

NSC APPROVED FOR  
RELEASE 17 September 1981

~~TOP SECRET~~

Requirement for a system

CORONA/GAMBIT/LANYARD

HANDLE VIA BYEMAN-TALENT/KEYHOLE-  
COMINT CONTROL SYSTEMS JOINTLY

Copy No. 1000 of 75

BYE-4590-64

USIB-D-41.13/12

(COMOR-D-13/16)

27 July 1964

Limited Distribution

Approved by USIB-D-41.13/12  
attached

H FILE  
NO. 1112

UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : Long-Range Requirements for Satellite  
Photographic Collection

REFERENCE : USIB-D-41.13/10 (COMOR-D-13/14)  
24 July 1964, Limited Distribution

1. The enclosed report on the subject from the Committee on Overhead Reconnaissance (COMOR), in response to USIB action in Executive Session at its 22 July meeting as recorded in the reference, is transmitted herewith for consideration by the Board of the COMOR Conclusions and Recommendations contained in Tab B hereto, pages 6 through 10.
2. The National Photographic Interpretation Center (NPIC) study attached as Tab C hereto is being distributed in a limited number of copies primarily to USIB Members and Observers.
3. The enclosed COMOR report is scheduled for consideration by the USIB at its meeting on 29 July 1964.

*James S. Lay, Jr.*  
JAMES S. LAY, JR.  
Executive Secretary

Attachment with

Tab A

Tab B

Tab C (TCS-7473-64)

HANDLE VIA BYEMAN-TALENT/KEYHOLE  
COMINT CONTROL SYSTEMS JOINTLY

LANYARD  
CORONA/GAMBIT  
~~TOP SECRET~~

GROUP I  
Excluded from automatic  
downgrading and  
declassification

~~TOP SECRET~~

Handle via BYEMAN,  
TALENT-KEYHOLE CORONA/GAMBIT/LANYARD  
Controls

Attachment  
USIB-D-41.13/11  
(COMOR-D-13/16)  
27 July 1964

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UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT: Long-Range Requirements for Satellite  
Photographic Collection

REFERENCE: USIB-D-41.13/10 (COMOR-D-13/14)

1. This report is in response to the assignment by the Board at its Executive Session, meeting of 22 July, and seeks to respond directly to the Chairman's directive to COMOR set forth as an attachment to the referenced document. For the convenience of the Board in studying this report, that attachment is set forth as Tab A.

2. In pursuing its assignment, COMOR took into account its knowledge of the nature and mode of operation of the present KH-4 and KH-7 systems and the results obtained therefrom, comments of the NRO on the prospects of improvements to these systems, a briefing by CIA on a proposal for a search system with area coverage approximating KH-4 and resolution approximating KH-7, and a briefing by the NRO on

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Handle via BYEMAN,  
CORONA/GAMBIT/LANYARD TALENT-KEYHOLE  
Controls

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Handle via BYEMAN,  
TALENT-KEYHOLE CORONA/GAMBIT/LANYARD  
Controls

Attachment  
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G-3 and LANYARD. It had available, of course, the papers on the same subject submitted to the Board in April 1963 but on which there had not been a conclusion by the Board. NRO and the NPIC representatives participated fully in the discussions.

3. In direct response to the Board's assignment, the COMOR specified to NPIC the essential elements of information on major problems with a request that the NPIC, using the resources of all of the agencies participating in NPIC, advise on the extent to which the EEI could be met by photography with a capability of resolution to permit interpretation objects ten feet, three feet, [REDACTED] The results of this study are submitted at Tab C.

4. The conclusions which COMOR has reached as a result of its examination of the problems presented in our assignment are expressed in Tab B.

*James Q. Reber*  
James Q. Reber,  
Chairman

Committee on Overhead Reconnaissance

Attachments (3)

Tab A  
Tab B  
Tab C

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CORONA/GAMBIT/LANYARD TALENT-KEYHOLE  
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Handle via BYEMAN,  
TALENT-KEYHOLE,      CORONA/GAMBIT/LANYARD  
Controls

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Tab A

Directive to COMOR Regarding Long-Term Intelligence

Requirements for Satellite Photographic Reconnaissance

1. COMOR is directed to provide for the Board's consideration at its 29 July meeting recommendations for future intelligence requirements for satellite photographic reconnaissance from the standpoint of required input to the intelligence inventory. In preparing its report, COMOR should take into account the experience achieved thus far through the use of the KH-7 and KH-4 configurations and an analysis by NPIC on the extent to which specified Essential Elements of Information can be met by improved resolution and quality of photography.

