

JOINT PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

[REDACTED]

COMMUNICATION FACILITIES AT TYURA TAM, U S S R



ARMY



CIA



NAVY

Declass Review by NIMA / DoD

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16 SEPTEMBER 1957

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COMMUNICATION INSTALLATIONS AT TYURA TAM, USSR

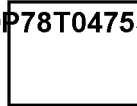
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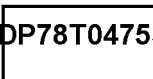
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I. Introduction

A preliminary photographic analysis of two communication installations associated with the Tyura Tam Missile Test Facility is presented in this memorandum. It has been prepared at HTAUTOMAT by CIA, Army, and Navy, under Army chairmanship, and is intended to supplement the general description presented in ODES 4035 and 4058. Sufficient detail is provided to permit an interim evaluation by various members of the intelligence community. A more detailed report on the overall installation is being prepared, also on a joint basis, and will be published at the earliest possible date.

II. Summary

Two large fenced communication installations are component parts of the Tyura Tam Missile Test Facility. Installation A is located at $45^{\circ}50'N - 63^{\circ}18'E$, approximately five nautical miles (nm) south of the launch area. It covers approximately 180 acres, and is still under construction. Installation B is located at $45^{\circ}38'N - 63^{\circ}18'E$, approximately 19 nm south of the launch area. It covers approximately 250 acres, and appears to be almost complete.

III. Installation A

A. Structures (annotated on Figure 1)

- a. One two-story, gable-roofed building with dormers, measuring 85 by 55 feet; probably transmitter/receiver building.
- b. Two round earth mounds 30 feet in diameter; probably buried tanks.
- c. One one-story, gable-roofed building with dormers, measuring 150 by 50 feet.

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d. One one-story, T-shaped gable-roofed building, with the two wings

measuring [redacted]

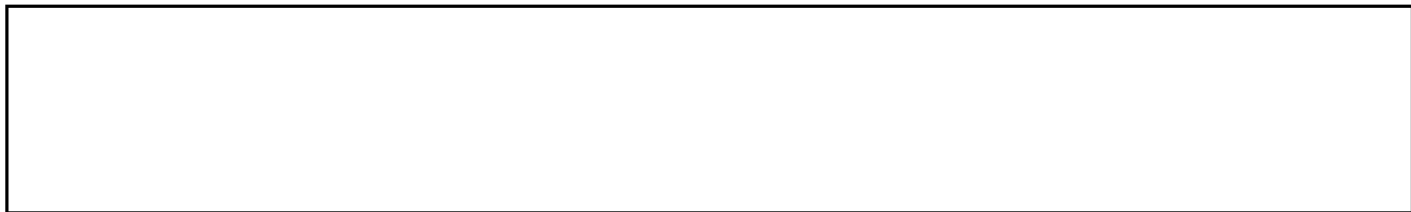
e. One one-story gable-roofed building, measuring 20 by 20 feet.

f. One one-story hip-roofed building, measuring [redacted] with a 15 by 15 foot wing.

B. Antennas (annotated on Figure 1)

Installation A contains three rhombic arrays as follows:

	<u>Array No. 1</u>	<u>Array No. 2</u>	<u>Array No. 3</u>
Length of Major Axis	640'	750'	640'



Height of End Masts	85'	85'	85'
No. Masts at Each End	2	2	2
Separation Between End Masts	75'	75'	75'
Height Side Masts	95'	120'	100'

A few other masts are noted within the installation. One group of approximately four masts, 130 feet high, is arranged in a row. The masts appear to be about 225 feet apart. A perpendicular to this line of masts has azimuths of [redacted]. A second group of about six masts 85 feet high, is arranged in another row, and are about the same distance apart. A perpendicular to a line formed by these masts has azimuths of [redacted].

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IV. Installation B

A. Buildings (annotated on Figure 2)

a. One one-story, deck-roofed building with gable ends, measuring

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b. One one-story, gable-roofed building, feet.

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B. Antennas (annotated on Figure 2)

Installation B contains 10 rhombic antenna arrays and four arrays, each consisting of 16 masts in a 5-3-3-5 pattern. These arrays are described in Table 1 on the following page.

There are at least thirteen masts within installation B that are not reflected in Table 1. These include two rows of three masts high, and one row of four masts.

