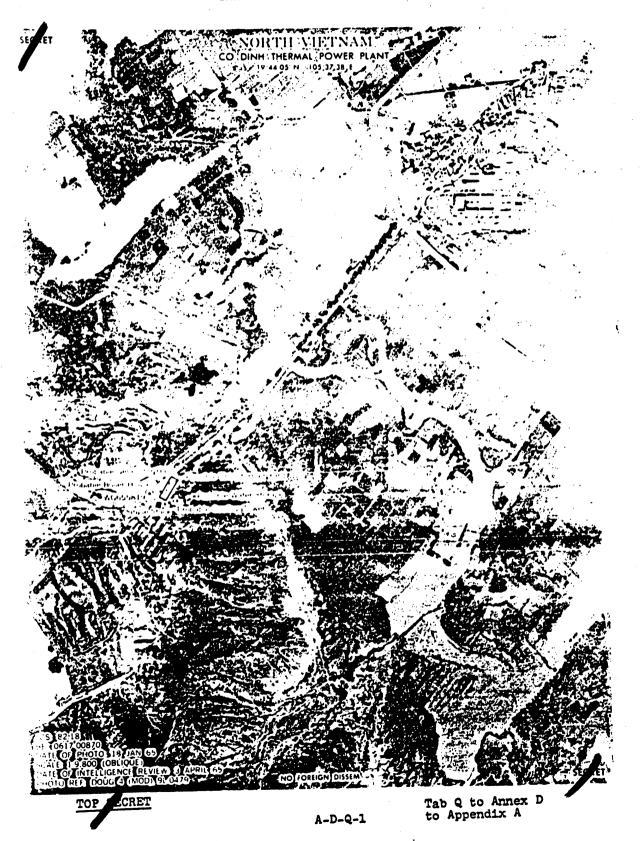
15

26

27

TAB Q TO ANNEX D TO APPENDIX A

TARGET NO. 82.18



1927 RV

2. BE NUMBER: 617-0870 3. DENTIFICATION: Co Dinh Thermal Power Flant 4. DATE OF INFORMATION: 3 April 1965 5. LOCATION: 19-44-05N/105-37-38E, UTM WG 655819 6. DESCRIPTION: The target area is composed of a generator hall, boiler house with one smokestack, transformer yard, and cooling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kllowatts, comprising about 0.9 percent of the national capacity. It supplies power for the local chromite national capacity. It is connected with the Thanh Hoa power liming operations. It is connected with the Thanh Hoa power liming operations. It is connected with the Thanh Hoa. Surplant (BE Number 0617-0533) by a 35-kilovolt transmission line. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Survey for the wooded hills in the southwest. These hills line except for the wooded hills in the southwest. These hills line except for the wooded hills in the southwest. These hills line to about 1,700 feet above sea level and form physical cobstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located in the Immediate vicinity of the target. Nearest AAA is in 23 in the Immediate vicinity of the target. Nearest AAA is in 23 in the Thanh Hoa area, 8, 5, NM east-northeast and includes 7 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and i	1. TARGET NUMBER: 82.18	• .
4. DATE OF INFORMATION: 3 April 1965 DATE OF TIS: 4 April 1965 5. LOCATION: 19-44-05N/105-37-38E, UTM W0 655819 6. DESCRIPTION: The target area is composed of a generator hall, boiler house with one smokestack, transformer yard, and coling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kilowatts, comprising about 0.9 percent of the lational capacity. It is connected with the Thanh Hoa power mining operations. It is connected with the Thanh Hoa power mining operations. It is connected with the Thanh Hoa power plant (BE Number 0617-0533) by a 35-kilowolt transmission 14 above sea level, about 11 NM southwest of Thanh Hoa. Surveyer for the wooded hills in the southwest. These hills recept for the wooded hills in the southwest. These hills rise to about 1,700 feet above sea level and form physical 20 obstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 24 the Thanh Hoa area, 8.5 NM east-northeast and includes 7 the Thanh Hoa and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa, and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa and the area is within the GCI capability of at Thanh Hoa the Thanh Hoa area as has the been sometimes reported in the Th		2
4. DATE OF INFORMATION: 3 April 1965 5. LOCATION: 19-44-05N/105-37-38E, UTM W0 655819 6. DESCRIPTION: The target area is composed of a generator hall, boiler house with one smokestack, transformer yard, and cooling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kilowatts, comprising about 0.9 percent of the national capacity. It supplies power for the local chromite liaming operations. It is connected with the Thanh Hoa power in mining operations. It is connected with the Thanh Hoa power liaming operations. It is connected with the Thanh Hoa power liaming operations. It is connected with the Thanh Hoa power liaming operations. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Survounding area is flat cultivated plain in all directions lexcept for the wooded hills in the southwest. These hills except for the wooded hills in the southwest. These hills 19 construction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located 22 in the immediate vicinity of the target. Nearest AAA is in 24 the Thanh Hoa area, 8.5 NM east-northeast and includes 7 cative 4-position site. Nearest EW radar is also located inactive 4-position site. Nearest EW radar is also located inactive 4-position site. Nearest EW radar is also located at Thanh Hoa, and the area is within the GCI capability of 27 at Thanh Hoa, and the area is within the GCI capability of 27 at Thanh Hoa, and the area is within the GCI capability of 27 at Thanh Hoa, and the area is within the GCI capability of 28 at Thanh Hoa area, 8.5 NM east-northeast and includes 7 capability of 28 at Thanh Hoa area, 8.5 NM east-northeast and includes 7 capability of 29 capability of	2. BE NUMBER: OIL-SOIL	3
4. DATE OF INFORMATION: 3 APRIL 1965 5. LOCATION: 19-44-05N/105-37-38E, UTM W0 655819 6. DESCRIPTION: The target area is composed of a generator fall, boller house with one smokestack, transformer yard, and cooling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kilowatts, comprising about 0.9 percent of the latinational capacity. It supplies power for the local chromite lamining operations. It is connected with the Thanh Hoa power line. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Surveyer for the wooded hills in the southwest. These hills rise to about 1,700 feet above sea level and form physical cobstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located in the immediate vicinity of the target. Nearest AAA is in the immediate vicinity of the target. Nearest AAA is in the immediate vicinity of the target is also located in the Thanh Hoa area, 8.5 NM east-northcast and includes 7 cattive 3-position site. Nearest EW redar is also located in the Thanh Hoa area, 8.5 NM east-northcast and includes 7 cattive 4-position site. Nearest EW redar is also located at the Thanh Hoa area, 8.5 NM east-northcast and includes 7 cattive 4-position site. Nearest EW redar is also located at the Thanh Hoa area, 8.5 NM east-northcast and includes 7 cattive 4-position site. Nearest EW redar is also located at the Thanh Hoa area as has the been sometimes reported in the Thanh Hoa. Decreted in the target area and and the area is within the GCI capability of 20 cattive 4-position site. Nearest EW redar is also located at 3 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions) and one 25 cative sites (24 occupied 14.5mm-37mm positions		4
6. DESCRIPTION: The target area is composed of a generator 7 hall, boller house with one smokestack, transformer yard, and 8 cooling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kilowatts, comprising about 0.9 percent of the 1 national capacity. It supplies power for the local chromite mining operations. It is connected with the Thanh Hoa power mining operations. It is connected with the Thanh Hoa power 14 plant (BE Number 0617-0533) by a 35-kilovolt transmission 15 line. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Sursover sea level, about 11 NM southwest of Thanh Hoa. Sursover sea level, about 11 NM southwest of Thanh Hoa. 17 respect to the wooded hills in the southwest. These hills 19 except for the wooded hills in the southwest. These hills 19 obstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located 20 in the immediate vicinity of the target. Nearest AAA is in 23 the Thanh Hoa area, 8.5 NM east-northcast and includes 7 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 26 anactive 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position site. Nearest EM radar is also located 10 active 4-position and the ar	4. DATE OF INFORMATION: 3 APRIL 1965 DATE OF TIS: 4 APRIL 1965	5
6. DESCRIPTION: The target area is composed of a generator hall, boller house with one smokestack, transformer yard, and cooling tower. 7. SIGNIFICANCE: This power plant has an installed capacity of 1,500 kilowatts, comprising about 0.9 percent of the literational capacity. It supplies power for the local chromite plant (BE Number 0617-0533) by a 35-kilovolt transmission line. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Survounding area is flat cultivated plain in all directions rounding area is flat cultivated plain in all directions except for the wooded hills in the southwest. These hills except for the wooded hills in the southwest. These hills 19 rise to about 1,700 feet above sea level and form physical 20 robstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located 21 in the immediate vicinity of the target. Nearest AAA is in 23 the Thanh Hoa area, 8.5 NM east-northcast and includes 7 the Thanh Hoa area, 8.5 NM east-northcast and includes 7 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (24 occupied 14.5mm-37mm positions) and one 25 active sites (25 occupied 14.5mm-37mm p	5. <u>LOCATION</u> : 19-44-05N/105-37-38E, UTM WG 655819	-
national capacity. It supplies power for the local chromite 12 mining operations. It is connected with the Thanh Hoa power 13 mining operations. It is connected with the Thanh Hoa power 14 line. 8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Survounding area is flat cultivated plain in all directions 18 rounding area is flat cultivated plain in all directions 18 except for the wooded hills in the southwest. These hills 19 except for the wooded hills in the southwest. These hills 20 obstruction. 9. DEFENSE ENVIRONMENT: No known AAA defenses are located 21 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target. Nearest AAA is in 23 in the immediate vicinity of the target is also located in active 4-position site. Nearest EW radar is also located in active 4-position of the Thanh Hoa CCI capability of 27 in Thanh Hoa and the area is within the GCI capability of 27 in Thanh Hoa. 10. DAMAGE OBJECTIVE: Production loss. Damage criterion 32 is structural damage to power plant buildings with accompanying 33 is structural damage to power plant buildings with accompanying 33 is structural damage to power plant buildings with accompanying 33 is structural damage to power supply. Alternate power 34 is structural damage to power supply. Alternate power 34 is structural damage to generators, boilers, transformers, switching and 35 is structural damage to generators of the power plant transformers would prevent operation for	6. DESCRIPTION: The target area is composed of a generator hall, boiler house with one smokestack, transformer yard, and cooling tower.	9
8. TARGET ENVIRONMENT: The target is located about 20 feet 16 above sea level, about 11 NM southwest of Thanh Hoa. Surpove sea level, about 11 NM southwest of Thanh Hoa. Surpove sea level, about 11 NM southwest of Thanh Hoa. Surpove sea is flat cultivated plain in all directions 18 except for the wooded hills in the southwest. These hills 19 except for the wooded hills in the southwest. These hills 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 1,700 feet above sea level and form physical 20 rise to about 20 rise to about 20 rise to about 20 rise to about 21 rise to about 22 rise to about 22 rise to about 22 rise to about 22 rise to about 24 rise to about 24 rise to about 24 rise to about 27 rise to about 27 rise to about 28 rise to about 29 rise to about 20 rise to about 21 rise to about 20 rise to about 20 rise to about 20 rise to about 20 rise to abo	city of 1,500 kilowatts, comprising of the local chromite national capacity. It supplies power for the local chromite national capacity. It is connected with the Thanh Hoa power mining operations. It is connected with the Thanh Hoa power plant (BE Number 0617-0533) by a 35-kilovolt transmission line.	11 12 13 14 15
9. DEFENSE ENVIRONMENT: No known AAA defenses are located 22 in the immediate vicinity of the target. Nearest AAA is in 23 the Thanh Hoa area, 8.5 NM east-northeast and includes 7 active sites (24 occupied 14.5mm-37mm positions) and one 25 inactive 4-position site. Nearest EW radar is also located 26 inactive 4-position site. Nearest EW radar is also located 26 at Thanh Hoa, and the area is within the GCI capability of 27 at Thanh Hoa, and the area is within the GCI capability of 27 at Thanh Hoa area as has the 29 been sometimes reported in the Thanh Hoa area as has the 29 been sometimes reported in the Thanh Hoa area as has the 29 thanh Inf Regiment of the 304th Division. Security forces 30 and armed militia may be encountered in the target area. 31 and armed militia may be encountered in the target area. 31 is structural damage to power plant buildings with accompanying 31 damage to generators, boilers, transformers, switching and 31 damage to generators, boilers, transformers, switching and 32 control equipment and auxiliary equipment. Damage level is 35 control equipment and auxiliary equipment. Damage level is 36 control equipment and auxiliary equipment. Damage level is 36 control equipment and auxiliary equipment. Damage level is 36 control equipment and auxiliary equipment. Damage level is 36 control equipment and auxiliary equipment areas will deprive 37 could be obtained from the Thanh Hoa Fower Plant (BE Number could be obtained from the Thanh Hoa Fower Plant (BE Number could be obtained from the Thanh Hoa Fower plant transformers would prevent operation for a period from five to 12 chromite mines of damage to power plant structures, boilers, 4 formers would prevent operation for a period from five to 12 chromite months. Major damage to power plant structures, boilers, 4 formers would prevent operation for a period from five to 12 chromite mines of their power plant structures, boilers, 4 formers would prevent operation for a period from five to 12 chromite mines of their power plant structures, boil	8. TARGET ENVIRONMENT: The target is located about 20 feet above sea level, about 11 NM southwest of Thanh Hoa. Surrounding area is flat cultivated plain in all directions except for the wooded hills in the southwest. These hills rise to about 1,700 feet above sea level and form physical obstruction.	17 18 19 20 21
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is structural damage to power plant buildings with accompanying and damage to generators, boilers, transformers, switching and control equipment and auxiliary equipment. Damage level is 30 years of the control equipment and auxiliary equipment. 11. EFFECT ON DRV: Destruction of this target will deprive could be obtained from the Thanh Hoa Power Plant (BE Number could be obtained from the Thanh Hoa Power Plant (BE Number of 17-0533) but this would adversely affect power supply of thanh Hoa. 12. RECUPERABILITY: Destruction of the power plant transformers would prevent operation for a period from five to nine months. Najor damage to power plant structures, boilers, in or generators would require a period of about 12 months for complete	9. DEFENSE ENVIRONMENT: No known AAA defenses are located in the immediate vicinity of the target. Nearest AAA is in the Thanh Hoa area, 8.5 NM east-northcast and includes 7 active sites (24 occupied 14.5mm-37mm positions) and one inactive 4-position site. Nearest EW radar is also located at Thanh Hoa, and the area is within the GCI capability of Hanoi EW/HF radar. The 269th Independent Inf Regiment has been sometimes reported in the Thanh Hoa area as has the 57th Inf Regiment of the 304th Division. Security forces and armed militia may be encountered in the target area.	24 25 26 27 28 29 30 31
11. EFFECT ON DRV: Destruction of this target will deprive 3 local chromite mines of their power supply. Alternate power 30 could be obtained from the Thanh Hoa Power Plant (BE Number 0617-0533) but this would adversely affect power supply of 30 Thanh Hoa. 12. RECUPERABILITY: Destruction of the power plant transformers would prevent operation for a period from five to nine months. Najor damage to power plant structures, boilers, in nine months. Najor damage to power plant structures, boilers, in or generators would require a period of about 12 months for or generators and about 15 months for complete	10. <u>DAMAGE OBJECTIVE</u> : Production loss. Damage criterion is structural damage to power plant buildings with accompany damage to generators, boilers, transformers, switching and control equipment and auxiliary equipment. Damage level is 20 percept.	
12. RECUPERABILITY: Destruction of the power plant trains formers would prevent operation for a period from five to nine months. Major damage to power plant structures, boilers, nine months. Wajor damage to power plant structures, boilers, or generators would require a period of about 12 months for or generators and about 15 months for complete	11. EFFECT ON DRV: Destruction of this target will depriv local chromite mines of their power supply. Alternate power could be obtained from the Thanh Hoa Power Plant (BE Number 0617-0533) but this would adversely affect power supply of Thanh Hoa.	41
	12. RECUPERABILITY: Destruction of the power plant trainformers would prevent operation for a period from five to nine months. Najor damage to power plant structures, boiler or generators would require a period of about 12 months for partial restoration and about 15 months for complete	43

