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NPIC/R-918/64
November 1964

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PHOTOGRAPHIC INTERPRETATION REPORT

POSSIBLE AMM-ASSOCIATED ACTIVITY
AND OTHER INSTALLATIONS
MOSCOW AREA, USSR, [REDACTED]

15280

25X1D



CIA



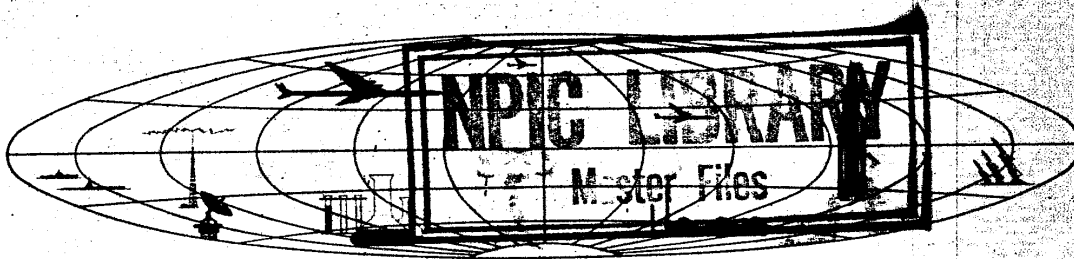
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PHOTOGRAPHIC INTERPRETATION REPORT

POSSIBLE AMM-ASSOCIATED ACTIVITY
AND OTHER INSTALLATIONS,
MOSCOW AREA, USSR. [REDACTED]

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INTRODUCTION

This report describes changes and additions at the following installations, as requested by CIA requirement C-RR4-81,664: Moscow SAM Sites E03-1, E15-1, E24-1, and E33-1, the Naro-Fominsk Suspect Phased-Array Radar Site, [REDACTED]

25X1D

and the Kirzhach Area Suspect Space-

Tracking Facility (Figure 1). (The latter has been previously reported 6/ as unidentified plus configurations.) All information herein is based on KEYHOLE photography since coverages on which the referenced reports dealing with the installations 1-6/ were based.

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25X1D

25X1D

MOSCOW SAM SITE E05-1

25X1D

This site (Figure 2) is located at 56-14-34N 38-35-05E, approximately 44 nautical miles (nm) northeast of Moscow. The last detailed NPIC report dealing with the site 1/ was based on [REDACTED]

25X1D

age. In [REDACTED] a curved ditch was observed east of it. On the [REDACTED] coverage a road is discernible extending from the small northwest building toward the northwest side of the large building, as well as 2 scars or traces extending from the other small building to the triad service road.

25X1D

25X1D

TRIAD AREA

Construction in the triad area continues, with exterior changes observed at 2 of the buildings. In [REDACTED] the roof of the small northwest building (Figure 2, item 1) appeared incomplete, but by [REDACTED] it appeared to have been completed. It was also ascertained on the [REDACTED] coverage that the previously reported unidentified object on the roof of the large triad building is an elevated platform 40 feet square (item 2), similar to that observed in [REDACTED] on the large triad building at Site E15-1. 2/ Adjacent and parallel to the northeast end of the building is an unidentified building, 140 by 55 feet (item 3), resembling the buildings similarly positioned at Sites E15-1, E24-1, and E33-1. The building at E05-1 was first observed on the [REDACTED] cover-

25X1D

25X1D

25X1D

25X1D

25X1D

LAUNCH AREA

A cleared area of approximately 33,000 square feet (item 4), located between the fourth and fifth rib roads and on the north side of the centerline road, was first observed on the [REDACTED] photography. By [REDACTED] the clearing had been expanded to approximately 44,550 square feet.

25X1D

GUIDANCE AREA

No changes have been observed in the guidance area since [REDACTED]

SUPPORT AREA

The following 7 buildings have been newly identified in the support area on the [REDACTED] photography:

- Building 140 by 65 feet, probably gable roofed (item 5)
- Building 80 by 40 feet, probably gable roofed (item 6)
- Possible batch plant 105 by 40 feet (item 7)

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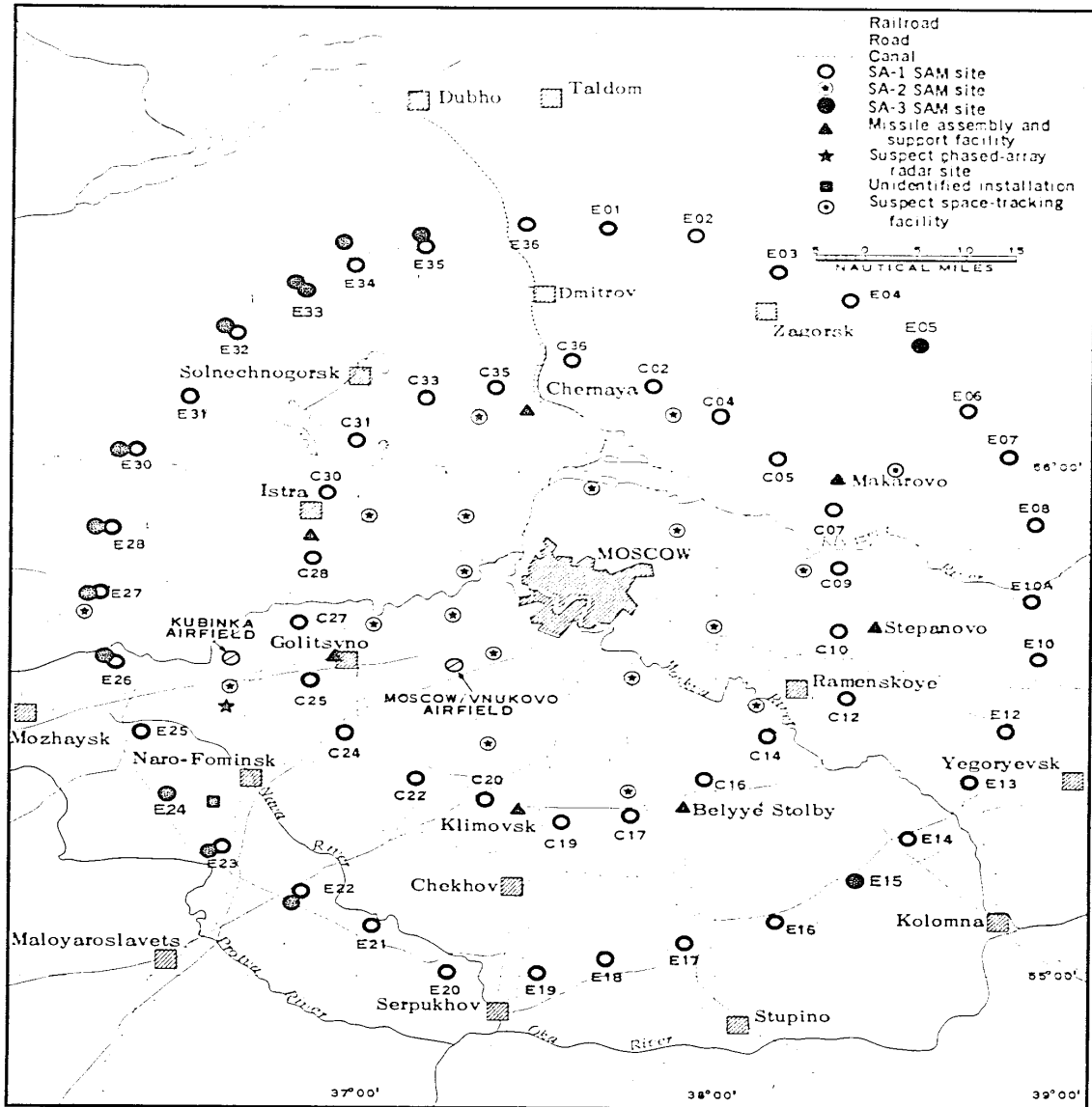


FIGURE 1. LOCATION OF INSTALLATIONS.

