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NPIC/R-64/64

January 1964

PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR NORTHEAST QUADRANT



CIA



DIA

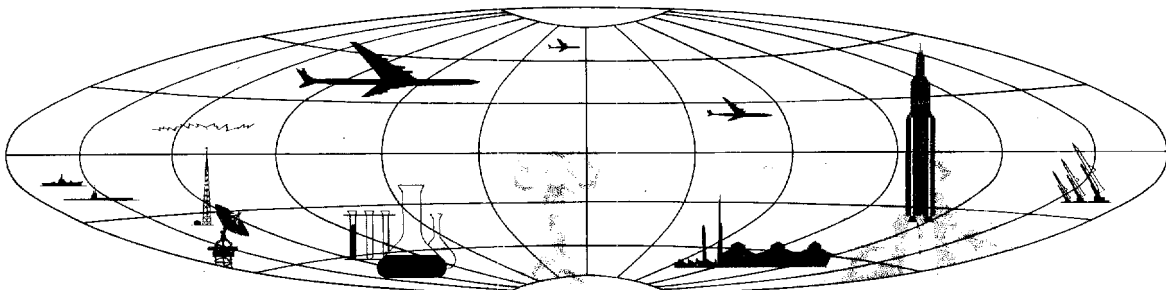
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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR
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PREFACE

In order to provide a foundation for the continuing analysis of Moscow air defenses, a detailed survey of KEYHOLE photography of SA-1 SAM sites surrounding the city has been undertaken under NPIC Project JN-212/62. This report, a partial answer to CIA requirement C-RR-80375, covers the sites in the northeast quadrant (Figure 1). Reports on the other quadrants are in preparation.

25X1D

For each site a photograph is provided, significant changes since the first KEYHOLE coverage are noted, and all KEYHOLE photographic coverage through [REDACTED] is listed. All map references are to US Air Target Charts (USATC), Series 200, second edition, April 1963. No information derived from other photography or collateral sources is included.