TOP SECRET

A-D-Q-2

. Tab Q to Annex D to Appendix A

TOP SECRET

13. COLLATERAL DAMAGE:	Insignificant.		1
14. RECOMMENDED WEAPONS	AND SORTIES:		5
a. In order to achi 70%, weapons/sorties r	eve the desired damage level equired over target:	el of	3
Weapon SNAKEYE or	250# 500# 750 BOMB or BOMB or BOM	3	
7/1	18/2 18/2 18/	3	5
• •	operationally required to	achieve	6 7
11/1	22/3 22/3 22/	′ 4	8
•	LEVING DESIRED DAMAGE LEVEL	: 50%	9

TOP CRET

A-D-Q-3 ...

Tab Q to Annex D to Appendix A

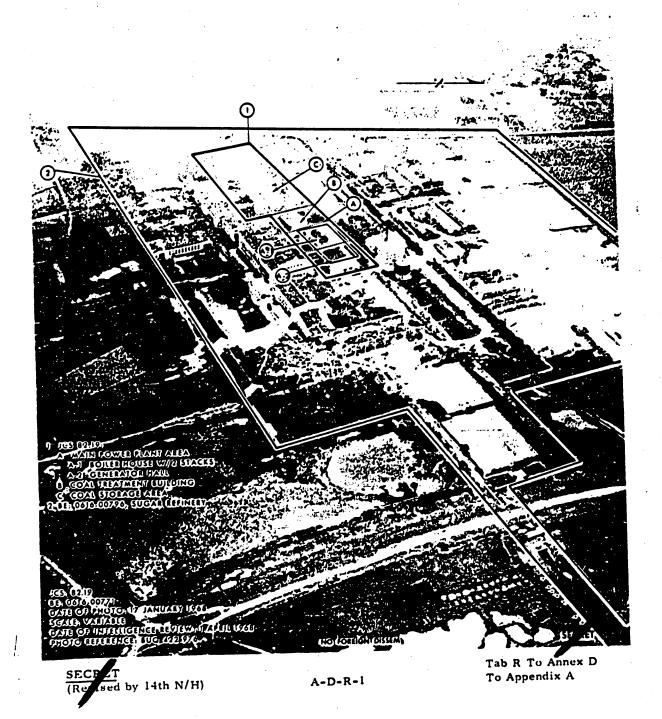


TAB R TO ANNEX D TO APPENDIX A

TARGET NO. 82.19

NORTH VIETNAM

PHU LY THERMAL POWER PLANT SUGAR REFINERY VAN DIEM 20 47 00 N 105 55 15 E





1.	TARGET NUMBER: 82.19	1
2.	BE NUMBER: 616-0771	2
3.	IDENTIFICATION: Phu Ly Thermal Power Plant Sugar Refinery Van D	Less
4.	DATE OF TIS: 23 APTI 1900 DATE OF PHOTOGRAPHY: 17 January 1968 DATE OF INTELLIGENCE REVIEW: 1 APTI 1968	4 5 7
5.	LOCATION: 20-47-00N 105-55-15E	8
6. Sugar F generat	DESCRIPTION: The target is located within the Van Diem Refinery and contains a boiler house with two smokestacks, cor hall, coal storage area, coal treatment building, and ting buildings. The power plant is served by rail and y road. The target area is approximately 1,500 feet by 680	9 10 11 12 13 14
of 1,20	SIGNIFICANCE: The power plant has an installed capacity of kilowatts, comprising slightly less than one percent of strike national capacity and 3 percent of the current national ty. It supplies power to a local sugar refinery.	15 16 17 18
8. plain one an	TARGET ENVIRONMENT: The target is located on a flat about one-half NM southwest of the Red River and about d one-half NM east of a main north-south rail line. vicinity of the target are small built-up areas, the t being about one-quarter NM to the south.	19 20 21 22 23
	DEFENSE ENVIRONMENT:	24
	a. The target is within the SAM envelope.	25
the ta	b. AAA activity has been identified within 3 MM of arget.	26 27
	c. HMG and small arms fire is anticipated	28
struct	DAMAGE OBJECTIVE: Production loss. Damage criterion is tural damage to power plant buildings with accompanying to generators, boilers, transformers, switching and ol equipment, and auxiliary components. Damage level is 70 int.	29 30 31 32 33
	1. EFFECT ON NVN: Destruction of this target would eliminate nly power supply available to the sugar refinery.	34 35
boile month	2. RECUPERABILITY: Major damage to the power plant structures, rs, or generator units would require a period of about 12 s for partial restoration and about 15 months for complete ration.	36 37 38 39



NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

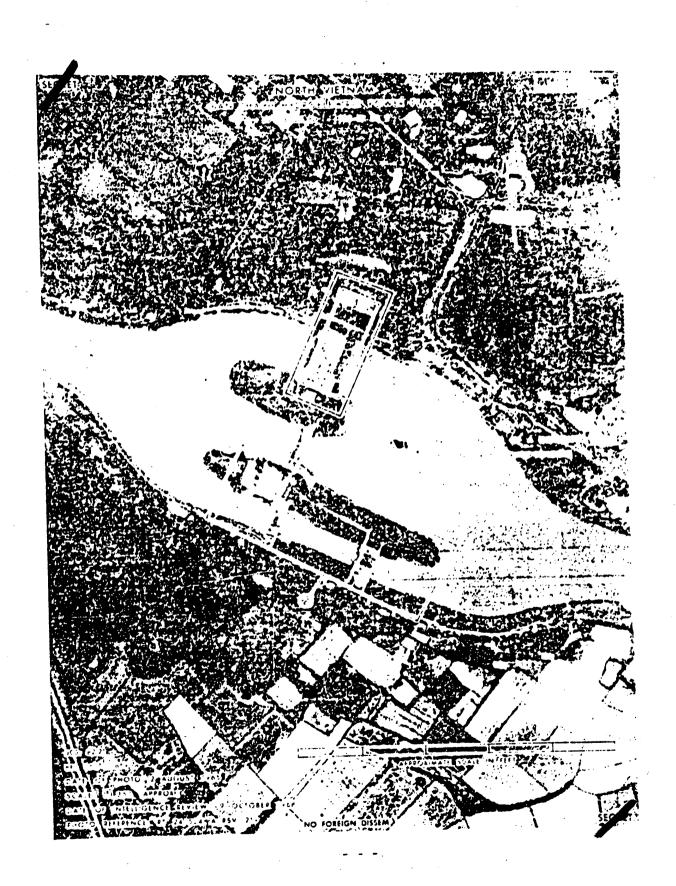
(REVISED BY 14TH NOTE TO HOLDERS)