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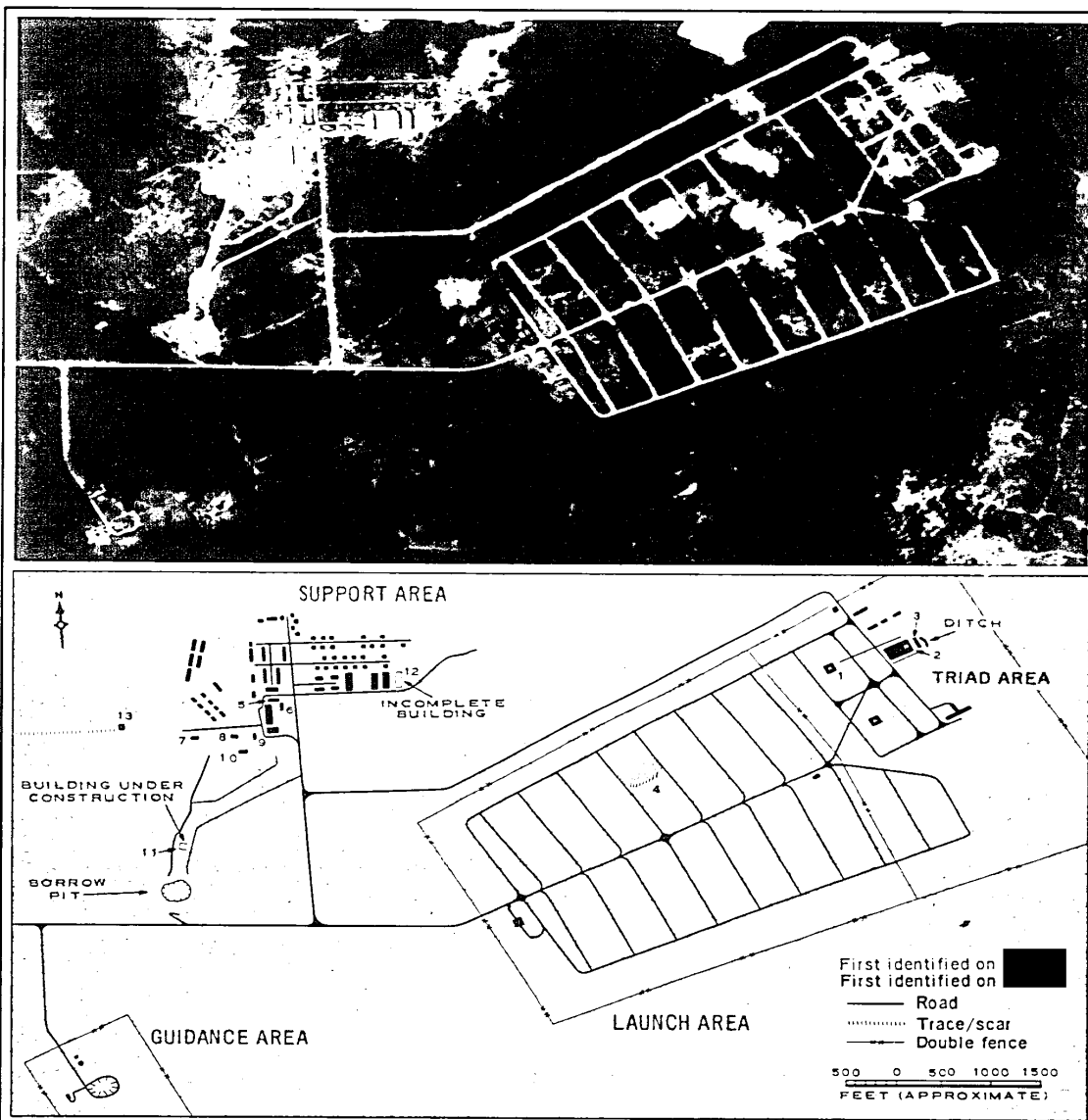


FIGURE 2. MOSCOW SAM SITE E05-1, [REDACTED]

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- Building 65 by 35 feet, probably gable roofed (item 8)
- Building 55 by 30 feet, probably gable roofed (item 9)
- Building 35 by 20 feet, undetermined roof configuration (item 10)
- Building under construction (item 11). Three walls are observed, two 125 and one 80 feet long.

It has been determined that 1 of the 195- by 40-foot buildings previously reported as complete (item 12) is incomplete, with no apparent evidence of construction activity. On the [redacted] photography, a ground trace or scar, which can be observed approaching the site from the west, appears to terminate at a structure measuring approximately 55 by 25 feet (item 13).

25X1D

MOSCOW SAM SITE E15-1

25X1D

This site (Figure 3) is located at 55-09-50N 38-22-15E, approximately 44 nm southeast of Moscow. The last detailed NPIC report dealing with the site 2/* was based on photography of [redacted]

[redacted] expanded to approximately 73,000 square feet. Two revetments, one measuring approximately 185 by 135 feet (item 3) and the other 150 by 115 feet (item 4) have been observed on the north side of the ninth rib road. The larger revetment was first identified on [redacted]

25X1D

25X1D

25X1D

TRIAD AREA

25X1D

25X1D

Construction has continued on the second level of the west triad building (Figure 3, item 1), and the roof appears nearly complete on the [redacted] photography. No extensive exterior changes in the other 2 triad buildings were noted between the [redacted] coverages.

GUIDANCE AREA
No apparent change has occurred in the guidance area between the [redacted] coverages.

25X1D

25X1D

LAUNCH AREA

A scarred area covering approximately 46,675 square feet (item 2) along the fifth rib road was observed on photography of [redacted]

SUPPORT AREA
No significant change has been observed in the support area between the [redacted] and [redacted] coverages. A ground trace or scar, first observed in [redacted] approaches the site from the southeast, parallels the east side of the launch area, and terminates approximately 1,300 feet south of the support area in a field.

25X1D

25X1D

25X1D

25X1D

MOSCOW SAM SITE E24-1

Site E24-1 (Figure 4) is located at 55-21-04N 36-29-27E, approximately 45 nm southwest of Moscow. The last detailed NPIC report dealing with the site 3/ utilized photography of [redacted]. Since then, 2 mis-

Since then, 2 mis-

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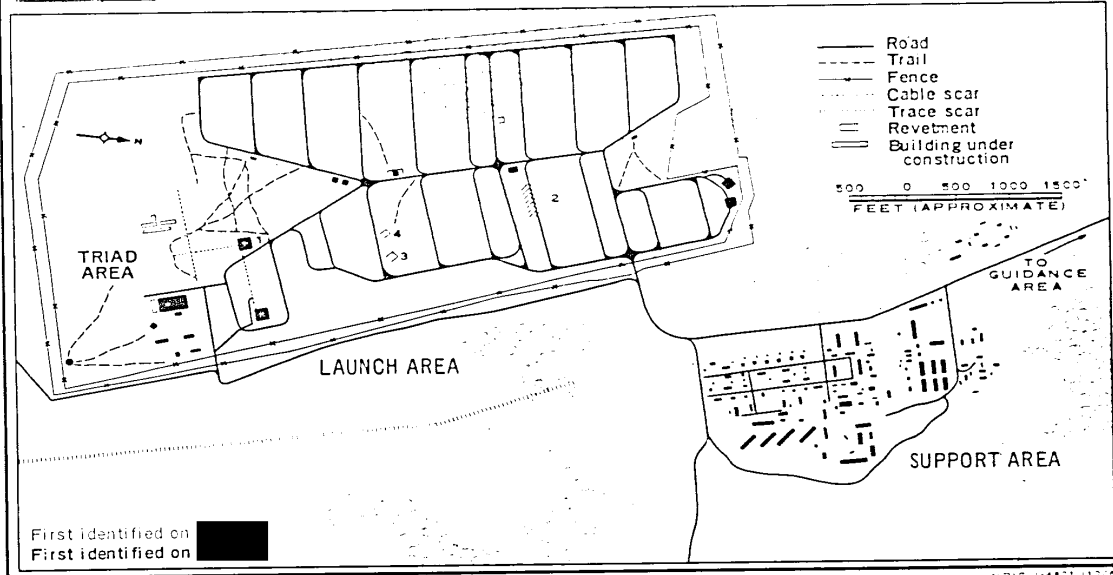
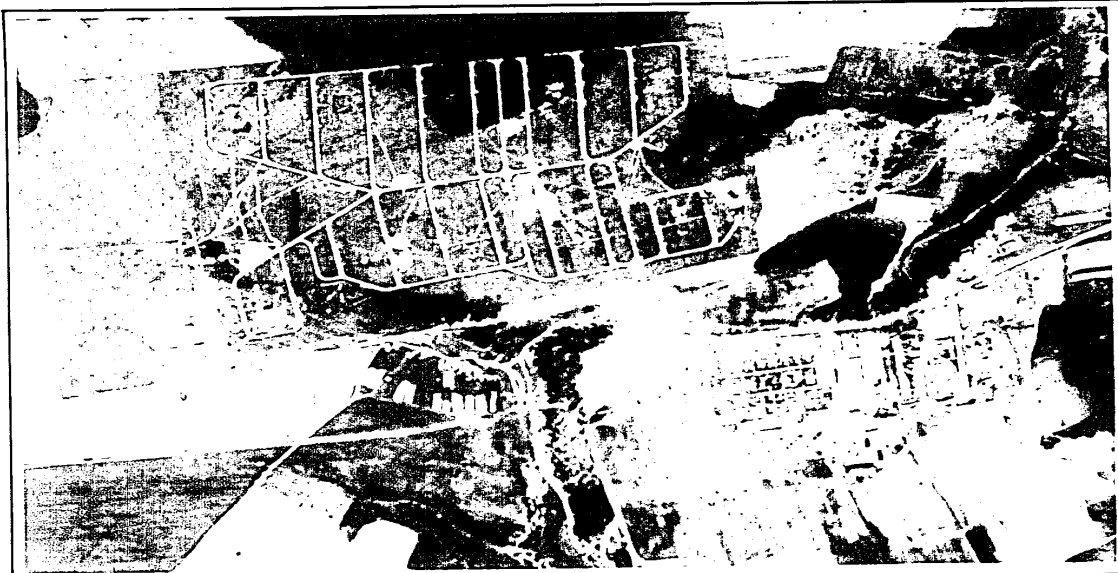