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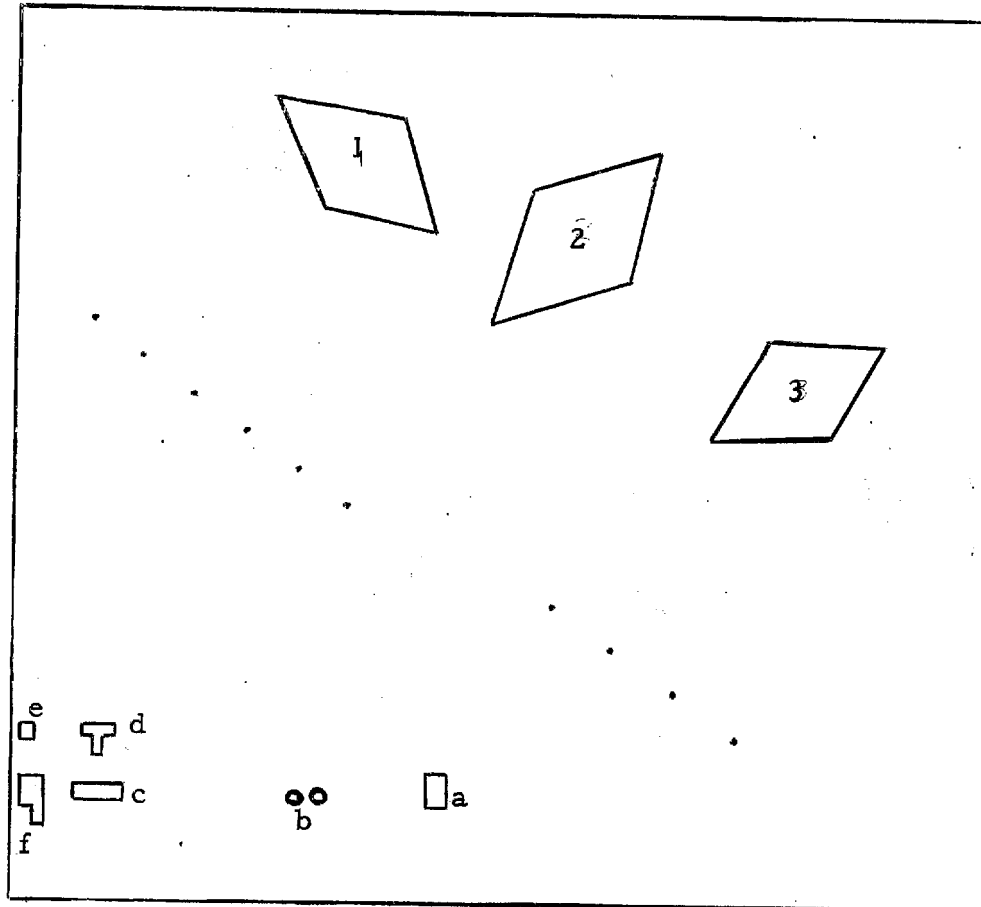
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Figure 1. Installation A

Rhombic Array No.

1.

2.

3.



- a. Two-story, gable-roofed, probable transmitter/receiver building.
- b. Two earth mounds.
- c. One-story, gable-roofed building with dormers.
- d. One-story, T-shaped, gable-roofed building.
- e. One-story, gable-roofed building.
- f. One-story, hip-roofed building with wing.

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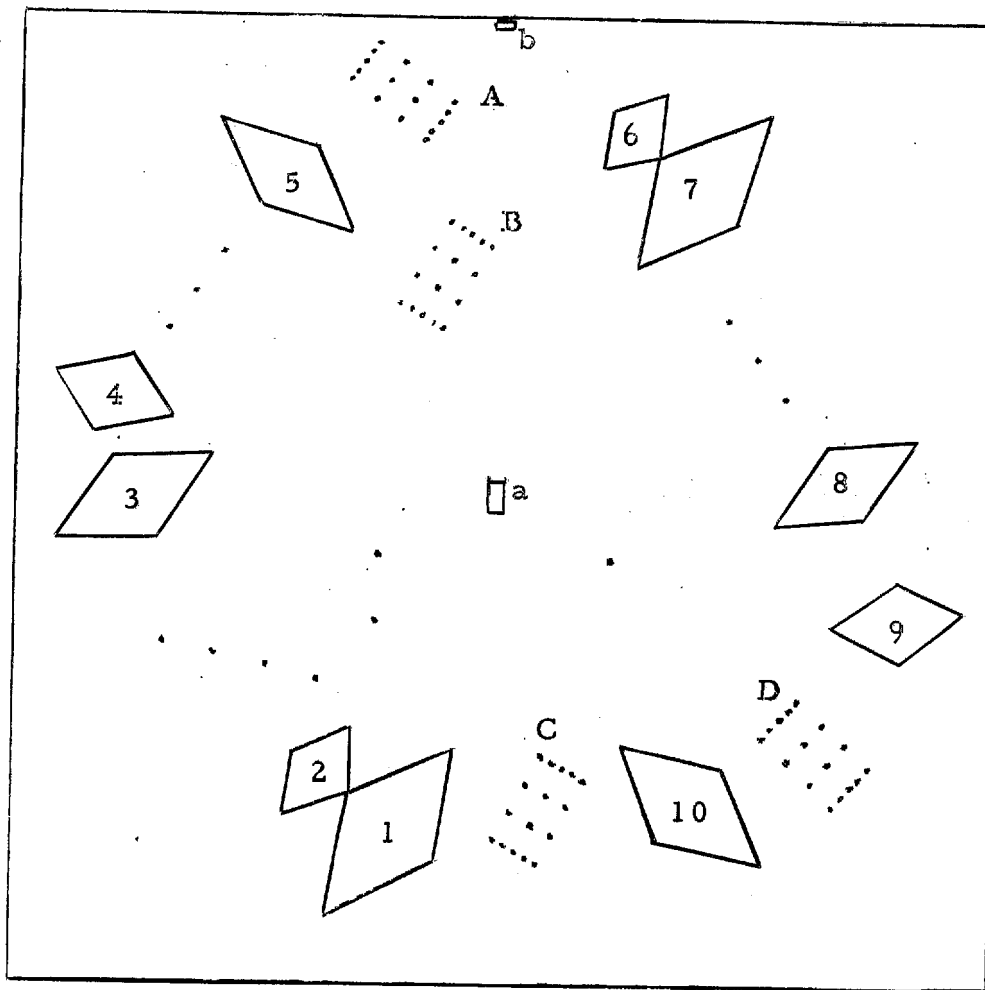


Figure 2. Installation B

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Rhombic Array No.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



- a. One-story, deck-roofed (with gable ends) transmitter/receiver building.
- b. One-story, gable-roofed building.

(For orientation of arrays A, B, C, and D see Table 1, page 6)

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