2. The COMOR deliberations and report should be concerned with the needs from an intelligence viewpoint of improved resolution in the GAMBIT spotting system, the advantages and disadvantages of a very much higher resolution in the spotting system even though the area coverage is reduced, the ability of the present and contemplated spotting systems to cover targets of interest with due consideration to accuracy of pointing and the ability to cover successive targets because of time involved in the roll and pointing of the camera.

3. Recommendations will be expected on the advantages of improvements to the present GAMBIT system considered feasible with further research and development and also advantages to be gained from further improvement in the existing CORONA system.

4. The importance of the development of a search system with area coverage approximating the CORONA (KH-4) but with resolution equaling the GAMBIT (KH-7) should be examined from the standpoint of the value of the input of Essential Elements of Information to the intelligence inventory resulting from such a development.

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Tab A Contd

5. Finally, consideration should be given to the need for an interim search system built around the LANYARD cameras which might produce resolution considerably better than the KH-4 but not as good as the KH-7 and which could be available long in advance of any of the proposed systems.

6. Although there is no indication that budget restrictions or technical or physical resources would necessarily foreclose concurrent action in several of the areas mentioned above, USIB would be interested in COMOR's views on the relative importance and hence the priorities which might be attached to the several courses of action indicated.

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CORONA/GAMBIT/LANYARD TALENT-KEYHOLE  
Controls

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TALENT-KEYHOLE   CORONA/GAMBIT/LANYARD  
Controls

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Tab B

**CONCLUSIONS**

1. Intelligence requirements for search and surveillance necessitate a satellite photographic capability or capabilities for complete area coverage of the Sino-Soviet Bloc with a resolution which will permit interpretation of objects between three and four feet on a side.
2. There is also a requirement for photography which will permit interpretation of details on the order of [REDACTED] on a side on a number of targets.
3. There are many advantages and we believe no disadvantages from the point of view of photo interpretation or analytic usefulness in a satellite photographic system which would have continuous stereoscopic ground coverage equivalent to KH-4 and resolution equivalent to KH-7.

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Tab B Contd

4. There would also be advantages in a system with the capability to permit interpretation of details [REDACTED] on a side even with a swath width approximately half that of KH-7. Such resolution would provide valuable increments to our intelligence inventory. Although the number of targets for which such a system would be required in terms of vital importance is relatively small, the ability of such a system to also provide additional information on less critical targets could be an over-all important bonus.

5. Improvements are perhaps possible in KH-4 and KH-7 resolution--at best a reduction in the KH-4 from ten to nine feet and in the KH-7 from three to two feet. Improvement should be made in these systems, as well as in their reliability, without impeding development of the systems discussed in paragraph 7.

6. Because of its relatively narrow swath width (about 50 miles) and non-contiguous stereo coverage, the LANYARD System

7.

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CORONA/GAMBIT/LANYARD

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Tab B Contd

(KH-6), of which there are five packages available, could not be usefully employed as a substitute for KH-4; nor, since it has an estimated five-foot on a side resolution, could it be employed as a substitute for KH-7.

COMOR has concluded that the KH-7 should be used in lieu of the KH-4 as a crisis satellite. However, before submitting its recommendation to the Board, COMOR has requested comments from the NRO and the NIC. In view of the fact that we are advised that the five LANYARD packages can be reinstated and placed on standby as a crisis satellite without interference with the developments recommended in paragraph 7 below, we recommend the consideration of LANYARD for this purpose.

In that case, there might eventually be on standby for a crisis both a KH-7 and a LANYARD, which in certain circumstances would be extremely desirable.