Tab R to Annex D to Appendix A

13. COLLATERAL DAMAG	<u>}E</u> :				1
a. Insignificat		Ç			2
b. Population		Casual	ties*		3
	Adjacent Area	Target Area	Adjacent	Area	4
	Mil Civ			C1V	5
	0 400			4.	. 6
# 00 molt400	estimated under	devlight alert co	onditions.		. 7
14. RECOMMENDED WE					8
This target is delineated for weapons computed for this area the damage level prescithe target are also should be also should	ribed, total weapo		achieve	8611	9 10 11 12 13
(1) In order sorties required over	to achieve a dame	se level of 70%;	weapons/		14 15
WEAPON	500# 8NAKEYE	750# BOMB			16 17
Area A (65 x 230)	6/1	21/3			18
(2) Weapons/ "over target" requires	sorties operationment shown above:	ally required to	achieve		19 20
	7/1	25/4			21
15 PROBABILITY O				•••	22

SECTET

A-D-R-3 (REVISED BY 14TH NOTE TO HOLDERS) Tab R to Annex D to Appendix A



. The second of the second of \hat{x}_{ij} and \hat{x}_{ij} and \hat{x}_{ij} and \hat{x}_{ij}	
I. TARGET NUMBER: 82.21	1
2. B. E. NUMBER: 617-0869	2
3. IDENTIFICATION: Ban Thach Hydroelectric Power Plant	3
4. DATE OF INFORMATION: 10 September 1968	4.
DATE OF TISD: 12 November 1968	5
DATE OF PHOTOGRAPHY: 2 August 1965	6
DATE OF INTELLIGENCE REVIEW: 9 October 1968	7
5. LOCATION: 19-54-25N 105-31-50E, located 15 NM NW of Thanh Hoa.	8 9
6. DESCRIPTION: The target is a reinforced concrete power plant	10
consisting of two generating units at the N end of the dam and transformer	.11
and support buildings on the N bank of the canal. A navigational lock (JCS 71.19) is on the S end of the dam.	12 13
7. SIGNIFICANCE: This is a locally important power plant and has	14
an installed capacity of 1,000 kilowatts. It supplies power to pumping	15
stations serving irrigation. It also provides the Thann Hoa urban area	16
with additional power by a low voltage transmission line.	17
8. TARGET ENVIRONMENT: The target is located along the Song	18
Clare Caral on the flat cultivated plain about 30 feet above sea level, and	19
about 16NM WNW of Thanh Hoa. There are no physical obstructions in	20 21
the target area.	
9. DAMAGE ENVIRONMENT:	22
a. The target is within the SAM envelope.	23
b. AAA activity has been identified within 3NM of the target.	24
c. HMG and small arms fire is anticipated.	25
10. DAMAGE OBJECTIVE: Production loss. Damage criterion is	26
to the status buildings with accompanying damage to	27
unperators, boilers, transformers, switching and control equipment,	28
and auxiliary equipment. Damage level is 70 percent.	29
11. EFFECT ON NVN: Destruction of this target will have an effect	30
at a transfer of the state of t	31
Alternate nower Could be obtained from the friend to	32
Power Plant (BE 617-0533) but this would adversely affect power supply	33 34
of Thanh Hoa.	34
12. RECUPERABILITY: Reconstruction of this power plant would	35
manufacture of a dam, in addition to the powernouse and generating	36
equipment, and would require from 24 to 30 months to accomprise	37
The state of the s	

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC REGRADING; DOD DIR 5200. 10 DOES NOT APPLY

(Revised by 15th Note to Holders)

TAB T to Annex D to Appendix A

1	3. COLI	ATERA	L DAM	NGE:					1
	a, Li	ight dam	age to s	urrounding	area.		•		2
	ъ.	Pop	ulation			. с	asualties	•	3
	Targe	t Area	Adjace	nt Area	Targ	et Area	Adjace	nt Area	4
	Mil	Civ	Mil	Civ	Mil	Civ	Mil	Civ	5
	0	55	0	300	. 0.	3	• 0	3	6 -
,	*Casualt	ies estin	nated un	der daylig	ht alert co	nditions	• .		7
•	14. REC	OMMEN	DED WI	EAPONS A	ND SORTI	ES:			8
show	ons appl the effo ons/sor	ication. rt requi ties requ In order	Weapn red to a rired ov to achie	of one area of sort chieve the er target a eve a dama	damage le	vel pres	cribed, t	total	10 11 12 13 14
•				00#	500#		750#		15
Wea	pons: Si	250# Nakeye	-	AKEYE or		or	BOMB	•	16
	er Plt 0' x 610'	39/3	· 3	39/4	48/5		48/8		17
targ	(2) set" requ	Weapons irement	/Sortie s shown	s operation above:	ally requi	ired to a	chieve "o	ver	18 19
	•	47/4	•	47/5	58/6		58/10		. 20
	15. PR	OBABIL	TY OF	ACHIEVIN	G DESIRE	D DAM	GE LEV	EL: 50%	21

SECRET

#82.21

(Revised by 15th Note to Holders)
A-D-T-3

TAB T to Annex D to Appendix A



TAB U TO ANNEX D TO APPENDIX A

TARGET NO. 82.22



1.	TARGET NUMBER: 82.22	1.
2.	BE NUMBER: 616-0764	2
3.	IDENTIFICATION: Ta Sa Hydroelectric Power Plant	3
4.	DATE OF INFORMATION: 21 August 1967 DATE OF TIS: 2 February 1968 DATE OF PHOTOGRAPHY: 21 August 1967 DATE OF INTELLIGENCE REVIEW: 15 November 1967	4 5 6 7
5.	LOCATION: 22-39-44N 106-03-00E	8
house an		9 10 11
1 000	SIGNIFICANCE: The power plant has an installed capacity kilowatts, comprising 0.5% of national capacity, and power for local tin mining operations.	12 13 14
on W sid small, i except peaks go	TARGET ENVIRONMENT: Target, 350 ft. above sea level, is the of N-flowing Song De Nguyen Binh, at W edge of very rice-cultivated basin enclosed by hills. Hills wooded, to S and SW or target, where grass and brush predominate; tenerally 440 ft. higher than basin, slopes are 30-40%. It is sparsely populated. The target site is located 17 the China Border.	15 16 17 18 19 20 21
9.	DEPENSE ENVIRONMENT:	22
	a. The target is not within the SAM envelope.	23
	b. AAA activity has not been identified within 3 NM or the target.	24 25
	c. Light machine gun and small arms fire is anticipated	. 26
structu	DAMAGE OBJECTIVE: Production loss. Damage criterion is trail damage to powerhouse with accompanying damage to cors; transformers, switching and control equipment, and try components. Damage level is 70%.	27 28 29 30
ate abo	L. EFFECT ON NVN: Destruction of this target would elimin- out one-fourth of the electric power supplied for re- tin mining, but would have only a minor effect except	31 32 33 33 33 33 33



A-D-U-2

Tab U to Annex D to Appendix A

(Revised by 12th Note to Holders)



midra rel	RECUPERAL building of t and would	of the r	overhou	se and	installat	tion or	would a	re- ting	1 2 3
	COLLATER				•		•		4
	A. None	÷							5
	b.	Popu	lation		Ca	sualtic	3 4		6
	Target			at Area	Target	Area	Adjace	nt Area	7
	Mil	Civ			MIL	Civ		Civ	ខ
•	0	20	0	0	0	1	0	0	9
	_	lties e	stimate	d under	daylight	alert	conditi	ons.	10
14.	RECOMMEN								11
has been		nstalla ed for ed for t	tion is weapons his are	compri applic a. To scribed	sed of twation. We show the , total w	effort	requir	ed	12 13 14 15 16
_		n order	to ach	ieve a	damage 1	evel of	70%,		17 18
WEAPON		250#	2	250#	500# BOMB	750 <i>i</i> or B)M		•	
Area A	(75x200)	5/1		19/2	19/2	19/3	3		19
		eanons/	sorties nt show	operat:	lonally r	equire	1 to ach	1070	20
	-	6/1		23/2	23/3	23/	4		21
15	PROBABI	LITY OF	ACHIEV	ing des	IRED DAMA	GE LEV	亞: 50%	\$	22



A-D-U-3

Tab U to Annex D to Appendix A

(Revised by 12th Note to Holders)



TAB V TO ANNEX D TO APPENDIX A

TARGET NO. 82.23





1. <u>T/</u>	ARGET NUMBER: 82.23	1
2. <u>B</u>	E NUMBER: 616-0765	2
3. <u>I</u>	DENTIFICATION: Ta Sa Hydroelectric Power Plant Na Ngan	3
່ <u>ກ</u>	ATE OF INTERESTIGENCE REVIEW.	4 5 7
5. <u>D</u>	OCATION: 22-41-33N 100-03-17B	8
noverhouse	ESCRIPTION: The target area consists of a separated and dam connected by a canal. Water is conveyed to louse by a penstock.	910
7. S	GIGNIFICANCE: The power plant has an installed capacity Gilowatts, comprising 1% of national capacity.	13
is on west rice-culti basin is . Nguyen Bir	t side of the N-flowing Song De Nguyen Binh, in a lyated basin enclosed by steep, wooded hills. The 2 to .4 NM wide and extends 1.6 NM along Song De h; surrounding hills rise 160 to 560 ft. above basin.	14 15 16 17 18 19 20
•		21
	a. The target is not within the SAM envelope.	22
1	b. AAA activity has not been identified within 3 NM of the target.	23 24
(c. Light machine gun and small arms fire is anticipated.	?!5
structura	DAMAGE OBJECTIVE: Production loss. Damage criterion is a damage to powerhouse with accompanying damage to s, transformers, switching and control equipment, and components. Damage level is 70%.	26 27 28 29
about one mining, b	EFFECT ON NVN: Destruction of this target would eliminate a-half of the electric power supplied for regional tin out would have only a limited effect except in combinith destruction of Ta Sa Hydroelectric Power Plant (JCS These two plants together supply about three-fourths ower utilized in the tin mining operations.	300000000000000000000000000000000000000



A-D-V-2

Tab V to Annex D to Appendix A

(Revised by 12th Note to Holders)