FIGURE 3. MOSCOW SAM SITE E15-1, [REDACTED]

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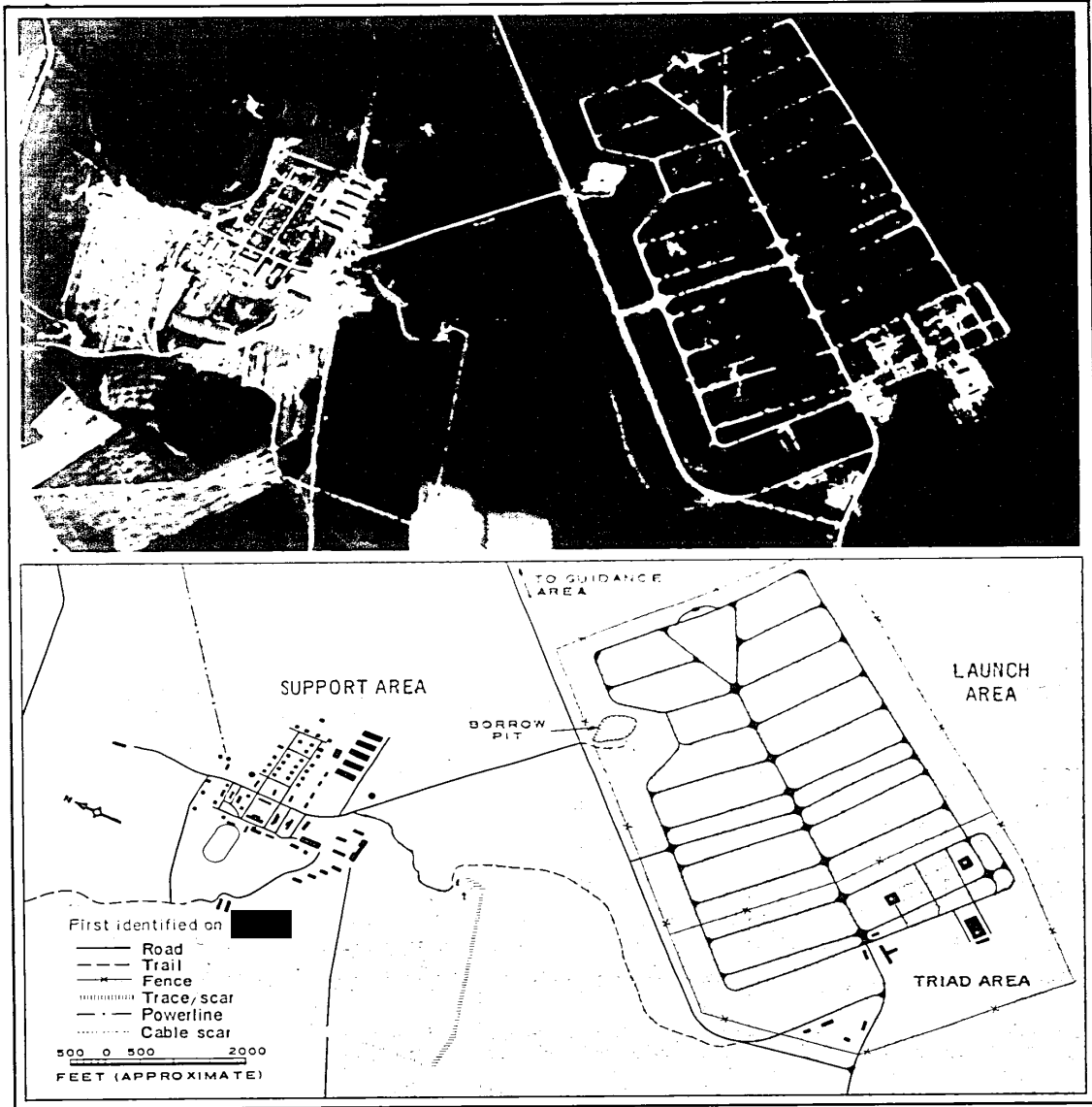
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[REDACTED]

guidance area during the same time span.

25X1D

SUPPORT AREA

25X1D

TRIAD AREA

Two traces or ground scars, portrayed as roads in previous reports, have been identified on the west side of the site on the late [REDACTED] photography. One approaches the site from the south, crosses the site service road, and extends northward. The other branches off it, extends east, and terminates at an unidentified structure measuring approximately 30 by 10 feet (Figure 4, item 1). Both traces/scars were present as early as [REDACTED]

25X1D

No extensive exterior changes have been observed in the triad area between [REDACTED] and the [REDACTED] coverage. Construction activity is still noted throughout the area.

25X1D

25X1D

LAUNCH AREA

No changes have been observed in the launch area between [REDACTED] coverage.

25X1D

GUIDANCE AREA

No changes have been observed in the

25X1D

25X1D

MOSCOW SAM SITE E33-1

25X1D

25X1D

This site (Figure 5) is located at 56-20-00N 36-48-27E, approximately 45 nm northwest of Moscow. The last detailed NPIC report dealing with the site 3/* utilized photography dated [REDACTED]

[REDACTED] just northwest of the large triad building. This building probably was present on [REDACTED] coverage but was not clearly defined.

25X1D

The following changes and additions have been derived from [REDACTED]

A probable security building 20 by 20 feet (item 3) has been identified on the south side of the triad access road, along the inner security fence. This building may have been present on earlier coverage, but was not discernible because of a thick stand of trees in the area.

25X1D

25X1D

TRIAD AREA

No extensive exterior changes were noted in the building triad between [REDACTED]

LAUNCH AREA

The previously reported low-profile possible revetting (item 4) observed along 1 rib road can now be confirmed as a revetment. It is U-shaped and measures 160 by 125 by 160 feet.

25X1D

25X1D

The [REDACTED] The previously reported probable passageway or conduit connecting the large triad building with the unidentified building northwest of it is not visible on any of the 4 coverages. The [REDACTED] coverage revealed a ring 85 feet in diameter (Figure 5, item 1), similar to that observed on the roofs of other triad buildings, on the ground adjacent to the west small triad building.

GUIDANCE AREA

No apparent change has occurred in the guidance area between the [REDACTED] coverages.

25X1D

A 75- by 30-foot building (item 2) has been newly identified on [REDACTED]

SUPPORT AREA

The following structures have been newly identified in the support area on [REDACTED] cover-

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*Except for NPIC R-836 64 (Sep 64), which touched on it briefly.

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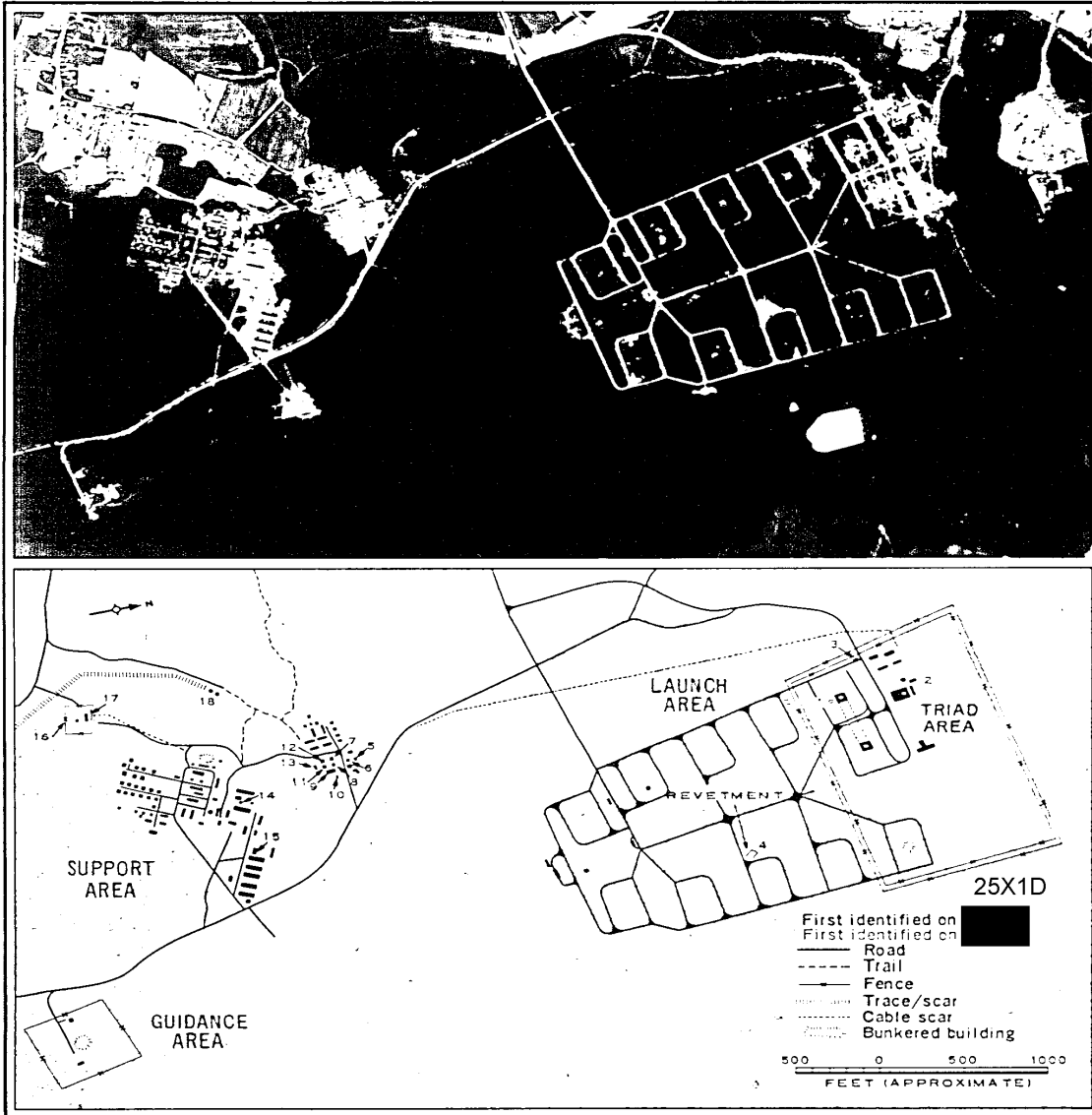