7. Recommendations on New Systems:

- a. That developmental work should proceed urgently toward the achievement of

CORONA/GAMBIT/LANYARD

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TALENT-KEYHOLE  
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**TALENT-KEYHOLE CORONA/GAMBIT/LANYARD**  
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Tab B Contd

- (1) A single capability for search  
and surveillance with a continuous stereo-  
scopic ground coverage equivalent to KH-4  
and a resolution equivalent to KH-7; and
- (2) A capability which will permit  
interpretation of details on the order [REDACTED]  
[REDACTED] on a side even with a swath  
width approximately half that of KH-7.

b. That, if a priority of development must be  
established, the second should have first priority. (COMOR  
believes that in view of the existence today of a search and  
surveillance capability in the form of KH-4 and KH-7, the  
most urgent need is to develop a collection capability to  
fill the coverage gap in the high-resolution area.  
[REDACTED]

---

\*The CIA recommends that the first capability should have priority over  
the second. For the following reasons: a., A high-resolution system

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Controls

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Tab B Contd

(three feet at nadir) which gives continuous, stereoptic coverage of a strip some 300 miles wide would appear to have substantially greater advantages from an over-all intelligence point of view over a very high resolution system [redacted] which CIA believes is seriously limited by the very narrow swath width and by the difficulty of achieving the necessary, extremely high pointing accuracy; and

b., Based on CIA's analysis of several major weapons systems and nuclear materials installations, photographs with a ground resolution of about three feet are adequate to determine existence and identity, and to provide in most cases the data upon which capacity/capability can be estimated.

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Controls

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TALENT-KEYHOLE CORONA/GAMBIT/LANYARD  
Controls

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Tab C

Ground Resolution Comparison by NPIC  
(see attached)

1. The Board requested that COMOR's study take into account an analysis by NPIC on the extent to which the specified Essential Elements of Information (EEI) can be met by improved resolution and quality of photography. COMOR accordingly arranged for a CIA study on this question to be subjected to amplification of the EEIs by DIA and evaluation of target data at three different ground resolutions by joint teams of DIA and CIA photo interpreters. Within the limits of the time permitted, such amplification of the EEI was made and the above task force at NPIC sought to complete its evaluation. Pages 1 through 9 have been fully coordinated insofar as these evaluations are concerned. Pages 10 through 17 have not for lack of time been fully coordinated.

2. The Director, NPIC has given as his opinion that differences between the CIA study and the joint evaluation are probably not significant. He observes that for the most part, they are differences in precise interpretation or small variances in probability. This judgment was presumably based on pages 1 through 9.

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\*CORONA/GAMBIT/LANYARD Handle via BYEMAN,  
TALENT-KEYHOLE  
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TALENT-KEYHOLE CORONA/GAMBIT/LANYARD  
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Tab C (Contd)

3. It was the consensus of COMOR that the column headed "Alternative, Possibly Better, Sources," should be omitted at this time. It was agreed that this column as presented is incomplete, particularly as to SIGINT contributions, and would nevertheless be thoroughly meaningful only if it contained alternative sources which could be weighed against a "yes" or "partially" in the [redacted] column. It would also only be important should the answers in the ten-foot column and three-foot column have been "no" or "partially." It would be necessary to specify that such obvious alternatives as obtaining the article in question, obtaining an operations manual, or suborning a technical expert involved in the design of the article must be ruled out. Furthermore, to permit a proper weighting of the need for such detailed photography, the entry in the "Alternative Source" column should be specific as to the type and value of the various elements of information which could be obtained on the one hand by high-resolution photography and on the other by the alternative source.

CORONA/GAMBIT/LANYARD

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TALENT-KEYHOLE  
Controls.

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HANDLER VIA TALET-KEVHOLE-  
COMINT CONTROL SYSTEMS JOINTLY

TCS-7173-61

27 July 1961

Copy #35

Legend

- You      - Task can be accomplished  
partially - Task partially accomplished  
          - Some possibility task can be accomplished  
P       - Task impossible  
No      - Elements of information added by NMAP-1

General Indication of Intelligence Information Obtainable Relative to Ground Resolution of Camera Systems

<u>Information Sought</u>	<u>101</u>	<u>31</u>	<u>Alternative, possibly better sources</u>	<u>Remarks</u>
A. <u>IOM-LRRN/IOM System</u>				
* Identify launch complex	yes	yes		
* Area search	yes	yes		
* Identify launch & support facility	yes	yes		
Easing				
Hard or soft launch	yes	?		
If soft - how missile prepared and erected for launch	?	?		
If hard - determination of hardness based on:				
- Thickness of silo door				
- Thickness of walls				
- Extent "rattle space"				

