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5 May 1970

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MEMORANDUM FOR: [redacted] CIA-OSR-SF/D

SUBJECT : Analysis of Selected Soviet Air Warning Radar Facilities

REFERENCES : [redacted]
(NPIC Project 250519AD)

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1. This memorandum, one of a series in response to the referenced requirement, presents details of four Soviet air warning radar facilities. Each of the facilities described below has been analyzed on all available high-resolution KEYHOLE photography. Annotated photography and a chronological table indicating the number and type of radars observed at individual facilities on specific missions are forwarded as attachments. The dimensions given in this memorandum are accurate to within [redacted] plus 1 percent) with a 95 percent confidence level.

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2. The selected air warning radar facilities included in this memorandum are:

- a. Velikaya Kema TALL KING Air Warning Radar Facility
45-27-00N 137-11-50E, [redacted]

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The Velikaya Kema TALL KING Air Warning Radar Facility (Attachments 1 and 1-A), located 1.2 nautical miles (nm) southwest of Velikaya Kema, USSR, consists of one TALL KING radar, one THIN SKIN radar, one BAR LOCK radar, one ROCK CAKE/STONE CAKE radar, one possible FLAT FACE radar, four FORK REST-type very high frequency (VHF) antennas, 17 vans or trucks, six barracks, seven revetments, and one earth-covered building. The six barracks have a total floorspace of [redacted]

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- b. Tiksi TALL KING Air Defense Headquarters Radar Facility
71-44-00N 128-47-05E, [redacted]

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The Tiksi TALL KING Air Defense Headquarters Radar Facility (Attachments 2 and 2-A) consists of two radar operations areas. The first area, 3.5 nm northwest of Tiksi Airfield West [redacted] contains one TALL KING radar and one SIDE NET radar. The second area is 1 nm west of the airfield and contains one TALL KING radar, three BAR LOCK radars, one SIDE NET radar, and one FLAT FACE radar. The airfield probably provides housing for this facility.

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NIMA/DOD

GROUP 1: EXCLUDED FROM
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c. Armavir TALL KING Air Warning Radar Facility
44-57-30N 041-06-10E, [Redacted]

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The Armavir TALL KING Air Warning Radar Facility (Attachments 3 and 3-A), located 2 nm south of Armavir, USSR, consists of one TALL KING radar, one BAR LOCK radar, one ROCK CAKE/STONE CAKE radar, one SIDE NET radar, one unoccupied radar mound, two FORK REST-type VHF antennas, one control building, one barracks, 17 revetments, and 14 vans or trucks. The barracks has a total floorspace of [Redacted] feet).

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d. Urup TALL KING Air Warning Radar Facility
46-12-20N 150-31-10E, [Redacted]

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The Urup TALL KING Air Warning Radar Facility (Attachments 4 and 4-A), adjacent to Urup Airfield [Redacted], consists of one TALL KING radar and one generator building.

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The support area for the facility is 1.5 nm west of the TALL KING radar and contains 20 support buildings and three barracks. The barracks have a total floorspace of [Redacted]

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3. This is a partial response to the requirement. Any further inquiries should be directed to [Redacted] NPIC/IEG/SD/EB, IDS Code 143,

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[Redacted]

[Redacted]

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Chief, Imagery Exploitation Group
NPIC

Attachments:

- 1 Velikaya Kema TALL KING Air Warning Radar Facility
- 1-A Radars Observed at Velikaya Kema TALL KING Air Warning Radar Facility
- 2 Tiksi TALL KING Air Defense Headquarters Radar Facility
- 2-A Radars Observed at Tiksi TALL KING Air Defense Headquarters Radar Facility
- 3 Armavir TALL KING Air Warning Radar Facility
- 3-A Radars Observed at Armavir TALL KING Air Warning Radar Facility
- 4 Urup TALL KING Air Warning Radar Facility
- 4-A Radars Observed at Urup TALL KING Air Warning Radar Facility

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9 - CIA/DDI/IRS/[Redacted]

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