NPIC/R-64/64

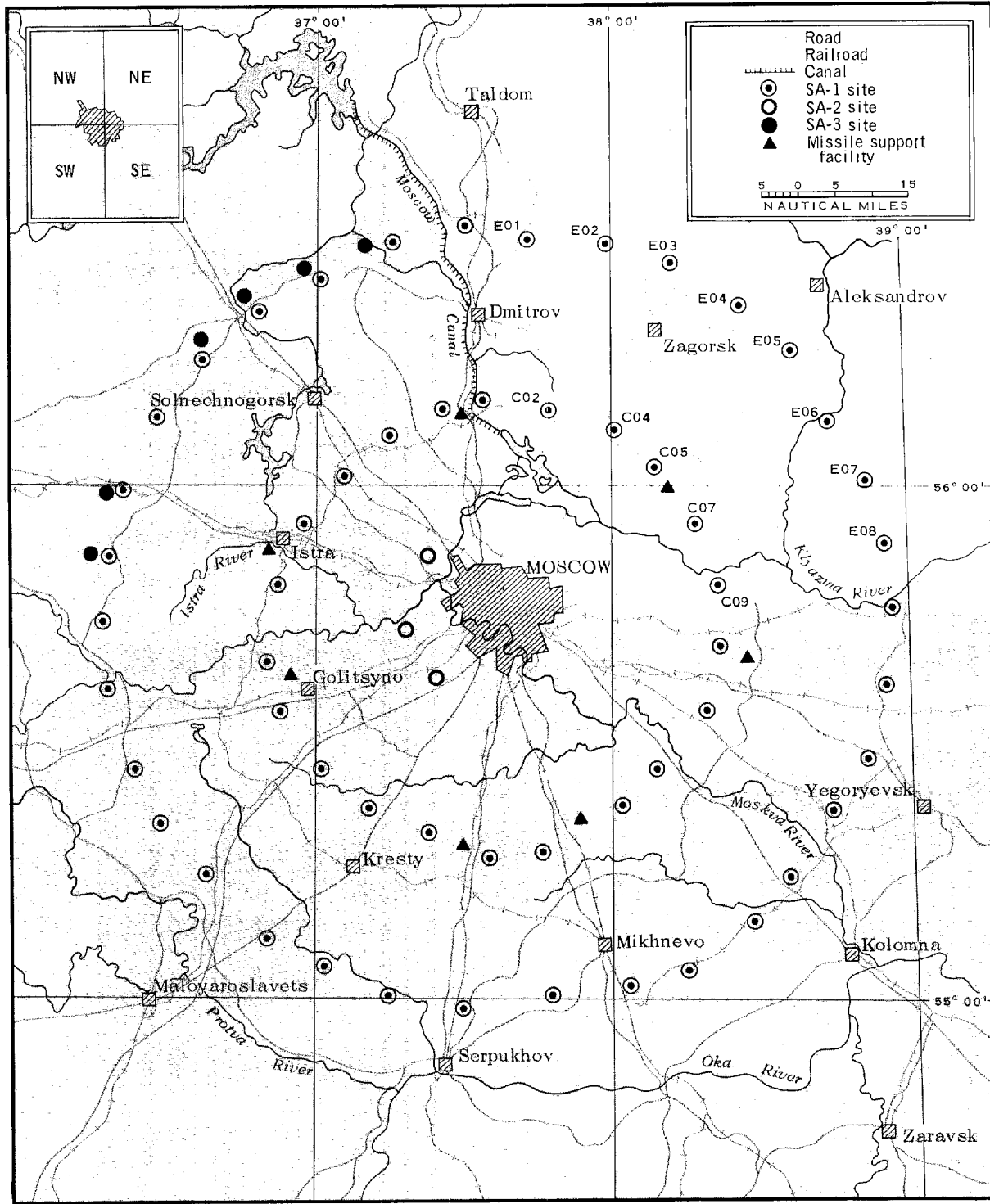


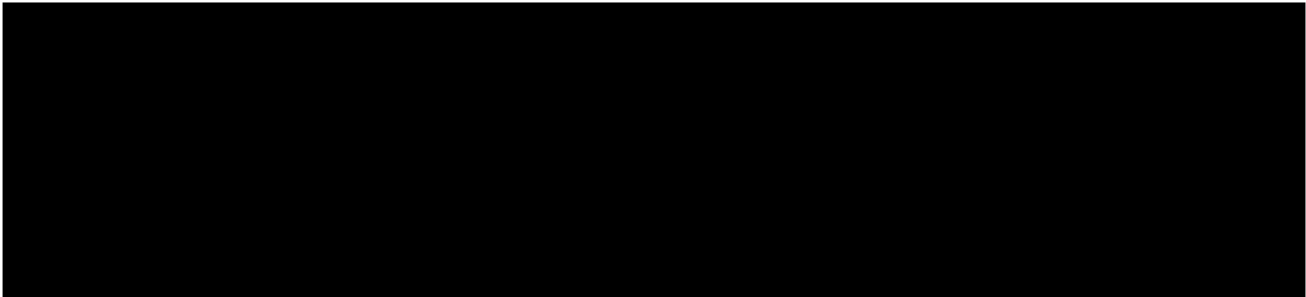
FIGURE 1. LOCATION MAP.

MOSCOW SAM SITE C02-1

25X1A	[REDACTED]	First clear KEYHOLE coverage was in [REDACTED]	25X1D
	NPIC Target No: 0154-97	[REDACTED] The site appeared complete on photography	25X1D
	Coords: 56-10N 37-49E	of [REDACTED] but haze and snow cover pre-	25X1D
	Map Ref: DIA Sheet 0154-23HL (S)	cluded detailed analysis. There was an area	
25X1D	First KEYHOLE coverage [REDACTED]	of unidentified activity (Figure 2, Item 1) evident	
25X1D	[REDACTED]	in [REDACTED] and some further work had been	25X1D
	Status then: undetermined because of haze	done there by [REDACTED] No other changes	25X1D
	and darkness.	were apparent at the site between [REDACTED]	25X1D
		and [REDACTED]	25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D