FIGURE 5. MOSCOW SAM SITE E33-1, [REDACTED]

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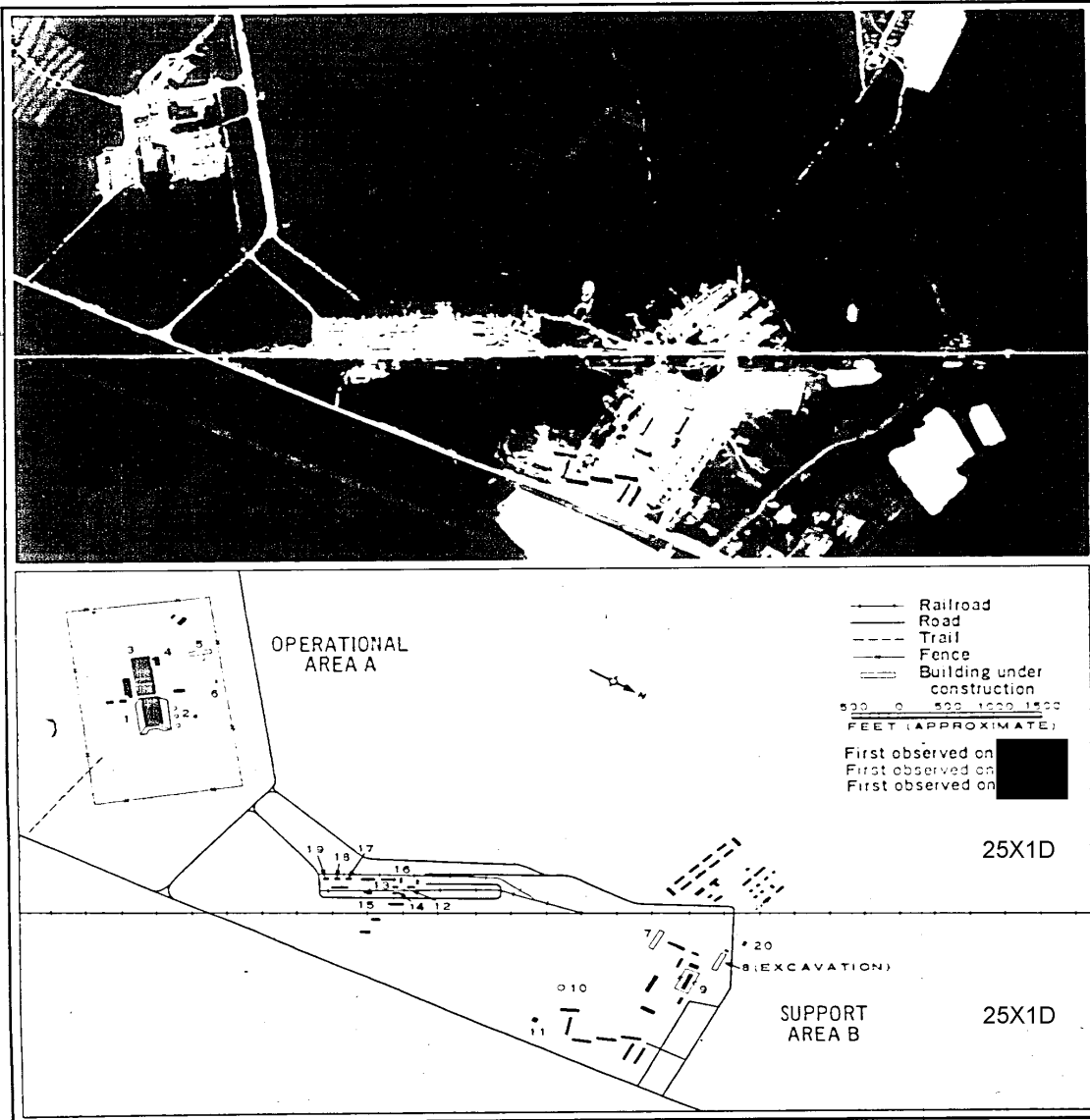


FIGURE 6. OPERATIONAL AREA A AND SUPPORT AREA B, SUSPECT AMM PHASED-ARRAY RADAR SITE, [REDACTED]

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25X1D

25X1D

Some of the buildings were present on the photography but were not identified on it.

Building 55 by 25 feet, probably flat roofed (item 5)

Building 55 by 25 feet, probably gable roofed (item 6)

Building 50 by 35 feet, probably gable roofed (item 7)

Probable storage tank 30 feet in diameter (item 8)

Building 170 by 40 by 20 feet (item 9). It narrows at north end, and in previous reports has been portrayed as 2 buildings.

Building 40 by 20 feet, probably flat roofed (item 10)

Building 75 by 35 feet, undetermined roof configuration (item 11)

Building 55 by 25 feet, probably gable roofed (item 12)

Building 125 by 35 feet, probably gable roofed (item 13)

Stack (item 14) adjacent to west side of previously reported building. Building was first identified on coverage

25X1D

coverage

but stack was not discernible then. Revised dimensions of building are 120 by 30 feet (reported previously as 60 by 30 feet).

25X1D

Building 75 by 45 feet (item 15)

Probable board fence 435 by 435 feet (item 16), enclosing previously reported building 140 by 50 feet and high

25X1D

Probable earthen wall (item 17) with an opening at center through which a linear scar extends from the latter building toward the support area

25X1D

In addition, the late coverage reveals the extension of a ground trace which was first visible on the coverage. The trace approaches the support area from the south and passes west of it, and on the coverage terminated at 2 circular structures approximately 20 feet in diameter (item 18); by late it had been extended to the site service road.

25X1D

No apparent changes in the support area were observed on the late coverage or the photography; however, the area was covered by scattered clouds on all 3 coverages.

25X1D

coverage

coverage

coverage

coverage

coverage

coverage

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

SUSPECT AMM PHASED-ARRAY RADAR SITE, NARO-FOMINSK

25X1D

25X1D

The suspect AMM phased-array radar site is located at 55-29-50N 36-41-10E, 7 nm north-northwest of Naro-Fominsk and 35.7 nm west-southwest of Moscow (Figures 6 and 7). The last detailed NPIC report dealing with all 4 areas of the site 4/ was based on photography of

port Area B was provided by

25X1D

25X1D

An NPIC report based on coverage of

OPERATIONAL AREA A

25X1D

25X1D

5/ dealt with Operational Area A exclusively. The following additions and changes at all the component areas except Support Area B have been derived from

Construction on the inverted V-shaped structure, which has been designated DOG HOUSE, continues at an apparently steady rate (Figure 6, item 1). The band of light-toned material first observed on coverage near the top of the north-northwest face of the DOG HOUSE had been extended across the entire width by late. The tower crane (item 2) observed near the center of the north-northwest face on had been moved to the west by late which indicates that the crane is