101 SHOT

HANDLER VIA TALET-KEVHOLE-  
COMINT CONTROL SYSTEMS JOINTLY

BAUDUIN VIA "ALEXANDER KENYON"  
COMINT CONTROL SYSTEMS JOINTLY 3

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Information Sought

10'

Alternative, possibly  
better sources

Remarks

Suspension system

partially

Depends on timing  
and angle of photo-  
graphy

Type launch (fly out or  
lift out)

yes

General stages of  
construction (early,  
mid, late) identifi-  
able on 10'

\*Periodic phases of site  
construction

partially

yes

\* Identification of ambiguous  
support facilities (i.e.,  
missile space)

partially

\* Identification of weapons  
system employed

partially

\* Refire capability- Quantity  
of support facilities and  
additional missile storage  
on or near launch sites

partially

\* Location of nuclear warhead  
storage

yes

yes

Complete answer  
requires other  
information

TOP SECRET

TOP SECRET

TRANSMISSION VIA INERTIAL REFLEXIVE  
COMPUTER CONTROL SYSTEMS JOINTLY

"CR-7473-61

Information sought  
10<sup>1</sup>  
[REDACTED]  
Alternative possibly  
better sources  
Remarks

Technical Characteristics of Missile

Liquid or solid fuel

If liquid, types of propellant

partially      partially      partially  
no                  ?

Number of engines

Guidance, whether all-inertial  
or radio-inertial, how functions

partially      partially      partially  
no                  ?

Dimensions of missile:

- Length  
- Diameter at base  
- Number of stages

partially      yes  
?                    ?

Diameter at base

partially      If defined on  
missile

Sizing of nose cone (RV)

HANDLES VIA "TALENT-KEXHOLE"  
COMMIT CONTROL SYSTEMS JOINTLY

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HANDS VIA TACOMA-KENIOLM.  
COMINT CONTROL SYSTEMS JOINTLY

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MS-7173-61

Information Sought      10'      3'      [REDACTED]

Alternative possibility  
Better sources

Remarks

3. ABM/SAM Systems

Locate/Identify ABM facility/  
complex \*and security measures

yes

Support areas & facilities & equipment ABM & SAM

partially      yes

Electronics

Frequency of radar

no

?

Dimensions of associated  
radars and other sensors

?

yes

Dimensions of wave guide

no

?

Interrelationships between  
element facilities of ABM  
complex \*testing areas  
and opnl. sites

yes

yes

partially

partially

Power input to major radars  
partially      partially      partially  
Externally supplied  
power to site only

Weapons

- Launcher mechanism/mode of  
launch

no

partially

yes

Mode of 1<sup>st</sup> launch par-  
tially on .0'

Characteristics ABM/SAM

?

partial

?

yes

HANDS VIA WAGNET-KEMHOLE-  
COMPUT CONTROL SYSTEMS JOHNSON

NUC-7473-61

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Information sought      3' [REDACTED]

Alternative, possibly  
better sources      Remarks

Characteristics AND (continued)

Fuel      ?      ?      ?      ?      ?

Type Guidance      no      partially      partially

Missile Ranges (Facilities)

\* Layout and Transportation      yes      yes      yes  
\* Support Buildings      yes      yes      yes  
\* Pad Configuration      yes      yes      yes  
\* Missile Configuration      no      partially      yes

This will not permit detailed S&T analysis

Launch Systems      partially      yes      yes  
Type Guidance      no      no      ?

\* Electronics Instrumentation Layout      yes      yes      yes  
\* Electronic Instrumentation Components      no      no      partially

Uncertain meaning

HANDLE VIA TALENT-KEYWORD

HANSON VTA TALENT-KENHOLE-  
MISSILE CONTROL SYSTEMS JOINTAX

TCS-7W/3-61

TCU CLOUD

Information Sought	10'	3'	Alternative, possibly bottom source	Remarks
Submarines	yes	yes	yes	Under optimum conditions
- Sub base location	yes	yes	COMINT	
- Sub base function	?	?	partially	yes
- Sub deployment dispersed	?	?	?	yes
- Sub type identification	?	?	?	yes
Length	?	?	?	yes
Width	?	?	?	yes
Dimension of sail	no	?	?	yes
* Missile Dimensions (hatch)	no	partially	yes	Low altitude serial photography
* Hull Construction	no	?	yes	Ground photography
* Communications Facilities	no	no	yes	Only under optimum conditions at [REDACTED]
* Naval Missile Support Facilities	yes	?	?	
* Location	yes	?	?	
* Function (i.e., ballistic or cruise missile support)	no	yes	yes	Pass at 3' if mis- sile or handling equip. observed
				HANDLE VIA TALENT-KEYHOLE.