	STAINE C	of the s	Reconstr powerhouse e from 12	and 1	installat	targe ion of	t would generat	re-	1 2 3
	COLLATER								4
-0;	a. None								5
	b.	Popula	tion		Casus	lties"	•		6
	Target	Area	Adjacent	Area	Target	Area	Adjace	nt Area	7
	M11	Civ	Mil	Civ	Mil	Civ	Mil	Civ	8
	0	20	0	0	0	1	0	0	9
	#Casua	lties e	stimated	under	daylight	alert	conditi	ons.	10
14.			PONS AND						11
sorties	delineat	ed for comput	ion is con weapons a ted for the damage le he target	ipplica is are evel pr	ca. To specified	how th	e effort	;	12 13 14 15 16
		order	to achieve				o≶, weaj	ons	17 18
WEAPON	·	250#	250 E or Bo	0# MB or	500# BOMB (750 E BON	# DB		19 20
Area A	(75 x 200)	5/1	19	/2	19/2	19/	' 3		21
"over t	(2) We arget" re	apons/s quireme	orties op ents shown	eratio above	nally re	quired	to achi	646	22 23
		6/1	23	/2	23/3	23,	14		24
15	PROBAB	ILITY (F ACHIEVI	NG DES	IRED DAM	AGE LE	<u>ver</u> : 50	*	25



A-D-V-3

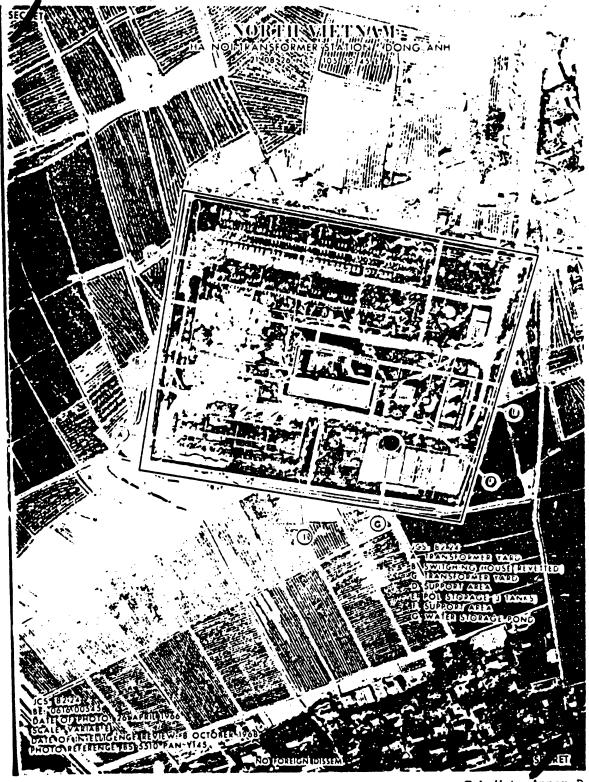
Tab V to Annex D to Appendix A

(Revised by 12th Note to Holders)



TAB WOTO ANNEX DOTO APPENDIX A

TARGET NO. 82.24



SEC ET (FF Ised by 17th N/H)

A-D-W-1

Tab W to Annex D to Appendix A



1. TARGET NUMBER: 62.24	-
2. BE NUMBER: 616-0545	2
3. IDENTIFICATION: Ha Noi Transformer Station Dong Anh	3
4. DATE OF INFORMATION: 10 September 1968 DATE OF TISD: 11 March 1969 DATE OF PHOTOGRAPHY: 26 April 1966 DATE OF INTELLIGENCE REVIEW: 8 October 1968	4 5 7
5. LOCATION: 21-08-26N 105-50-45E, located 7 NM N of Ha No1, 3 NM NNE of Red River.	8 9
6. DESCRIPTION: The target is a 110/35 kv transformer and switching station. The area is rectangular in shape and contains a 6,624 square foot revetted switching house (B), two large transformer yards (A and C), one water storage pond (G), three revetted POL tanks (E), and at least two support buildings (D & F). Area is served by secondary road.	10 11 12 13 14 15
7. SIGNIFICANCE: This target is the largest transformer and switching station in NVN. It is the main junction point for most principal transmission lines in the NVN network. The installation is vital for any exchanges of power between the major industrial areas in the country. Its main function is to supply alternate and neak load power to the Ha Noi area from the Thai Nguyen TPP (JCS #32.16) and the Viet Tri TPP (JCS #82.17).	16 17 18 19 20 21 22
8. TARGET ENVIRONMENT: Target, about 30' above sea level, is located on a broad flat plain which extends for more than 10 NM from the target in all directions. A N-S highway is located 0.15 NM E of the target and an irregularly-shaped lake, about 2.5 NM long and 0.2 NM wide, is located 2.0 NM W of target. A main railroad line passes about 1 NM to the NE of the target. There are no physical obstructions in the target area.	23 24 25 27 27 29
DEFENSE ENVIRONMENT:	30
a. The target is located within the SAM envelope.	31
b. AAA activity has been identified within 3 NM of the target.	32
c. HMG and small arms fire is anticipated.	33
10. DAMAGE OBJECTIVE: Loss of power. Damage criterion is structural damage to transformers, switching and control equipment, and auxiliary components. Damage level is 70%.	34 35 36
11. EFFECT ON NVN: Destruction of this target would eliminate the only source of alternate and additional power to the city of Ha Noi. It would also destroy the transmission network of the country, thus preventing any exchange of power between the industrial areas.	37 38 39 40 41

SEVENT NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-W-2

Tab W to Annex D to Appendix A

(Revised by 17th Note to Holders)



b. AAA activity has been identified within 3 MM of the target. c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 18. The target is within the bay and the bay of the generator hall. Damage level is 70 48.	1. <u>T</u>	ARGET NUMBER: 02.25	-
4. DATE OF INFORMATION: 3 January 1968 DATE OF FIS: 25 April 1968 DATE OF PIS: 25 April 1968 DATE OF INTELLIGENCE REVIEW: 28 March 1968 5. LOCATION: 21-44-52N 105-01-34E 6. DESCRIPTION: The target, which is under construction on the Song Chay (River), consists of a main concrete spillway dam 10 and an adjacent powerhouse section. The following parts of the 11 project are in the advanced stages of construction: concrete 12 intake and spillway sections of the dam, generator hall with 13 three turbine bays, tailrace, forebay with concrete abutiments, 14 injection apron, and earth-fill extension of dam. Initial 15 preparations are underway for building of the main dam spanning 16 the Song Chay. 7. SIGNIFICANCE: The power plant is the country's largest and most important electric power project. It is being constructed 19 with equipment and technical personnel furnished by the Soviet 20 Union. Its planned capacity of 109,500 kw is almost equivalent 21 Union. Its planned capacity of 109,500 kw is almost equivalent 21 power to the Hs Noi/Hsi Prong area and will supply electricity 22 installation is to supply a significant quantity of electric 23 installation is to supply a significant quantity of electric 23 installation to the supply a significant quantity of electric 24 for industrial development in the northwestern part of the 25 country. The project is designed as a multipurpose structure and, 26 in addition to production of electric power, will function for improvement of irrigation and navigation and for flood control. 28 country. The project is designed as a multipurpose structure and, 26 in addition to production of electric power, will function for electric power, will function for electric power, will function for supply as a significant and for flood control. 28 country. The project is designed as a multipurpose structure and, 26 in supply electricity 24 power will function for 15 country. The project is designed as a multipurpose structure and, 26 in supply electric 27 may be supply electric 29 countr	2. <u>B</u>	E NUMBER: 616-0703	2
DATE OF INTELLIGENCE REVIEW 28 March 1968 5. LOCATION: 21-44-42N 105-01-34E 6. DESCRIPTION: The target, which is under construction on the Song Chay (River), consists of a main concrete spillway dam and adjacent powerhouse section. The following parts of the limit an adjacent powerhouse section. The following parts of the limit an adjacent powerhouse section. The following parts of the limit an adjacent powerhouse section. The following parts of the limit an adjacent powerhouse section. The following parts of the limit and an adjacent powerhouse section. The following parts of the limit and an adjacent powerhouse section. The following parts of the limit and an adjacent powerhouse section. The following parts of the limit and interest the sound of the limit and interest the section of dam. Initial limit and injection apron, and earth-fill extension of dam. Initial limit and injection apron, and earth-fill extension of dam. Initial limit and still injection apron, and earth-fill extension of dam. Initial limit and most important electric power project. It is being constructed with equipment and technical personnel furnished by the Soviet limit to three-fourths of the pre-strike national capacity. This limit to the first of the project is designed as almost equivalent limit to the project is designed as a multipurpose structure and, limit to project is designed as a multipurpose structure and, limit and the project is designed as a multipurpose structure and, limit and the project is designed as a multipurpose structure and, limit and limit	3. <u>I</u>	DENTIFICATION: Lang Chi Hydroelectric Power Plant Thac Ba	3
6. DESCRIPTION: The target, which is under construction on the Song Chay (River), consists of a main concrete spillway dam to and an adjacent powerhouse section. The following parts of the troject are in the advanced stages of construction: concrete intake and spillway sections of the dam, generator hall with three turbine buys, tailrace, forebay with concrete abutments, three turbine buys, tailrace, forebay with concrete abutments, the injection apron, and earth-fill extension of dam. Initial preparations are underway for building of the main dam spanning the Song Chay. 7. SIGNIFICANCE: The power plant is the country's largest and most important electric power project. It is being constructed with equipment and technical personnel furnished by the Soviet with equipment and technical personnel furnished by the Soviet with equipment and technical personnel furnished by the Soviet control for the pre strike national capacity. This 22 installation is to supply a significant quantity of electric power to the Ha Noi/Hai Phong area and will supply electricity for industrial development in the northwestern part of the country. The project is designed as a multipurpose structure and, in addition to production of electric power, will function for improvement of irrigation and navigation and for flood control. Acceleration of construction activity could result in partial 29 operation at one-third of planned capacity by the end of 1968. 8. TARGET ENVIRONMENT: Target, about 100 ft. above sea level, is 25 NM NW of Phu Tho, 62.5 NM NW of Ha Noi. It is in 32 the valley of the 600 ft wide, SE-flowing Song Chay, on the shift of the river. Target is among small, forested hillocks which separate them. A forested hill one NM E of target peaks at 1060 ft. above sea level, and another 2.3 NM N of the target seak side of the Song Chay. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the target. c. HMS and small arms fire is not anticipated. 10. DAMAGE OBJ	T T	DATE OF TIS: 25 April 1968 DATE OF PHOTOGRAPHY: 31 July 1967	4 5 7
the Song Chay (Niver), consists of a main concrete spillway dam adjacent powerhouse section. The following parts of the project are in the advanced stages of construction: concrete intake and spillway sections of the dam, generator hall with three turbine bays, tailrace, forebay with concrete abutments, injection apron, and earth-fill extension of dam. Initial inperparations are underway for building of the main dam spanning in the Song Chay. 7. SIGNIFICANCE: The power plant is the country's largest and most immortant electric power project. It is being constructed with equipment and technical personnel furnished by the Soviet Union. Its planned capacity of 109,500 kw is almost equivalent to three-fourths of the pre strike national capacity. This installation is to supply a significant quantity of electric power to the Ha Noi/Hai Phong area and will supply electricity for industrial development in the northwestern part of the country. The project is designed as a multipurpose structure and, in addition to production of electric power, will function for immrovement of irrigation and navigation and for flood control. Acceleration of construction activity could result in partial operation at one-third of planned capacity by the end of 1968. 8. TARGET ENVIRONMENT: Target, about 100 ft. above sea level, is 25 NN NW of Phu Tho, 62.5 NN NW of Ha Noi. It is in 32 the valley of the 600 ft wide, SE-flowing Song Chay, on the 33 the valley of the 600 ft. above the flat, narrow, rice-cultivated areas which ries 300 ft. above the flat, narrow, rice-cultivated areas which ries 300 ft. above the flat, narrow, rice-cultivated areas 35 which separate them. A forested hill one NN E of target peaks 36 at 1060 ft. above the flat, narrow, rice-cultivated areas 37 reaches 1670 ft. elevation. Rugged, forested mountains are 10cated 5 NN NE of target and extend northward. Roads parallel 40 each side of the Song Chay. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM	5. <u>I</u>	OCATION: 21-44-42N 105-01-34E	8
and most important electric power project. It is being constructed with equipment and technical personnel furnished by the Soviet 20 Union. Its planned capacity of 109,500 kw is almost equivalent 21 to three-fourths of the pre strike national capacity. This 22 installation is to supply a significant quantity of electric 23 power to the Ha Noi/Hai Phong area and will supply electricity 24 for industrial development in the northwestern part of the 25 country. The project is designed as a multipurpose structure and, 26 in addition to production of electric power, will function for imporvement of irrigation and navigation and for flood control. 28 Acceleration of construction activity could result in partial 29 operation at one-third of planned capacity by the end of 1968. 30 Partial 29 of the 600 ft wide, SE-flowing Song Chay, on the 33 SE side of the river. Target is among small, forested hillocks 34 which rise 300 ft. above the flat, narrow, rice-cultivated areas 35 which separate them. A forested hill one KM E of target peaks 36 of t. above sea level, and another 2.3 NN N of the target 37 reaches 1670 ft. elevation. Rugged, forested mountains are 38 located 5 NM NE of target and extend northward. Roads parallel 40 each side of the Song Chay. 9. DEFFENSE ENVIRONMENT: a. The target is within the SAM envelope. b. AAA activity has been identified within 3 NM of the 43 target. c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 target.	the Song and an adproject a intake ar three turinjection preparati	Chay (River), consists of a main concrete spillway dam ijacent powerhouse section. The following parts of the are in the advanced stages of construction: concrete and spillway sections of the dam, generator hall with rbine bays, tailrace, forebay with concrete abutments, a spron, and earth-fill extension of dam. Initial ions are underway for building of the main dam spanning	10 11 12 13 14 15 16
8. TARGET ENVIRONMENT: Target, about 100 ft. above sea level, 1s 25 NM NW of Phu Tho, 62.5 NM NW of Ha Noi. It is in the valley of the 600 ft wide, SE-flowing Song Chay, on the SE side of the river. Target is among small, forested hillocks which rise 300 ft. above the flat, narrow, rice-cultivated areas which separate them. A forested hill one NM E of target peaks at 1060 ft. above saa level, and another 2.3 NN N of the target reaches 1670 ft. elevation. Rugged, forested mountains are located 5 NM NE of target and extend northward. Roads parallel each side of the Song Chay. 9. DEFENSE ENVIRONMENT: a. The target is within the SAM envelope. 42 b. AAA activity has been identified within 3 NM of the target. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 10. DAMAGE OBJECTIVE: Damage criterion is structural damage	and most with equivalent to three installar power to for induction additional and the country.	important electric power project. It is being constructed ipment and technical personnel furnished by the Soviet Its planned capacity of 109,500 kw is almost equivalent fourths of the pre strike national capacity. This tion is to supply a significant quantity of electric the Ha Noi/Hai Phong area and will supply electricity strial development in the northwestern part of the The project is designed as a multipurpose structure and, ion to production of electric power, will function for ent of irrigation and navigation and for flood control.	19 20 21 22 23 24 25 26 27 28
a. The target is within the SAM envelope. b. AAA activity has been identified within 3 MM of the target. c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 42. 43. 44. 45.	8. level, i the vall SE side which re which se at 1060 reaches located	TARGET ENVIRONMENT: Target, about 100 ft. above sea so 25 NM NW of Phu Tho, 62.5 NM NW of Ha Noi. It is in ey of the 600 ft wide, SE-flowing Song Chay, on the of the river. Target is among small, forested hillocks see 300 ft. above the flat, narrow, rice-cultivated areas sparate them. A forested hill one NM E of target peaks ft. above sea level, and another 2.3 NM N of the target 1670 ft. elevation. Rugged, forested mountains are 5 NM NE of target and extend northward. Roads parallel	3234567890
b. AAA activity has been identified within 3 MM of the target. c. HMC and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 percent.	9.	DEFENSE ENVIRONMENT:	41
c. HMG and small arms fire is not anticipated. 10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 15. Damage of the generator hall.			42
10. DAMAGE OBJECTIVE: Damage criterion is structural damage to the turbine bays of the generator hall. Damage level is 70 48	target.	b. AAA activity has been identified within 3 MM of the	
to the turbine bays of the generator hall. Damage level is 70			_
	to the	turbine bays of the generator hall. Damage level is (



SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-D-X-2 (REVISED BY 14TH NOTE TO HOLDERS)

Tab X to Annex D to Appendix A

TAB Y TO ANNEX D TO APPENDIX A TARGET NO. 82.26



SEPRE I We apon	250# Snakeye up	250# BULLPUP	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A-1 [100x200]	4/1	2/1	11/1	7/1	6/1	1
Area B (150	x250) 16/1	11/6	39/3	20/2	12/2	2
Totals	20/2	13/7	50/4	27/3	18/3	3
	Weapons/Sorties ts shown above:	operationall	y required to ach	neve "over lar	get"	4 5
	24/2	16/8	61/6	33/4	22/4	6
(3) J		ve a damage	level of 70%, we	apons/sorties	required	7 8
Weapon	250# SNAKEYE or	250# BULLPUP	250# or <u>BOMB</u> or	500# BOMB or	750# BOMB	
Area A· I	14/1	7/4	37/3	24/3	21/5	9
Area B	54/5	37/18	132/11	68/7	41/7	10
lutais	68/6	44/22	169/14	92/10	62/10	11
	Weapons/Sorties		ly required to ac	hieve "over ta:	rget"	12 13
	83/7	54/27	206/18	112/13	76/13	14

15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%.

SECRET NO FOREIGN

#66

15

Tab BW to Annex C to Appendix A

TAB BWa TO ANNEX C TO APPENDIX A

TARGET NO. 66 1





Lab BWa To S Annex C To Spperdix A



ı	•	TARGET NUMBER: 66.1	I
2	2.	B. E. NUMBER: 0616~0888	2
3	3.	DENTIFICATION: Ha Not Radcom Revr Phu Coc	3
÷		DATE OF THE ORNBETTON TO CONTENT THE	4
		DATE OF 135. IT MERCH 1700	-
		DATE OF THO TOOKIN III. TO CONSESS THE	6 7
		DAIE OF INTELLIGENCE REVIEW: 10 January 1968	•
•	5.	LOCATION: 20-51-36N 105-53-26E	8
(ь.	DESCRIPTION, A SEIRE III TECISCOMMISSION STATEMENT CONTRACTOR CONT	9
NM S	SE	ul downtown Ha Noi. Facility consists of a secured administration/control	10
arnd	(A)	containing a large U-shaped operations building, two large buildings and	11
ion r	£ 173 e	buildings. An antenna field (B) surrounds the administration/control	12
15rd	·A·	and includes 6 fishbone, 6 horizontal dipole, and 8 vee antennas. A	13
sepal	rate	becared support area (C) contains 4 barracks, an auditorium, a mess-	14
hall	8 •	support buildings, and 5 small buildings.	15
	-	SIGNIFICANCE: This installation is believed to serve primarily as a	16
- .,	٠,,	n tinding (DF) receiving control station, based on antenna types installed	17
	tie .	r orientation. This facility probably receives DF data from various out-	18
4 ala	UES	monitoring allied electromagnetic radiation signals, and could also be used	19
a 5 1	or	nmunication terminal on other military networks.	20
		IARGET ENVIRONMENT: Target, about 15 feet above sea level, is 9	21
	5.	th of Ha Noi, on the flat plain of the Red River delta. The plain is inten -	22
NM !	,	ultivated in wetland rice and contains many small, compact villages;	23
P1/4.		villages located within one NM of target. The largest relief features on	24
8616	rdi Jan	n are levees 20-30 feet high bordering the Red River, which flows SSE	25
the p		NM east of target. An E-W highway on north side of target connects road	26
1000	· ·	er levee with a principal N-S highway, one NM west of target, highway west	27
otia	rge	t adjacent to N.S railroad.	28
	۹.	DEFENSE ENVIRONMENT:	29
		The target is within the SAM envelope.	30
		b. AAA activity has been identified within 3 NM of the target.	31
		. HMG and small arms fire is anticipated.	32
arra	10. 3vs.	DAMAGE ORJECTIVE: Destruction of operations buildings and antenna Damage level is 70%.	33 34

SERRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BWa-2

Tab BWa to Annex C to Appendix A

(Revised by 13th Note to Holders)



DF receiver control station, its destruction would mean a serious loss to NVN of intelligence data on allied operations derived from electromagnetic radiation signals such as would be received from radiocommunication and radar transmissions. If used solely as a radiocommunication receiving station, destruction would have an adverse effect on military administrative and control communications, and cause some overloading of HaNoi area circuits that would have to handle	2 3 4 5
12. RECUPERABILITY:	10
a. Destruction of operational buildings expected to result in almost total loss of capability. Resultant shock damage would render installed equipment beyond recovery.	11 12 13
 b. Temporary building repairs could be accomplished in 1 to 2 weeks, permanent reconstruction would probably require 1 to 2 months. 	14 15
. Replacement of electronic equipment, highly dependent on outside availability, technical competence, and transportation factors, is expected to require 4 weeks.	16 17
d. Temporary antennas could be erected in a relatively short time span.	lò
d. Temporary antennas could be erected in a relatively of the second of	19
13. COLLATERAL DAMAGE:	20
a. None.	21
b. Population Casualties	22
[arget Area Adjacent Area Target Area Adjacent Area	23
Mil Civ Mil Civ Mil Civ	24
40 U 500 10 3 0 5 0	25
Casualties estimated under daylight alert conditions.	26
14 RECOMMENDED WEAPONS AND SORTIES:	27
This telecommunication site is comprised of three areas. Two areas	28
	29
	30 31
prescribed, total weapons/sorties required over the target are also shown	71
(1) In order to achieve a damage level of 30%, weapons/sorties required over target:	32