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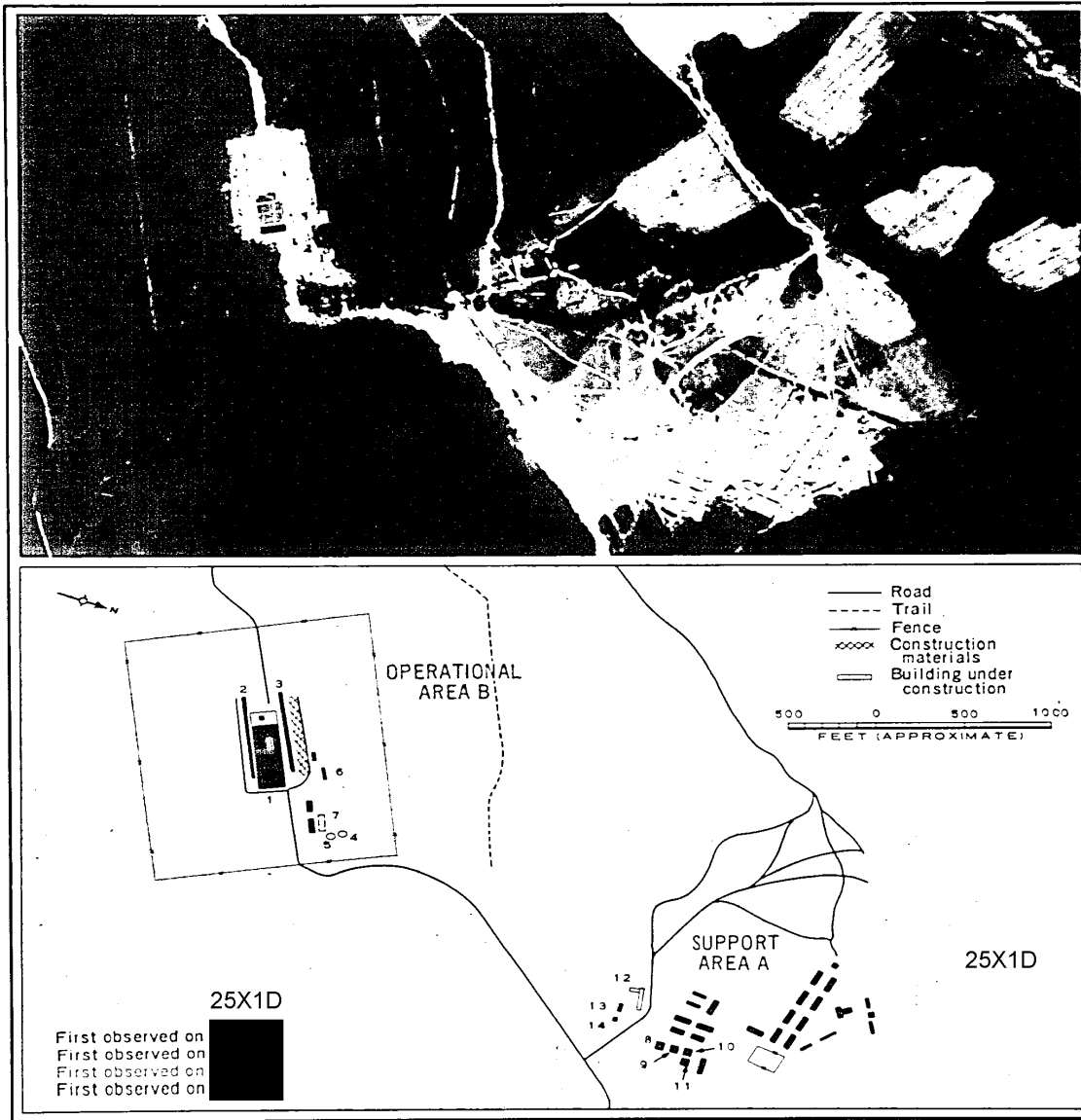


FIGURE 7. OPERATIONAL AREA B AND SUPPORT AREA A, SUSPECT AMM PHASED-ARRAY RADAR SITE, [Redacted]

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25X1D

25X1D

being used to apply the material. By [redacted] the crane had been moved to the opposite end of the DOG HOUSE. A light-toned surfacing material was being applied to the west end of the roof in late [redacted] the entire roof had been covered with the material.

25X1D

Construction progress was observed at the possible control building (item 3), also. A dark-toned, possibly bituminous material, first observed being applied to the building's roof on [redacted] covered the entire length of the roof by [redacted]

25X1D

25X1D

The annex (item 4) at the northwest corner of the control building was attached to it by a covered wing or passageway by late [redacted] approximately 85 percent of the annex had been roofed.

25X1D

25X1D

Two buildings added to Operational Area A since [redacted] have been newly identified. These are a T-shaped building 240 by 90 by 45 feet (item 5), located north of the control building and still under construction on the [redacted] photography, and a probable security building 25 by 25 feet (item 6), located just inside the northwest fenceline. The 2 buildings were first observed on the [redacted] coverage.

25X1D

25X1D

OPERATIONAL AREA B

Construction on the suspect control building (Figure 7, item 1) continues, and it is determined now to be approximately 655 by 220 feet. A black surfacing material, possibly bituminous, was being applied to the east end of the roof on [redacted] coverage. By [redacted] the material had been applied to about 75 percent of the roof. Two walls under construction (items 2 and 3), approximately 780 and 740 feet long and 35 feet thick, parallel the north and south sides of the suspect control building and extend approximately 195 feet west of the building. On [redacted] coverage a probable tank (item 4) and a circular excavation for a second tank (item 5) were observed. By [redacted] the

25X1D

25X1D

walls of both were visible and the tanks measured [redacted] in diameter. Between coverage of [redacted] a building 105 by 35 feet (item 6) and the footings for a building 160 by 55 feet (item 7) were constructed. A security fence with approximate dimensions of 2,410, 1,945, 2,375, and 1,900 feet was built around Operational Area B during the same period. Open storage of construction material was observed throughout the area on all 4 coverages.

25X1D

25X1D

SUPPORT AREA A

The following buildings have been newly identified, the first 5 on the [redacted] coverage and the last 2 on [redacted] coverage:

4 Buildings 60 by 35 feet, gable roofed (Figure 7, items 8-11)

Building under construction, 185 by 30 feet, probably flat roofed (item 12), with a wing 50 by 20 feet on its south side

Building 60 by 30 feet, probably gable roofed (item 13)

Building 35 by 30 feet, probably gable roofed (item 14)

25X1D

25X1D

Construction material was observed in the area on all 4 coverages.

SUPPORT AREA B

The following new structures have been identified, all on the [redacted] coverage except the last, which was identified on the [redacted] coverage:

Building under construction, 295 by 50 feet (Figure 6, item 7)

Probable building under construction 245 by 55 feet (item 8). (Only an excavation was observed on all 3 missions.)

Board security fence 290 by 235 feet (item 9). Surrounds a previously reported multistory apartment-type building, 220 by 45 feet and 30 feet high.

Standpipe (item 10)

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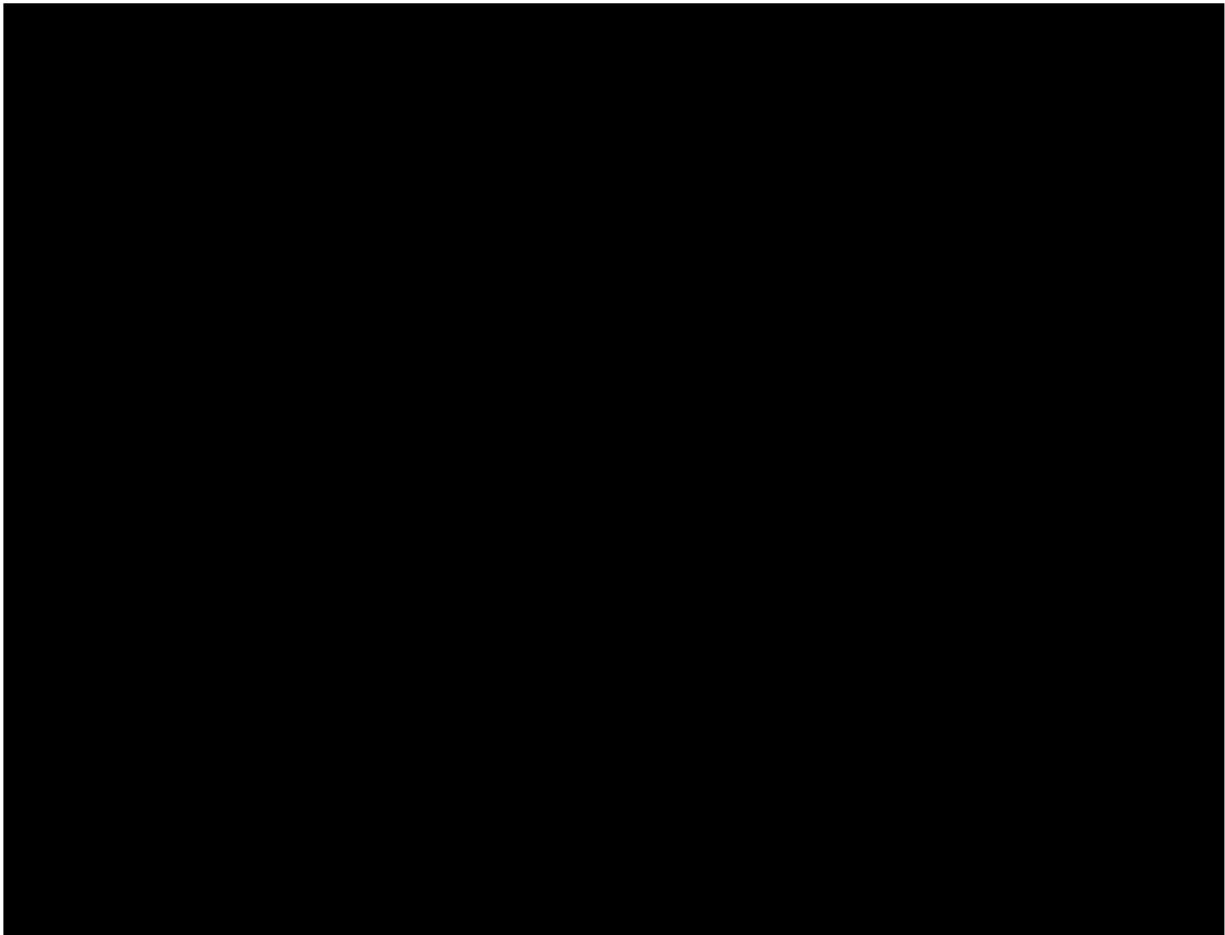
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Unidentified structure 35 by 20 feet (item 11)
Building 175 by 30 feet, gable roofed
(item 12)
Building 90 by 20 feet, gable roofed (item 13)
Building 40 by 20 feet, flat roofed (item 14)
Building 125 by 80 feet, gable roofed
(item 15)
Building 100 by 35 feet, gable roofed