HANDLES VIA TALENT-KEYWORD  
COMMIT COMMITTEE SYSTEMS JOINTLY

TCS-71473-51

Information Set #8

10<sup>1</sup>

31

Alternative, possibly  
better sources Remarks

D. Nuclear Energy Production

- Identification of major production facility yes yes yes
- Production layout partially yes yes yes
- Overall power consumption partially yes yes yes
- Power consumption by section no no ?
- Chemical processing facilities ? partially yes
- Hot water effluence partially partially partially
- Metal and similar production partially yes yes
- Number of reactors partially partially partially
- Production rate of weapons ? ?
- Stockpile procedures partially partially partially
- Storage capacity partially partially partially

Nuclear Testing

- Test site identification partially

HANDLES VIA TALENT-KEYWORD

BAUGLES VIA VALDOSTA-KENYA  
COMTEA CONTRACT SYSTEMS JOINT EX

Information Sought

10. 31.

Alternative, possibly  
better sources

Activity levels

Weapon yields

Test objectives

yes

yes

partially

partially

partially

partially

Remarks

HANDLE VIA TAYLOR-KEMBLE

TOP SECRET

TOP SECRET

RESULTS VIA TALENT-KENONE:

OPTIONAL COLOR/BLACK & WHITE

YCS:7473-6A

Implementation sought: 10' [REDACTED]

Other Systems: 3' [REDACTED]

1. Aircraft

Engines

- Location/presence of aircraft yes
- Fueling capacity yes

yes.  
If large storage tanks above ground

Identification of Aircraft

- By Class (Fighter/Bomber)
- By Type (F/A-18C/Hornet)
- By model

Characteristics of Aircraft

- Range based on size
- Speed based on engine sizing and design

yes  
?  
no  
partially

no  
?

no  
?

Give optimum conditions at [REDACTED]

HAND X VIA TALENT-KENONE.

REF ID: A6525 VIA WRIGHT-KENNEDY  
SOUTHERN CALIFORNIA BUSINESS JOURNAL

TRON-7473-G6

TON STEELE

Information sought

10<sup>1</sup>

Alternative

Answers

\* Weapon Storage

\* Nuclear - Location

Capacity

Hardness

\* ASI - Location

Number and Type

\* AM - Location

Capacity

Type

\* Conventional - Location

Capacity

\* Maintenance Support Facilities

Location

Function & Capacity

partially

yes

\* Communication and Navigation Facilities partially

yes

Major Facilities only

HARDIN VIA WALTER-KENOLIN

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COMINT CONTROL SYSTEMS JOINTLY

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Information Sought

10'

3'

Alternative, possibly  
better sources

Remarks

v. Electronic and Communications

Radar and Commo Locations

yes

Radar Design Determination

?

Commo type identification

?

Mobility Status

yes

G. Missile Production

\* Identification of Production Facility

partially

partially

\* Production Layout

yes

partially

partially

\* Product Identification

?

\* Assoc. Test Facilities

yes

partially

partially

\* Testing Activity

yes

partially

partially

\* Research and Development Facilities

partially

partially

partially

\* Testing Activity

yes

partially

partially

Can be ident., but product must be seen to identify as missile production

Depends on size and type of missile

Large vert. stands visible at 10'  
Blast marks visible at 10'