SEPRET

#66.1

A-C-BWa-3

Tab BWa to Annex C to Appendix A SECLET

	250#	250#	500 #	750#	
Weapon	SNAKEYE or	BOMB or	BOMB or	BOMB	
Area A-1 (400x500)	80/7	113/9	67/8	46/8	1
Area C (500x	(600) 69/6	91/8	47/5	28/5	2
Totals	149/13	204/17	114/13	74/13	3
(2) requirement	Weapons/sorti	ies operation	ally required to	achieve "over target"	4 5
	182/16	249/21	139/16	90/15	6
(3) required ove		hieve a dama	ge level of 70%,	weapons/sorties	7 8
	250#	250#	500#	750#	
We∉pon	SNAKEYE O	r BOMB of	BOMB or	BOMB	
Area A-1	270/23	382/32	227/25	156/26	9
Area C	233/19	307/26	158/18	95/16	10
101418	503/42	689/58	385/43	251/42	. 11
(4) requiremen	Weapons/sorts shown above:	lies operation	nally required to	achieve "over target"	12 13
	613/52	840/70	470/53	306/51	14
15. PR	OBABILITY OF	ACHIEVING	DESIRED DAM	AGE LEVEL: 50%	15

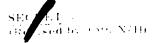
SECRET

#66.1

TAB BY TO ANNEX C TO APPENDIX A

TARGET NO. 67





Tab EX To Affinex C To Appendix A

1. TARGET NUMBER: 67	1
2. BE NUMBER: 616-0165	2
3. IDENTIFICATION Ha Not Intl Radcom Revr Son Dong	3
4. DATE OF INFORMATION: 10 January 1968	4
DATE OF TIS: 12 March 1968	5
DATE OF PHOTOGRAPHY: 28 October 1967	6
DATE OF INTELLIGENCE REVIEW: 10 January 1968	7
5. LOCATION: 21-02-57N 105-41-30E	8
6. DESCRIPTION: A radio communication receiving facility located 8.6 NM	9
WNW of Ha Not. Facility is within a fenced area and contains a single-story	10
masunry type administrative and control operations building (A-Z), a possible	11
electrical power substation (A-1), 2 guard towers, and approximately 17 barracks	12
and support buildings (A-3). Antenna field (Area C) has 3 large and 3 small	13
double rhombic antennas arranged in pairs for day/night operations, 2 other	14
double rhombics. 7 single rhombics, and 6 horizontal dipoles. Target area is	15
approximately 800 feet by 600 feet and is served by a secondary road.	16
7. SIGN FICANCE. This facility is the largest and best equipped radio	17
receiving station in NVN and like the transmitter station at Dai Mo, is also	18
and layed to be jointly used by civil and Ministry of National Defense departments	19
of the government. The Ministry of National Defense could use this facility for	20
iong have administrative and command type communications from South Vietnam	21
and lauras well as merountry. In addition, the Ministry of National Defense	22
and united this station for military coordination matters with Communist China	23
and the USSR. In the civilian capacity it could be used for the reception of diplo-	24
matic press and weather messages.	25
8. TARGET ENVIRONMENT: Target is about 20 feet above sea level,	26
8. TARGET ENVIRONMENT: Target is about 20 feet above sea level. In ated 10 71M west of Ha Not, on flood plain intensively cultivated to wetland	27
rice. Plain dotted with village clusters, many trees in villages. Few small	28
lakes, and rossed by small canals; large N-S oriented Red River cuts through	29
plain. Principal roads near site are, a N-S oriented road 0. 9 NM west, a NW-	30
SE oriented road 2.1 NM north to Ha Noi, intersected by a N-S oriented road	31
3 NM east. About 20 to 25 NM north and west of target, plain bordered by	32
wooded hills and mountains.	33
9. DEFENSE ENVIRONMENT:	34
a. The target is within the SAM envelope.	3:
	36
b. AAA activity has been identified within 3 NM of the target.	
HMG and small arms fire is anticipated.	37

SECRET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-BX-2

Tab BX to Annex C to Appendix A

SECKET										
10. DAMAGE OBJECTIVE: Destruction of antenna towers and operations buildings. Damage level is 70 percent.										2
11. EFFECT ON NVN: Destruction of this radio receiving facility would disrupt the NVN diplomatic, international press, weather, and high level military traffic. This would overload other radio receiving facilities in the Ha Noi area and impede military coordination.										3 4 5 6
12. RE	CUPERA	ABILIT	<u> Y:</u>							7
90 to 95 per for salvage.	cent das	mage t	o ele	ctronic e	quipn	ient, with	very 1		••••	8 9 10
b. plished in a	Repair bout 3 to	of buil	dings eks.	and rep	lacen	nent of equ	ipment	could be a	iccom-	11
c. in 2 to 4 me	Electro	nic eq ependi	uipm ng up	ent and a	ntenn e and	a fields co technical	uld be assist	rebuilt or	replaced	13 14
•	LLATE						7		•	15
4.	None						•			16
b.	Po	pulatio	on					Casualties	•	17
	Target	Area	Adja	cent Are	:&	Target	Area	Adjacent	Area	18
	Mil	Civ	Mil	Civ	•	Mil	Civ	Mil	Civ	19
	50	15	0	10)	3	1	0	0	20
	- Casual	lties e	stima	ited unde	r day	light alert	condit	ions.		21
						SORTIES:				22
	In ord						, wear	oons/sortie	s required	23
Weapon	-	50# SOMB	or	500# BOMB	or	750# BOMB	or	1000# BOMB		
(400×600)		80/7		41/5		24/4		21/7		24
	. Weap	ons/so wn abo	rties	operation	nally	required	to achi	eve."over	target"	25
		98/9		50/6		29/5		26/9		26

#67

A-C-BX-3

Tab BX to Annex C to Appendix A

c. In order to achieve a damage level of 70%, weapons/sorties required over target: 1000# 500# 750# 250# BOMB BOMB BOMB or BOMB Weapon 71/24 81/14 138/16 d. Weapons/sorties operationally required to achieve "over target" requirements shown above: 99/17 67/29 168/19 529/28 15. PROBABILITY OF ACHIEVING DESIRED DAMAGE LEVEL: 50%

SECRET

#67

A-C-BX-4

Tab BX to Annex C to Appendix A

(Revised by 13th Note to Holders)



TAB CS TO ANNEX C TO APPENDIX A

TARGET NO. 67.3



1. TARGET NUMBER: 67.3	1
2. BE NUMBER: 617-0647	2
3. IDENTIFICATION: Chanh Hoa Military Radio Communication Station	3
4. DATE OF INFORMATION: 5 January 1965 DATE OF TIS: 17 March 1965	5
5. <u>location</u> : 17-31-50N/106-34-40E, UTM XE 674388	7
6. DESCRIPTION: A radio communication facility serving the Chanh Hoa military reservation about 4 NM NW of Dong Hoi. Main installation is within a fenced area and consists of a communication building, transmitter building and four guyed lattice-type towers north of the operation building. SE of this facility is a probable transmitter site with one rhombic antenna array. A cable system connects the two installations. Two possible direction-finding facilities are located nearby. A primary road serves both installations.	8 9 10 11 12 13 14 15 16
7. SIGNIFICANCE: This installation is assumed to provide radio communications for the 325th Division and links division headquarters with the IV Military Region in Vinh and with PAVN Headquarters in Hanoi. In addition, this facility may also serve as the communication link between the 325th and its Viet Cong elements operating in South Vietnam and Laos.	17 18 19 20 21 22
8. TARGET INVIRONMENT: Target is about 50 ft. above sea level, 1.4 miles S. of N./-SE trending coastline. Area of sand dunes, 0.5 to 1.0 miles wide, borders coast except along SW side of Song Dinh. Flat wetland ricefields, which enclose target, border SW bank of Song Dinh and back the dunes area, extending inland 1.7 miles to large area ov very low hillocks covered by brushwood and scrub. Small tributary to Song Dinh flows NNE 400 yds. E of target; coastal road and abandoned railway, oriented NW-SE, located 0.7 miles SW of target. Target is about 2,100 yds. behind SE part of NIS major beach 44. Sand beach with scattered gravel and immediately backed by dunes. Tide 3 ft., tropits. Depths in approaches: 62 ft. depths 70 to 200 yds. off L.W. line. 18-ft. depths 350 to 1,000 yds. off L.W. line, 36-ft. depths 700 to 2,500 yds. off L.W. line. Offshore approach is partly obstructed by shoal with least depth of 26 ft. about 1,800 yds. off SE part of the beach and by drying rock, 1,700 yds. off SE part. Nearshore approach partly obstructed by shifting bars off L.W.L. and flanked by river-mouth bars and shoals. Surf is 4 ft. or higher, occurs 26% of the time in November-March, 9% in April-September, and 38% in October. Nearshore bottom is sand and mud.	3456789012345678901234
9. DEPENSE ENVIRONMENT:	45
a. Dong Hoi area AAA defense include 7 active sites, with 29 light (14.5mm-37mm) AAA positions occupied and 4 positions unoccupied, plus 10 inactive sites (47 positions unoccupied).	46 47 48 49
b. The 501st Coastal Security Battalion has been reported resident in the area, as are the HQ and some operational elements of the 325th Infantry Division. AW	50 51 52