(item 16)
Building 70 by 20 feet, probably flat roofed
(item 17)
Building 70 by 20 feet, gable roofed (item 18)
Building 70 by 20 feet, probably gable
roofed (item 19)
Building 40 by 30 feet, probably gable
roofed (item 20)

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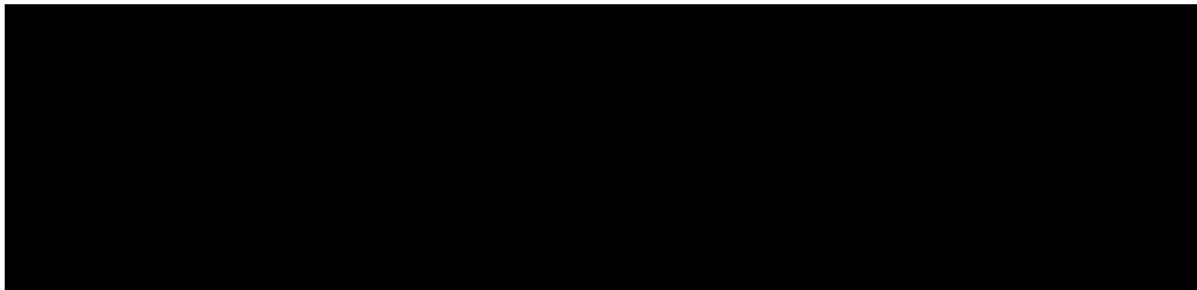
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25X1D ~~SUSPECT SPACE-TRACKING FACILITY, KIRZHACH AREA~~ 25X1D

The suspect space-tracking facility (Fig-
ures 9-13) consists of 2 interferometer
sites--1 suspect and 1 confirmed--a support
area, and an area of unidentified activity.
The facility is situated 13 nm west-southwest
of the town of Kirzhach and approximately 35.8
nm northeast of Moscow, in generally flat ter-
rain. An extensive system of drainage ditches
indicates marshy soil, particularly near the
suspect interferometer site.

ing 125 by 125 feet is positioned at both bi-
section points. Two other buildings, 305 by
110 feet, are arranged end-to-end between
the bisection points. The 2 pluses overlap by
50 percent and in such a way as to give the site
a rectangular outline. A line drawn through the
bisection points is oriented on an azimuth of
approximately [REDACTED]

25X1D

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25X1D

[REDACTED] 1 plus configuration was under
construction; the support area was under con-
struction in [REDACTED]

The plus configuration arrangement of ele-
ments is ideal for phase-measuring techniques,
and when combined with exceptionally long
baselines, would offer great accuracy in space
tracking.

The last detailed NPIC report dealing with
the facility 6/ was based on KEYHOLE photog-
raphy through [REDACTED]. The following
information has been derived from Missions
[REDACTED]

INTERFEROMETER SITE

This site (56-04-00N 38-30-25E), which
apparently is unsecured, consists of twin, ad-
jacent interferometers and a probable control
center (Figure 11).

SUSPECT INTERFEROMETER SITE

The suspect interferometer site (56-05-05N
38-29-25E) consists of a secured area approxi-
mately 8,785 by 5,730 feet (approximately 1,156
acres) containing numerous control-type build-
ings and a network of probable cable scars (Fig-
ure 10). Scars 6,875 feet long form 2 overlapping
plus configurations that suggest interferometers
with exceptionally long baselines. A building 70
by 55 feet with a possible antenna on the roof is
positioned at each of the 8 termini, and a build-

The interferometers are of the standard
Soviet type, such as are deployed singly at the
Tyuratam and Kapustin Yar/Vladimirovka Mis-
sile Test Centers and at other locations through-
out the USSR. The clearings for the baselines,
which bisect each other at right angles, are
from 1,130 to 1,290 feet long. An apparent modi-
fication consists of ground scars which form
probable leg extensions at the northwest inter-
ferometer. Near the bisection point of each
interferometer is a partially buried control

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FIGURE 9. SUSPECT SPACE-TRACKING FACILITY, [REDACTED]

- 16 -

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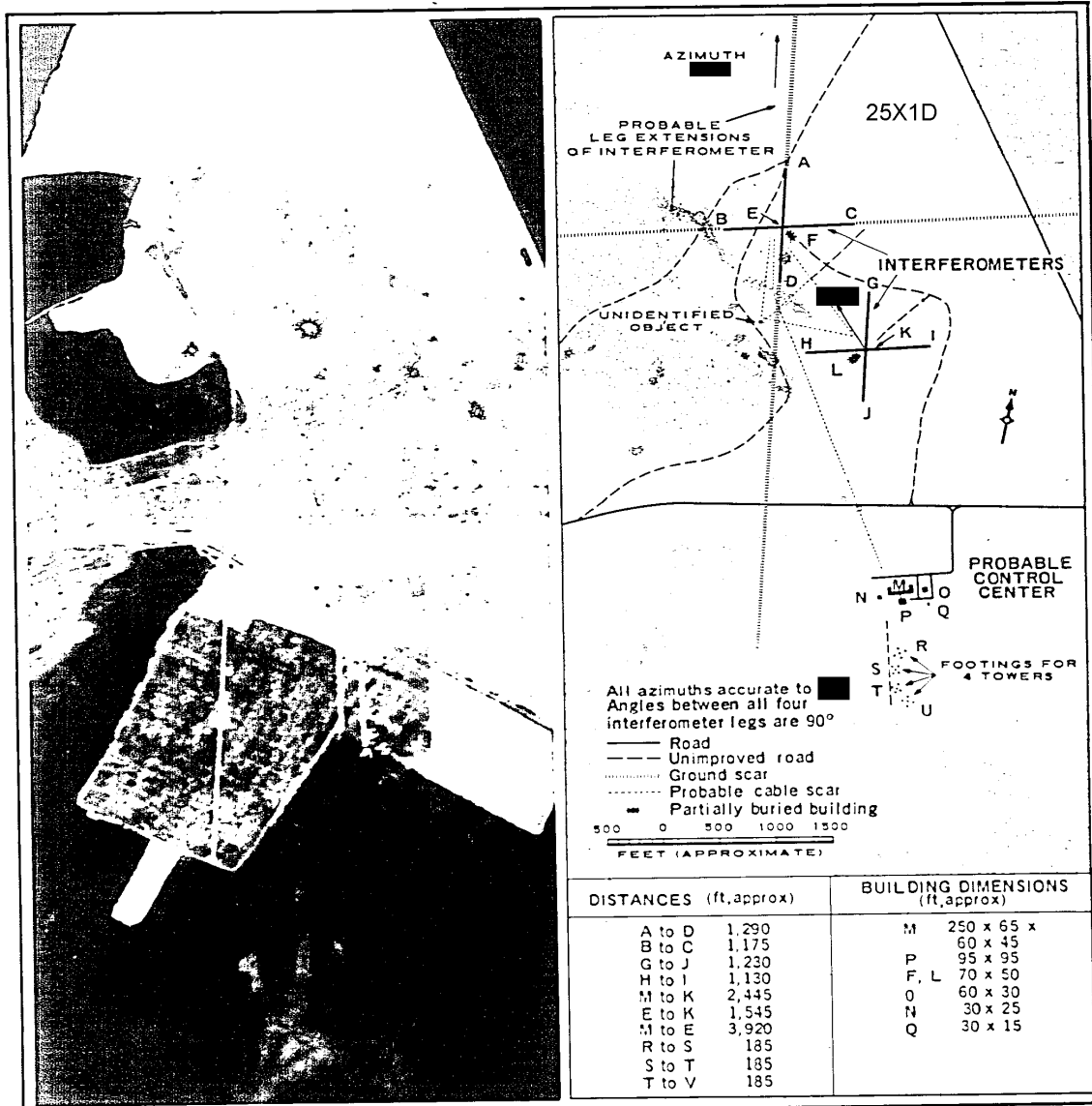


FIGURE 11. INTERFEROMETER SITE, SUSPECT SPACE-TRACKING FACILITY.