HANDLE VIA TALENT-KC/YHOLE-

TOP SECRET

TOP SECRET

Information Sought	101			31		
	Alternative		Remarks			
*Identification of Production Facility	Yes					
*Production Layout	Yes					
*Product Identification	Yes					
*Testing Facilities (Static)	Yes					
*Flight Test Facilities (ident)	Yes					
*Test Vehicle	Yes					
*Research & Development Facilities	?	?	?	?	?	
*Test Cells (Engines)	Yes					
*Test Cells (environment)	?	?	?	?	?	
I. *EW Production						
*Production Facilities	No	No	No	No	No	Other collateral
*Storage	No	No	?	?	?	Partially Other collateral
*Test Ranges	?	!	!	!	!	Partially Partially
J. *EW Production						
*Production	No	No	No	No	No	Other collateral Assoc features may allow "suspect" ident.
*Storage	No	No	No	No	No	
*Test Ranges	?	?	?	?	?	Partially Partially
	12	12	12	12	12	HANDLE VIA TAIERIN KEYHOLE COMMIT CONTRACT, SCHEDULED, FORTRESS

ANALYSIS VIA "ARMED-NEUTRON"  
VIA X-RAY CRITICAL SOURCES JOINTLY

Information sought

Ground Forces

Alternative

Remarks

10'

31'

\*Location of Installations

\*Measurment of Edges

\*Location of Training Areas

\*Measurment of Firing Ranges

Type of Major Equipment

O/B Identification of Unit by

Type and Echelon

Level of Activity in Installations

Level of Activity in Training Areas

Locations of Reserves & Support

Major Material Depots

\*Identification of Installation

Cility Layout

\*Product Identification

No Yes ? Yes

Partially Partially Yes

No Yes ? Yes

Partially Partially Yes

No Yes ? Yes

Partially Partially Yes

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HANDLE VIA "ARMED-NEUTRON"

TOP SECRET

PATRIOT WAAGEN-KRUEGER  
DATA COMMUNICATION SYSTEMS JOINTLY

108-7173-GI

<u>Information Sought</u>	<u>101</u>	<u>31</u>	<u>Alternative</u>	<u>Remarks</u>
M. *Submarines and Other Naval Ship Production	?	?	?	?
*Identification of Prod. Facility	Yes	Yes	Yes	Yes
*Production Layout	Yes	Yes	Yes	Yes
*Production Identification	Yes	Yes	Yes	Yes
*Propulsion Equip. Prod.	?	?	?	?
*Product Identification	?	?	?	?
H. *Ground & Naval Armament Prod.	?	?	?	Partially
*Identification of Prod. Facility	?	?	?	Yes
*Production Layout	?	?	?	No
*Product Identification	?	?	?	?
*Research & Development Facilities	Yes	Yes	Yes	Yes
*Testing Activity	Partially	Partially	Partially	Yes

1. VIAES VIA TADEU-KENIOS-  
2. GOMOS SUCESOS JORNAIX

TCS-NY3-G1

Information sought:

Alternative:

Remarks:

\*Stocks

\*Dams

\*Craft

\*Harves

\*Storage (Open & Covered)

\*FOL

\*Overpasses

\*Channels & Channels

\*Mechanical Handling Facilities

\*Clearance (Rail & Road)

\*Ship Repair Facilities

Partially Yes

Yes

Partially Yes

Yes

Partially Yes

Partially Yes

Partially Yes

Partially Partially Yes

No Yes

Yes

Partially Yes

WATER VIA LAND-SEA LINE  
COMMODOR SYSTEMS JOURNAL

RCIS 7173-64

Information Sought

R. \*Ports

\*Wharves

\*Warehouses

Yes

Partially

Yes

\*TO/L Storage Facilities

Partially

Yes

\*Ship Repair Facilities

Partially

Yes

\*Mechanical Handling Facilities

No

Yes

\*Rail & Road Clearance from Wharves

Partially

Yes

\*Harbor Craft

Partially

Yes

\*Caterers and Jetties

Yes

Q. \*Railways

\*Bridges

Partially

Yes

\*Yards

Partially

Yes

\*Shops

Partially

Yes

\*Passing Track

No

Yes

\*Trackage

Partially

Yes

\*Motive Power

No

Yes

\*Freight Carts

No

Yes

\*Passenger Carts

No

Yes

(\*) \*Tunnels

Partial

Yes

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R. Highway 3

Infrastructure sought

Relief

Alternative

Relief

roadway surface (including shoulders)

No

Yes

drainage facilities (ditches, culverts,  
etc.)

No

Partial

Yes

\*bridges

Partially

Yes

Yes

\*ditches

Yes

Partially

Yes

\*ferry

Partially

Yes

Yes

\*tunnels

Partially

Yes

Yes

structural dimensions  
or capacity and  
vulnerability

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