TOP CRET

A-C-CS-2 Tab CS to Annex C to Appendix A

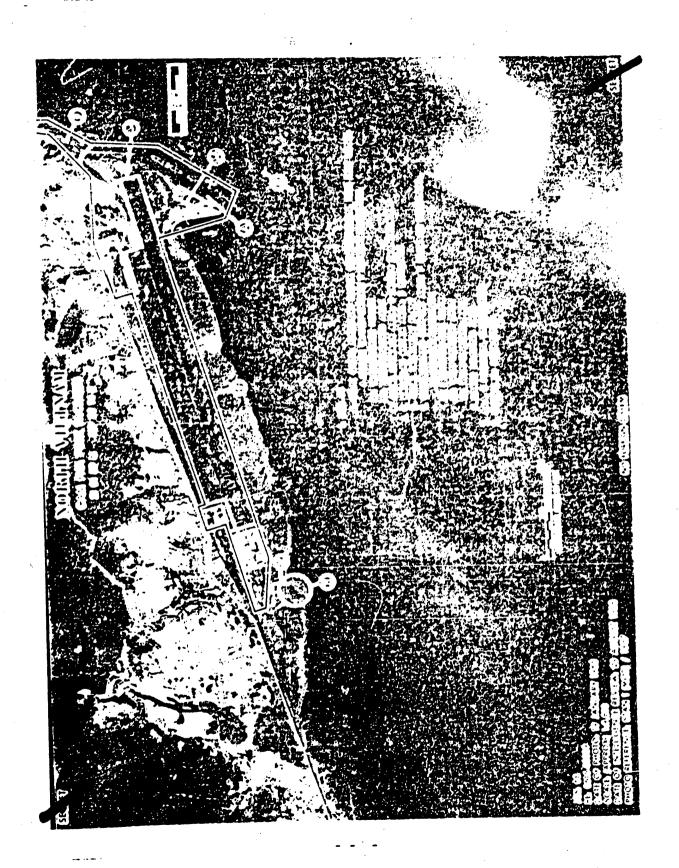


c. KNIFEREST-B and SCR-270 early warning radars are located at 17-30-00N/106-36-00E (XE 699354).	1 2							
20 DAMAGE OF TECTTUE: Destruction of the lattice-type	3							
towers, communication and transmitter buildings and transmitter site.								
11. EFFECT ON NVN: Destruction of this radio facility would disrupt command radio communications between the 325th Divi-	6 7 8							
sion Headquarters in Dong Hol, the IV Military Region Read-	9							
in South Vietnam and Laos. The extending open-wire lines	10 11							
could the low level, tactical radio facilities.	12							
12. RECUPERABILITY:	13							
a. Destruction of buildings housing the radio facilities would cause about 75% destruction to the electronic equipment, with very little remaining salvagable.	14 15 16							
The te helieved mobile, but-mounted radio facilities	17 18							
could be moved into the area and assume communications control. Repair of buildings could be accomplished in	19							
3-10 days.	20 21							
c. Electronic equipment and antenna replacement would be from 3-15 days, depending on source, transportation, technicians, etc.								
13. COLLATERAL DAMAGE: Insignificant.	24							
14. RECOMMENDED WEAPONS AND SORTIES:	25							
a. In order to achieve a damage level of 30%, weapons/ sorties required over target:	26 27							
250# 250# 500# 750# Weapon: SNAKEYE or BOMB or BOMB								
9/1 38/3 19/2 11/2	28							
b. Weapons/sorties operationally required to achieve "over target" requirements shown above:	29 30							
11/1 46/4 23/3 13/2	31							
c. In order to achieve a damage level of 70%, weapons/ sorties required over target:	32 33							
31/3 128/11 64/7 37/6	34							
d. Weapons/zorties operationally required to achieve "over target" requirements shown above:	35 36							
38/3 156/13 78/10 45/8	37							
DESCRIPTION OF ACUTEVING DAMAGE CRITERION: 50%	38							



A-C-CS-3

Tab CS to Annex C to Appendix A





1. TARGET NUMBER: 68	1
2. BE NUMBER: 615-0009	2
3. IDENTIFICATION: Cam Pha Port Facilities	3
DATE OF INFORMATION: 8 June 1968 DATE OF TISD: 13 November 1968 DATE OF PHOTOGRAPHY: 19 January 1965 DATE OF INTELLIGENCE REVIEW: 28 August 1968	4 5 7
on the Gulf of Tonkin.	
6. DEECRIPTION: Cam Pha in the principal coal export facility In NVN. Key elements of the port are: (A) 1,000 ft. coal quay of masonry block construction with 4 bridge transporters and 9 support buildings; (Al) transformer house; (B) coal storage area with 5 bridge transporters; (C) railroad repair shop area with 8 buildings; (D) coal-treatment plant; (E) storage/support area with 7 probable storage buildings and 10 support buildings; (E1) revetted POL tank; (F) barge loading area.	10 11 12 13 14 15 16 17 18
7. SIGNIFICANCE: Cam Pha port is designed primarily to handle the export of coal from nearby mines. A lack of covered storage and the port's remote location from the Hai Phong/ Ha Noi complex inhibit its usefulness as a general cargo port and receipts are consequently small. However, Cum Pha could receive an estimated 1.300 short tons of general military cargo per 10-hour working day (16% national maritime cargo handling capacity). The port can accommodate deeper draft vessels than the other principal NVN coal export point, Hon Gai, and thus represents a key installation in the NVN coal export industry, their main source of foreign currency. Also cam Pha is NVN's closest maritime port to Communist China and therefore a potential surreptitious receiving point for southbound CHICOM aid.	22 23 24 56 26 27 27 27 27 27 27 27 27 27 27 27 27 27
8. TARGET ENVIRONMENT: Target at sea level, 4.3 NM E of Cam Pha Mines, on the irregular coast of the Julf of Tonkin Cultivated hillocks and flat areas containing stockpiles of coal extend along coast in vicinity of target and reach about 0.3 NM inland to the base of wooded hills. The hills extend westward and attain an elevation of 1,560 ft. above sea level within 3 NM of the target. The southern tip of the large, within 3 NM of the target. The southern tip of target, and a small, brush-covered island, 370 ft. above sea level, is located 0.7 NM N of target. The target is served by a coastal road and rail line to local mines.	36 37 38 39
O. DEFENSE ENVIRONMENT:	44
a. The target is not within the SAM envelope.	45 46
b. AAA activity has been identified within 3 NM of	47
the target. c. HMG and small arms fire is not anticipated.	48
SE NET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING	

(Revised by 15th Note to Holders) $\Lambda = C - CN - 2$

TABCZ to Annex C to Appendix A



10. DAMAGE OBJECTIVE: To deny use of port facilities through destruction by air strikes. Damage level is 30% with structural damage to buildings, bridge transporters, and stored pole in target areas plus associated damage to quay, mechanical handling facilities, rails, rolling stock and goods in storage destruction of bridge transporters in Area B is critical to interdiction of coal loading. 11. EFFECT ON NVN: Major reduction in capability to export coal with consequent loss of fereign exchange credits. 12. RECUPERABILITY: Restoration of damaged wharfage could probably be accomplished in less than two weeks, utilizing temporary construction techniques. Rehabilitation of additional damage to buildings, mechanical handling facilities, rolling stock, and coal processing equipment could extend to six months since repair of antiquated French equipment would be accomplianted by the since repair of antiquated French equipment would be six months since repair of antiquated French equipment would be six months.	d :	1234567 89 101123456
probably require special manufacture of replacement parts.		17
13. COLLATERAL DAMAGE:		18
a. Light damage to surrounding area. Casualties*		19
b. Population	e & .	20
Target Area Adjacent Area Target Area Adjacent Area		21
WII CIV WII CIV WII OI		
0 1/30 () 1/550 0 10	-	52
*Casualties estimated under daylight alert condition	8.	23
14. RECOMMENDED WEAPONS AND SORTIES:		24
This target complex is comprised of 6 areas. Four areas (with 5 sub-areas) have been delineated for weapons application. Weapons and sorties have been computed for each area. To show the effort required to achieve the damage level prescribed, total weapons/sorties required over the target are also shown:	:	25 26 27 28 29 30
(1) In order to achieve a damage level of 30%,		31 32



#68

C E C ETT		1		•	
SECART WEAPON	250# SNAKEYE	500/ Snakeye	500# 30MB	750# BOMB	1 2
Area A (155'x60')	9/1	5/1	18/2	10/2	3
Area A-2 (415'x115') 17/1	9/1	24/3	14/2	4
Area C (415'x250')	38/3	16/2	28/3	14/2	5
Area D (230'x190')	62/5	33/4	72/8	52/9	6
Area E-1 (36'- D1a)	9/1	7/1	29/3	25/4	. 7
Area E-2 (655'x255'		19/2	35/4	21/4	8
Area E-3 (185'x45'		5/1	18/2	11/2	. 9
Total	181/15	92/12	224/25	147/25	10
(O) Hearo	ns/sorties	operations	lly requi	red to ach	leve 11 12
"over target" requ	1rements 5	HOWN GBOTOL	269/50		13
	218/18	113/13		_,,,,	14
(3) In or weapons/sorties re	der to ach quired ove	ieve a dama r target:	ge Tever	01 10/49	15
WEAPON	250# SNAKEYE	500# SNAKEYE	500# BOMB	750# BOMB	16 17
A-1	30/3	16/2	58/6	34/6	18
A-2	56/5	29/3	80/9	47/8	19
	128/11	51/6	93/10	45/8	50
С	208/17	109/12	241/2	7 173/29	21
D	58 \ S	55\5	96/11	83/14	22
E-1	123/10	63/7	118/1	13 70/12	23
E-2	50/5	15/2	59/7	35/6	24
E-3 Total	602/50	305/34	745/	86 487/83	25
(/i) Wea "over target" re	pons/sortic	es operation	nally reque:	ulred to ac	chieve 26 27
"Over target re	723/60		894/	99 585/98	28
15. PROBABI		HIEVING DES	IRED DAMA	GE LEVEL:	50% 29

SECAPT

#68



,	(4) Wer'over tar	apon: ;et"	c/sortie require	s op ment	erationu shown a	po n c	required to achieve	;
WEAPON	500# BOMB	or	750# BOMB	or	1000# BOMB	or	250# Snakeye	
	959/107	,	591/99		502/167		384/32 Plus 227/38 750# Bombs on Area A	3 4 5 0
15.]	PROBABILI	TY O	F ACHLEV	LNG	DESIRED	DAMA	GE LEVEL: 50%	7

TOP OF SHET

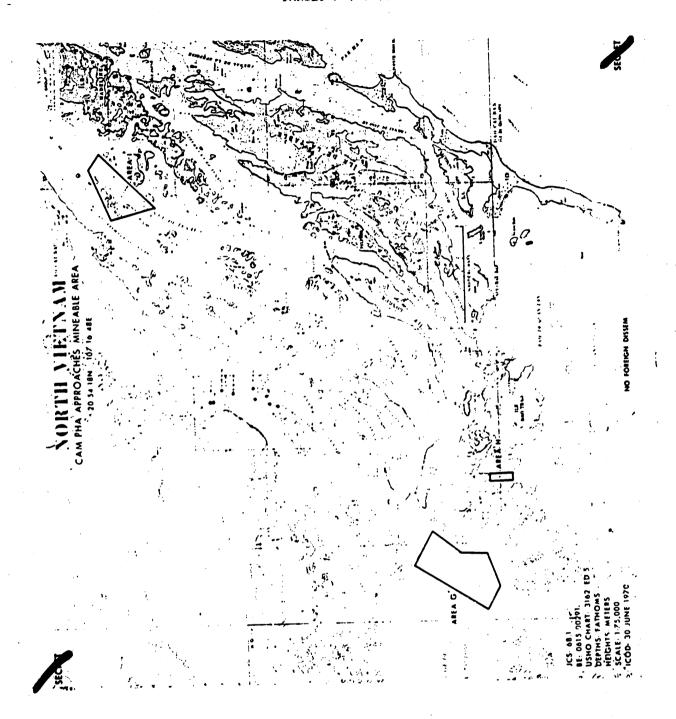
という 日本教徒の教育を大変ないので

A-C-CZ-5

Tab CZ to Annex C to Appendix A



TAB CZa TO ANNEX C TO APPENDIX A TARGET NO. 68.1



SECRATION DESCRIPTION OF SECRETARIES IN THE SECRETARIES OF SECRETA

A-C-CZa-l

Tab CZa to Armex C to Appendix A



1. TARGET NUMBER: 68.1	b
	2
	3
4. DATE OF INFORMATION: 22 February 1971 DATE OF TISD: 23 February 1971 DATE OF PHOTOGRAPHY: Not Applicable DATE OF INTELLIGENCE REVIEW: 22 February 1971	4 6 7
	8 9
consist of 3 mineable areas, 2	10 11
a. Area Golf, (2.5 NM x 1.3 NM), lies at the intersection of Chenal De La Saone, Passe De L'aspic, and Passe Due Casque, N and W of Ile des Biches. Depths range from 24' to 72'.	12 13 14
b. Area Hotel (0.5 NM x 0.2 NM) lies in Passe De La Mouche, E the southern tip of Ile Kieu. Depths range from 36' to 90'.	15 16
c. Area India (2.4 NM x 1.0 NM) about 7 KM northeast of Cam Pha Port lies in the Chenal Du Lynn, chenal on Duchaffunt, W of Ile Madeline. Depths range from 4' to 36'.	17 19 19
d. Tide rises 3.3' above datum at MLLW to 10.5' above datum at MHHW, with currents of about 3 kts. Bottom is generally mud and sand.	20 21 22
7. SIGNIFICANCE: In 1970 Cam Pha handled 83% of NVN coal exports, the main source of NVN foreign currency, and is the NVN port nearest to Communist China. Mining of the approaches would restrict deepwater access to the port.	23 24 25 26
8. TARGET ENVIRONMENT: Three areas located among steep-sloped carst islands. Areas Golf oriented NE-SW about 7-10 NM SW of Cam Pha. Areas located SE of Ile due Milieu (max. elev. 231') and to NW of Ile du Milieu (max. elev. 323'). Area Hotel located in channel between The Kieu (max. elev. 557') on the W and Ile Dao Trao (max. elev. 751') on the E; approximately 8.5 NM S of Cam Pha. Area India located in chenal Du Lynn, between the shore (max. elev 1260') on W and Ile Madeline (max. elev. 919') on W; 7 NM NE of Cam Pha Port.	
9. DEFENSE ENVIRONMENT:	35
a. The target is not within the SAM envelope.	36
b. AAA activity has been identified within 3 NM of the target.	37
c. HMG and small arms fire is not anticipated.	38



