

30 July 1970

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MEMORANDUM FOR: Chief, P04/SPO, NSA

ATTENTION : [redacted]

SUBJECT : New SAM Communications

REFERENCE : NSA/SPO/R161/70
(NPIC Project 250794)

1. This memorandum is in response to your requirement dated 11 June 1970 requesting a 3-nm-radius search around 53 defensive missile and electronics sites for R-400 microwave communications.

2. The following three sites contained R-400 microwave communications:

a) HAAPSALU SAM SITE A24-3 [redacted] had a single dish R-400 microwave tower [redacted] NW of the guidance area (attachment 1). A control building was cable connected to the guidance area.

Mast Height - [redacted]
Dish Diameter [redacted]
Dish Azimuth - [redacted]

b) TALLINN SAM SITE C27-3 [redacted] had a single dish R-400 microwave tower [redacted] SW of the guidance area (attachment 2). One van truck was parked on a hardstand adjacent to the mast. A cable scar led north from the hardstand, probably to the guidance area.

Mast Height - [redacted]
Dish Diameter [redacted]
Dish Azimuth - 345°

c) TAPA AIR DEFENSE HQ RADAR FACILITY [redacted] contained a probable R-400 microwave tower within the facility (attachment 3). Mast height was [redacted] however, the assemblage on top of the mast could not be confirmed as R-400.

3. Areas of approximately 3 nm around the following installations were searched for microwave communications on high-resolution photography with negative results:

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<u>NAME</u>	<u>DATE OF PHOTOGRAPHY</u>
Haapsalu SAM Site A26-2	
Haapsalu SAM Site C21-2	
Kuressaare SAM Complex B32-5	
Kuressaare SAM Site A32-2	
Kuressaare SAM Site B07-2	
Kuressaare SAM Site B32-3	
Kuressaare SAM Support Facility	
Parnu SAM Site A33-3	
Parnu TALL KING Air Warning Radar Facility	
Rakvere MRBM Complex SAM Site B35-2	
Saaremaa Air Warning Radar Facility	
Tallinn SAM Complex B28-5	
Tallinn SAM Site A02-2	
Tallinn SAM Site A22-3	
Tallinn SAM Site A30-2	
Tallinn SAM Site A30-3	
Tallinn SAM Site B27-2	
Tallinn SAM Site C09-2	
Tallinn SAM Site D08-2	
Tallinn ADZ Hq	
Tallinn SAM Support Facility	
Tallinn/Lasnamae TK-AW Radar Fac Search	
Nomme IIF Communications Facility	
Saku IIF Communications Facility West	
Tapa SAM Complex A32-5	
Tapa SAM Site A21-2	
Tapa SAM Support Facility	
Leningrad/Tapa TALL KING-AW Radar Facility	
Tapa VHF Communications Facility 2	
Tapa VHF Communications Facility 1	
Tapa IIF Communications Facility N	

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Nineteen installations were not covered by high-resolution photography.



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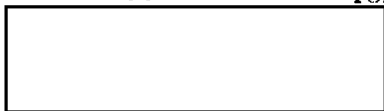
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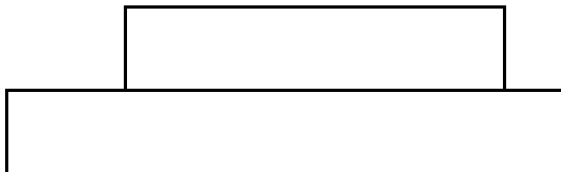
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5. Questions concerning this project may be directed to the imagery analyst,  This project is considered to be complete.

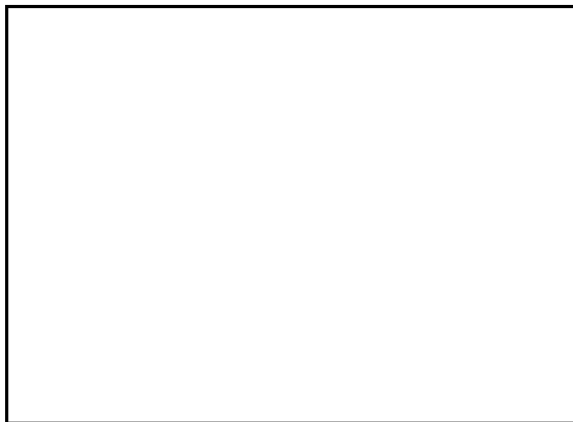
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11 August 1970