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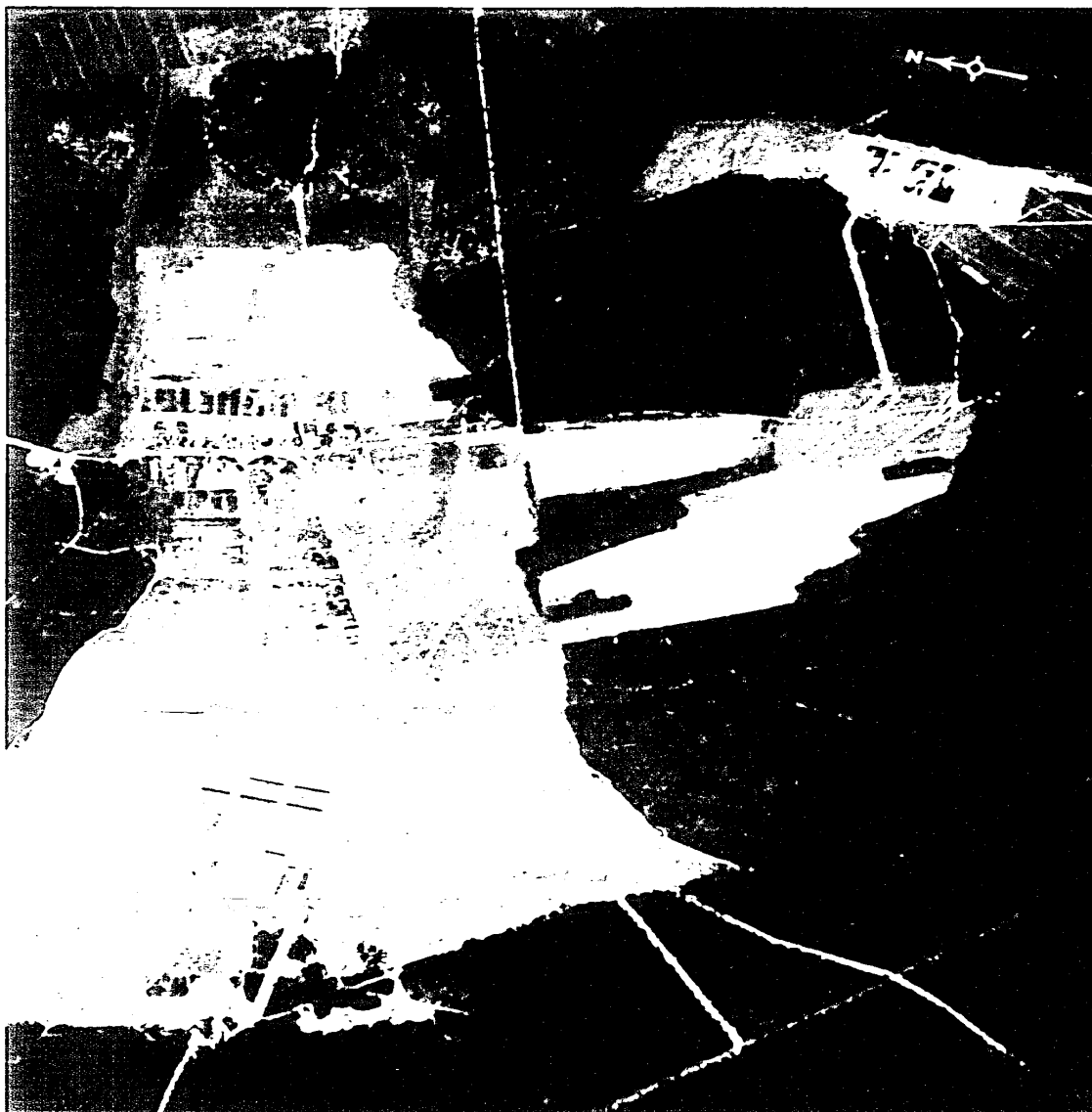


FIGURE 12. SUPPORT AREA, SUSPECT SPACE-TRACKING FACILITY. [REDACTED]

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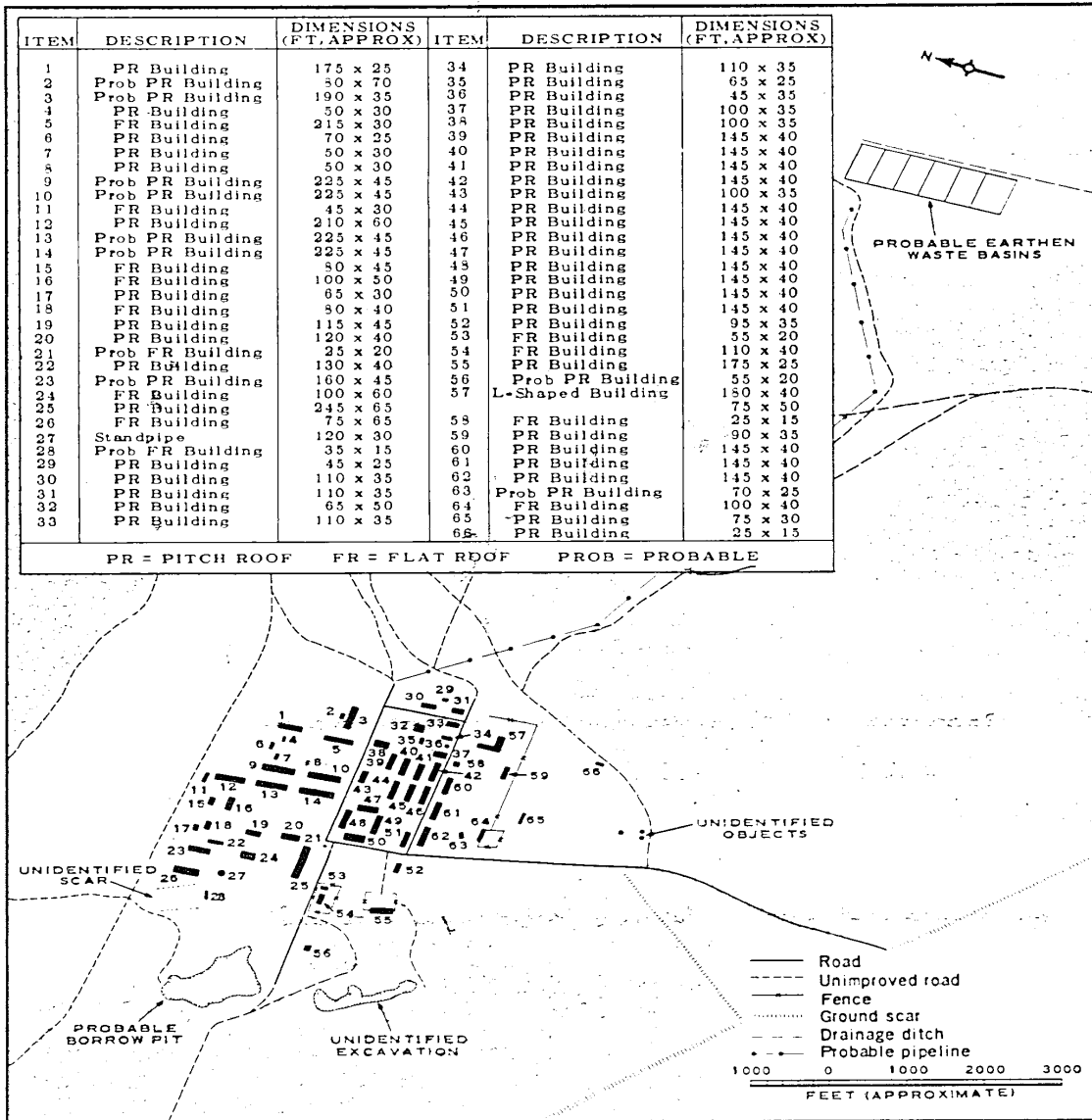


FIGURE 13. LAYOUT OF SUPPORT AREA, SUSPECT SPACE-TRACKING FACILITY.