SERET NO FOREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING (Revised by 17th Note to Holders)

Tab CZa to Annex C to Appendix A



10. DAMAGE OBJECTIVE: Interdict NVN coastal cargo vessels and naval craft; deny use of Cam Pha port facilities.	1 2
11. EFFECT ON NVN: Reduction of coal export capability and consequent loss of foreign currency.	3
12. RECUPERABILITY: At present the NVN has only a very limited minesweep capability.	5
13. COLLATERAL DAMAGE: Possible damage to fishing craft transiting area.	7 8
14. RECOMMENDED WEAPONS (MINEABLE AREAS):	9
MK 52 MK 55	10
23	11
15. FROBABILITY OF MODERATE DAMAGE TO A SINGLE SHIP TRANSITING THE MINEFIELD AREA (ALL FIELDS COMBINED): 30%	12

SEC DT

TO THE PROPERTY OF THE PROPERT

A-C-CZa-3 (Revised by 17th Note to Holders) Tab CZa to Annex C to Appendix A



TAB DA TO ANNEX C TO APPENDIX A ...

TARGET NO. 59



SECOLT (Revised by 14th N/H)

A-C-DA-I

Tab DA To Annex C. To Appendix A



1. TARGET NUMBER: 69	-
2. BE NUMBER: 615-0008 615-0148	2 3
3. IDENTIFICATION: Hon Gai Bai Chay Port and Haval Complex	4
4. DATE OF INFORMATION: 29 March 1968 DATE OF TIS: 14 May 1968 DATE OF PHOTOGRAPHY: 31 July 1966 DATE OF INTELLIGENCE REVIEW: 3 April 1968	5 6 7 8
5. LOCATION: 20-57-12N 107-04-00E (Reference point only - not an individual B.E. coordinate)	9 10
6. DESCRIPTION: This complex is comprised of two sections divided by Cua Luc - the commercial port area on the east and the naval base on the west.	11 12 13
a. Pacilities contained in the port area are (A) the port authority HQ; (B) 2 masonry quays with a total berthing length of 500 ft., and one offshore wharf 270 ft. long, all with alongside depths of 19 ft. On the inner face of the offshore wharf, 210 ft. of berthing space available for barges, with alongside depths of 13 ft.; (C) a 1,325 ft. masonry seawall fronted by drying beach, access by small boats only; and (D) a warehouse area containing 7 warehouses with a total floor space of approximately 65,000 sq. ft., several acres of openstacking space, a 70-ft. wood deck pier with open wood pilings. Four cranes are located on the wharves and a half-acre coal storage area is located to the rear and east of the wharves. A coal processing plant is located between the warehouses and the coal storage area. Rail lines clear these wharves and pier approaches to adjacent industrial and mining areas only. The buildings are mostly one story with concrete walls and wooden roofs.	14 156 178 190 122 223 223 223 230 230 230 230 230 230 2
b. The naval base (E) contains an offshore wharf 330 ft. long constructed of wooden decking on metal-braced wood piles with an estimated 7 ft. depth alongside, two multi-story barracks, a T-shaped administration building, four probable storage buildings, a ship repair area with a transversing marine railway, a T-head pier and support shops. Under construction north of the pier are probable additional barracks and storage buildings.	31 32 33 34 35 36 37 38
c. The railroad maintenance and repair shops area (F) contains five buildings with concrete walls and corrugated sheet steel roofs. The shops are used for repair of railroad rolling stock and mining equipment.	39 40 41 42



NO POREIGN DISSEM EXCLUDED FROM AUTOMATIC DOWNGRADING

A-C-DA-2 (REVISED BY 14TH NOTE TO HOLDERS) Teb DA to Annex C to Appendix A

7. SIGNIFICANCE: Hon Gai port is primarily a coal export point; it handles about 5% of the total MVN international maritime trade. It is also an important loading site for coal distributed by coastal barge to other parts of North Vietnam. Hon Gai Naval Base and Ship Repair Yard Bai Chay is headquarters of the Northern Fleet. Its marine railway is capable of drydocking P-4, Shanghai and Swatow class naval craft. Estimated military port capacity	1234567890
its lack of rail clearance to the Hai Phong/Ha Noi industrial complex.	11 12
which converge seaward, enclosing fan-shaped Port Courbet (Hon Gai Bay). The peninsula tips are separated by the 0.3 RM-wide entrance to the bay; the bay extends 2.5 RM north from the entrance to mangrove swamps backed by hills and mountains. The peninsulas are hilly, with tops 300 to 600 feet above sea level. Land within one	13 14 15 16 17 18 19 20 21
9. DEFENSE ENVIRONMENT:	22
a. The target is within the SAM envelope.	23
b. AAA activity has been identified within 3 MM of the target.	24 25
c. HMG and small arms fire is anticipated.	26
10. DAMAGE OBJECTIVE: To deny use of port and naval facilities to MVN through destruction by aerial bombing. Damage level is 30% with structural damage to buildings, cranes, rolling stock and wharfage plus accompanying damage to goods in storage and naval vessels in port.	27 28 29 30
11. EFFECT ON NVM: Reduction in capability to export coal, a consequent loss of foreign exchange earnings, disruption of the NVM internal coal distribution system, and a loss of naval support capability in the northern fleet area.	31 32 33 34
12. RECUPERABILITY:	35
Damage assessment: 3 days	36
Debris clearance and procurement of lumber: 5 days	37
Repair of buildings: 4 days	38
Repair of wharves, and rail clearance: 6 days	39
Total: 18 days	40



A-C-DA-3 (REVISED BY 14TH NOTE TO HOLDERS) Tab DA to Annex C to Appendix A

ECLET						
13. COLLATERAL DAI	MAGT.					1
a. Light dam	age to surrounding	area.				2
b.	Population		Ca	sualtie	3 *	3
Target Area	Adjacent Area	Target A	\rea	Adjacent	t Area	4
Mil Civ	M11 C1V	MII	Civ	MII	Civ	5
200 1030	o 2670	12	62	O	27	6
* Casualties	estimated under d	aylight a	lert (conditio	ns	7
	EAPONS AND SORTIES					
This confirmed the areas have been and sorties have been required to achieve the sorties required over	computed for each	apons app area. To scribed,	EHOM	the eff	ort	8 9 10 11 12
(1) In sorties required over	order to achieve	a damage 1	evel	of 30%,	weapons/	13 14
Weapon	500# Snakeye		750 BOI			15 16
Area B (300 x 950)	42/5		52,	/9		17
Area D (450 x 800)	41/5		27.	/4		18
Area E (250 x 1450)	40/4		41	/7		19
Area F (250 x 650)	56/6		45	17		20
Total	179/20	•	165	/27		21
over target requireme	eapons/Sorties oren	rationally	requ	ired to	achieve	22 23
•	215/24	1	_	3/33		24
(3) Is sorties required ever	n order to achieve r target:	a damage	level	L of 70%	, weapons/	25 26
WEAPON	500# Snakeye		. 6	50# 0MB		27 28
Area B	142/16		17	5/29		29
Area D	138/15		9	1/15		30
Area E	135/15	•	13	8/23		31
Area F	189/21		15	2/25		32
Total	604/67		55	6/92		33
(4) We "over target" require	reapons/sorties operements shown above	rationall	y req	uired to	achieve	34 35
	724/80		66	66/111		36
15. PROBABILIT	Y OF ACHIEVING DES	IRED DAMAG	E LE	VEL: 50	5	37
SEC.ET	A-C-D (REVISED BY 14TH	A-4 NOTE TO I	HOLDE	RS)	Tub DA to Annex C to Appendix A	

13.	COLLATER			itly on or	accomplider.				8
	a. Insia	gnifica	int						9
	b.	_	Population	on .		Cas	naities	•	10
	- •	Area	Adjaces	nt Area	Target	t Area	Adjace	nt Area	11
	Mil	Civ		Civ	Mil	C1v	Mil	Civ	12
•	0	185	0	900	0	11	. 0	9	13
	•	_	estimate	d under d	aylight	alert c	onditio	ns.	14
	RECOMMEN								15
• •					• •				
been c	This seen deline computed for level pre	insta	llation or weapo	is compri	sed of sation.	# = 0011	to beal	nree of which orties have achieve the target	16 17 18 19 20
damage	This seen deline computed for level pressons shown:	instaleted for this escribe	llation or weapo area. d, total	is compri ons applic To show t weapons/	sed of station. The effor sorties	t require	lred to	achieve the	17 18 19 20 21 22
damage ure al	This een deline computed for elevel pre so shown: (1) red over to	instaleted for this escribe	llation or weapo area. d, total	is compri ons applic To show t weapons/	sed of station. The effor sorties	t require	lred to	achieve the the target eapons/sorties	17 18 19 20
requir	This seen deline computed for level preciso shown: (1) red over to	insta eated for this escribe In ord arget:	llation or weapo area. d, total	is compring applications applicate to show the weapons/	sed of station. The effor sorties	t require	lred to ed over	achieve the the target eapons/sorties	17 18 19 20 21 22
requir	This seen deline computed for level preciso shown: (1) red over to	instal ated for this escribe In ord arget:	llation or weapo area. d, total er to ac 265')	is comprisons applicate to show the weapons/ chieve a comprison of the shows the shows a comprison of the shows a compris	sed of sation. The effor sorties	t require	70%, wo	achieve the the target eapons/sorties	17 18 19 20 21 22 23 24

SEC AT

N-D-Y-3
(Revised by 17th Note to Holders)

Tab Y to Annex D to Appendix A