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MEMORANDUM FOR: Chief, P04/SPO, NSA

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ATTENTION [redacted]

SUBJECT : Computed Geographic Coordinates of Selected SA-5 Associated Air Warning Radar Facilities, and General Launch Orientations of Selected SA-5 Complexes

REFERENCE : NSA/SOC/R-06-71 (NPIC Project 250834)

1. The information concerning exact geographic coordinates of selected SA-5 air warning radar facilities is provided in attachment 1. Coordinates were requested for air warning radar facilities at 18 deployed SA-5 launch complexes, two SA-5 training facilities (at Leningrad), and the Gorkiy-Sormovo Assembly and Test Area. An air warning facility is associated with only seven of the requested 18 complexes, and with only one of the Leningrad SA-5 training facilities. No AW facility is associated with the Gorkiy-Sormovo Assembly and Test Area.

2. The information concerning general launch orientations is provided in attachment 2. Orientations were requested for 20 SA-5 launch complexes, three SA-5 training facilities, the Gorkiy-Sormovo Assembly and Test Area, and the Kovytkino SAM Depot. Orientations are provided only for the 20 SA-5 launch complexes, as they are the only requested installations which are considered to have a launching capability. Each of the three SA-5 training facilities has six or less launch positions and only one SQUARE PAIR radar, arranged in a training configuration, rather than a deployed launch site configuration. The Gorkiy-Sormovo Assembly and Test Area has no launch capability, as it contains only SA-5 and SA-2 tracking and guidance radars. The Kovytkino SAM Depot contains SA-5 SQUARE PAIR radars and launchers but functions as an equipment checkout facility. SQUARE PAIR radar azimuths at Kovytkino were provided to NSA under a previous NPIC memorandum, [redacted] 12 March 1970.

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SUBJECT: Computed Geographic Coordinates of Selected SA-5 Associated Air Warning Radar Facilities, and General Launch Orientations of Selected SA-5 Complexes

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[Redacted]

3. For further information, please contact

[Redacted]

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[Redacted]

Chief, Imagery Exploitation Group
NPIC

Attachments:
2 tables

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Attachment 1 to

[Redacted]

AIR WARNING RADAR FACILITY COORDINATES

Complex	<u>AW Lat</u>	<u>AW Long</u>	<u>(Accuracy (±Ft))</u>
1. Brest A03-5	52-09-50N	023-38-59E	Lat 3,500 Long 6,000
2. Glazov B36-5	58-18-23N	052-46-36E	3,000
3. Kuressaare B32-5	58-19-08N	022-19-45E	3,500
4. Magnitogorsk B09-5	53-22-05N	059-18-15E	2,000
5. Minsk C22-5	53-43-17N	027-20-39E	3,000
6. Orekhovo-Zuyevo C08A-5	55-56-49N	039-35-40E	3,500
7. Severodvinsk A13-5	64-18-15N	039-49-30E	Lat 3,000 Long 6,000
8. Leningrad C06-5 (Training Facility)	60-07-27N	030-58-28E	3,000

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Attachment 2 to

LAUNCH COMPLEX ORIENTATIONS*

<u>Complex</u>	<u>General Launch Orientation</u>	
Brest A03-5	225°	
Gorkiy C33-5	300°	
Kalinin A33-5	310°	
Kazan B06-5	5°	
Kherson A13-5	130°	
Komsomolsk B27-5	80°	
Magnitogorsk B09-5	[]	25X1A
Maloyaroslavets A19-5	190°	
Nakhodka B30-5	[]	25X1A
Nazarovo A04-5	[]	
Olenegorsk B11-5	295°	
Orehovo-Zuyevov C08A-5	[]	25X1A
Ostrov A33-5	290°	
Perm A07-5	[]	25X1A
Riga A20-5	[]	
Sary-Shagan D19-5	240°	
Sary-Shagan Complex A (Launch Sites 3&4)	45°	
Svobodnyy A32-5	20°	
Toropets A21-5	[]	25X1A
Zaporozhye B13-5	[]	

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