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building approximately 70 by 50 feet. A line drawn through the bisection points is oriented on an azimuth of approximately [REDACTED]

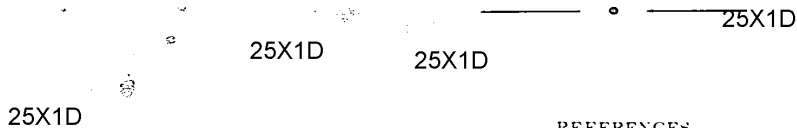
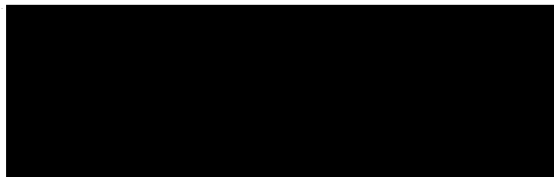
The similarity of this azimuth to that of the suspect interferometer site (all azimuths are accurate to within plus or minus [REDACTED] indicates that the 2 sites may operate in conjunction.

The probable control center is about 2,000 feet south of the interferometers. It consists of a large U-shaped building with a smaller, square building apparently connected to its south side and, just south of these buildings, footings for at least 4 antenna poles. Although no actual antennas can be identified, the arrangement of the footings indicates high-frequency communications. At least 3 other small, miscellaneous buildings are in the area.

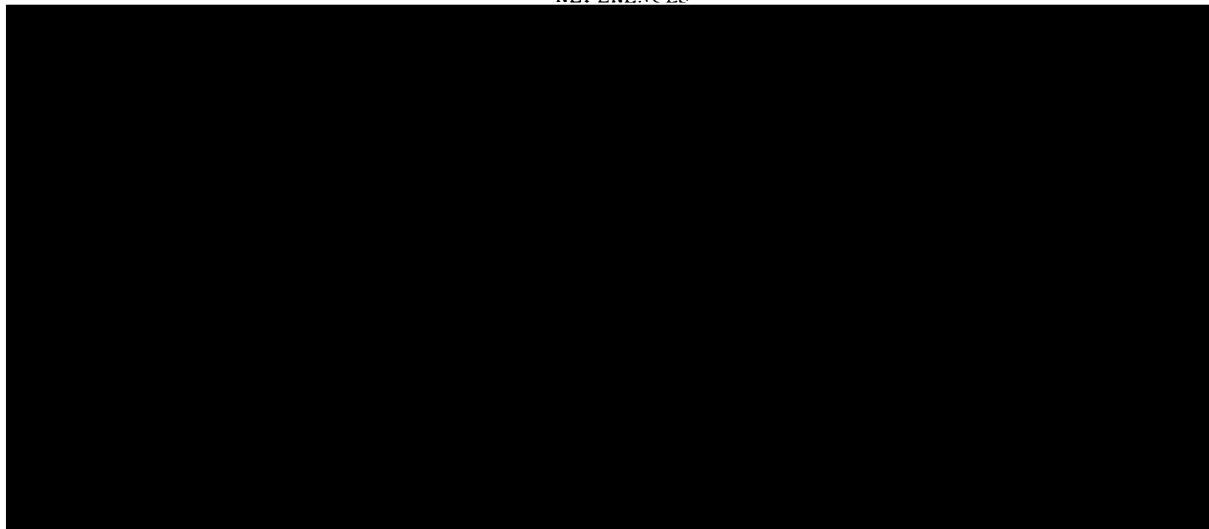
Another, nearly identical twin interferometer site has been located at Talsi, USSR, at 57-17N 22-35E. 7/

SUPPORT AREA AND AREA OF UNIDENTIFIED ACTIVITY

A sizable support area (Figures 12 and 13) is located between the 2 interferometer sites and offset somewhat to the east. It contains over 65 buildings and structures (types and dimensions are given in Figure 13).



REFERENCES



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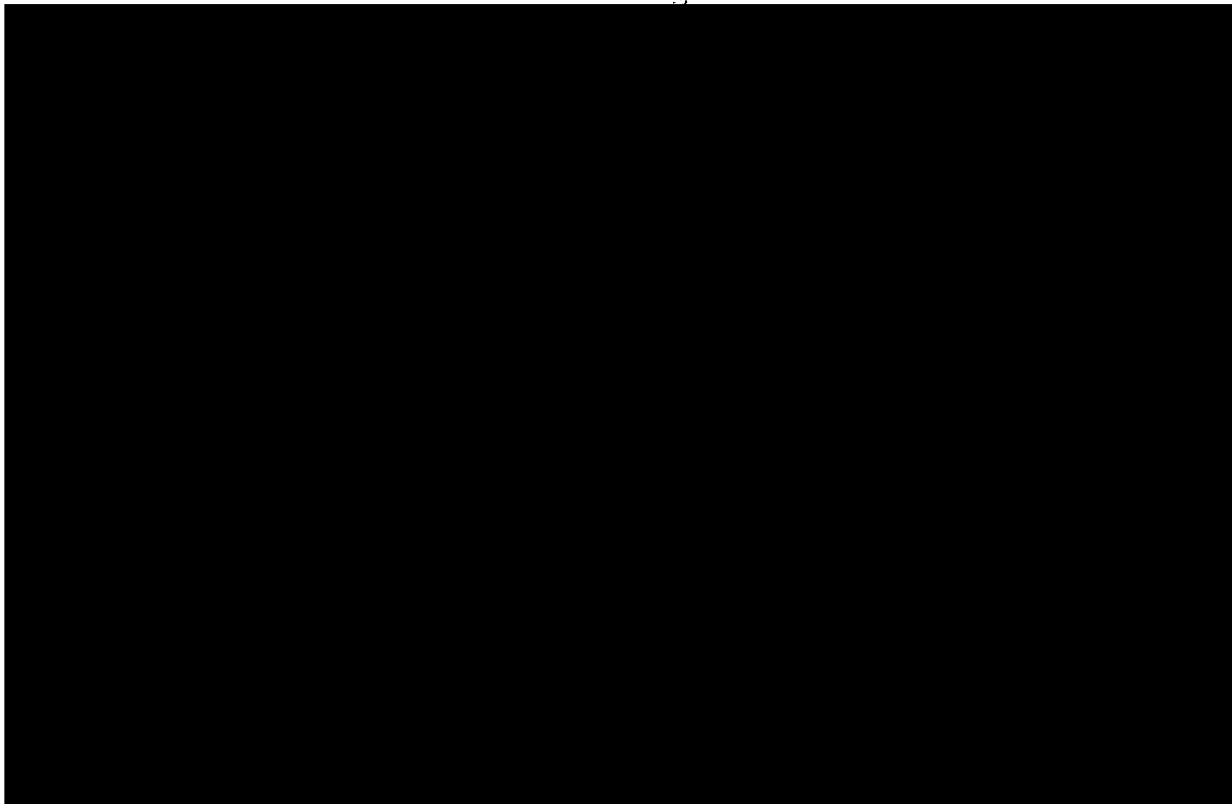
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TCS-8467/64
NPIC/R-918/64

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REFERENCES (Continued)



MAPS OR CHARTS

- DIA. US Air Target Chart, Series 200, Sheet 0154-22HL, 2d ed, Mar 63, scale 1:200,000 (SECRET)
- DIA. US Air Target Chart, Series 200, Sheet 0154-23HL, 2d ed, Apr 63, scale 1:200,000 (SECRET)
- DIA. US Air Target Chart, Series 200, Sheet 0167-1HL, 2d ed, Mar 63, scale 1:200,000 (SECRET)
- DIA. US Air Target Chart, Series 200, Sheet 0167-10HL, 2d ed, Feb 63, scale 1:200,000 (SECRET)

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DOCUMENTS

1. NPIC. R-219 64, *Possible AMM-Associated Facilities, Moscow Area, USSR*, [REDACTED] Apr 64 (TOP SECRET CHESS RUFF)
2. NPIC. R-250 64, *Possible AMM-Associated Facility, SAM Site E15-1, Moscow, USSR*, May 64 (TOP SECRET CHESS RUFF)

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REFERENCES (Continued)

- 3. NPIC. R-706 '64, *Possible AMM-Associated Electronic Facilities, Moscow SAM Sites E24-1 and E33-1, USSR*, Aug 64 (TOP SECRET CHESS RUFF)
- 4. NPIC. R-438 '64, *Changes at Suspect AMM Phased-Array Radar, Naro-Fominsk, USSR*, Jun 64 (TOP SECRET CHESS RUFF)
- 5. NPIC. R-621/64, *Suspect AMM Phased-Array Radar, Naro-Fominsk (Moscow Area), USSR*, Jul 64 (TOP SECRET CHESS RUFF)
- 6. NPIC. R-103 '64, *Possible Antimissile Missile Associated Facilities, Moscow Area, USSR*, Feb 64 (TOP SECRET CHESS RUFF)
- 7. B-500 '64, *OAK - Part II*, Aug 64 (TOP SECRET CHESS RUFF)

25X1D

RELATED DOCUMENT

NPIC. R-836 '64, *Unidentified Activity at SA-1 SAM Sites, Moscow, USSR*, Sep 64 (TOP SECRET CHESS RUFF)

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REQUIREMENT

CIA. C-RR4-81,664

NPIC PROJECT

N-847 '64

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