NPIC/R-64/64

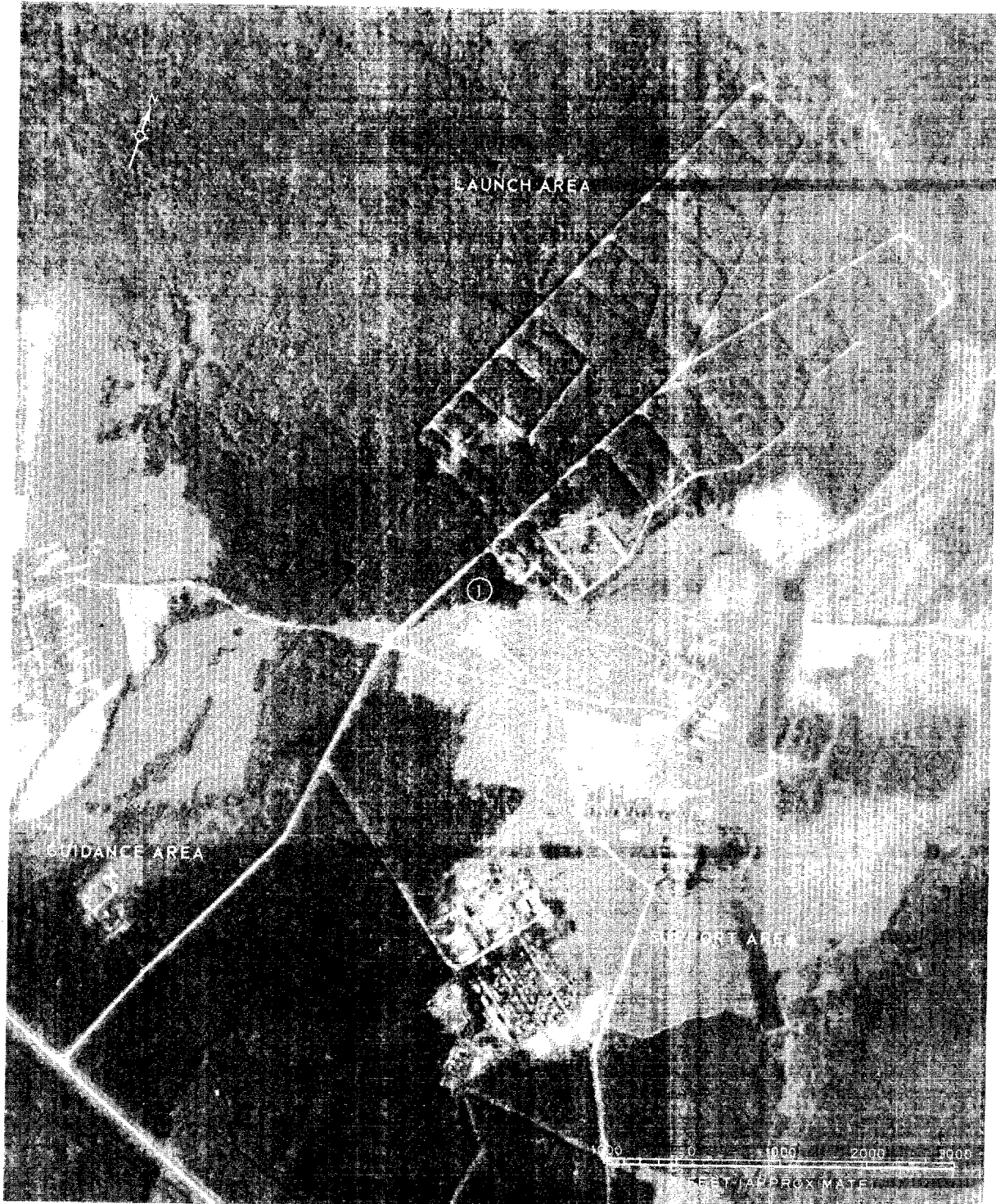


FIGURE 2. MOSCOW SAM SITE C02-1, [REDACTED]

NPIC H-6646 (1/64)

MOSCOW SAM SITE C04-1

25X1A

[REDACTED]

NPIC Target No: 0154-97A

Coords: 56-06N 38-01E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness.

There has been no apparent change at this site since the first clear KEYHOLE coverage,

[REDACTED] Although a break in the film cuts off the northwest corner of the site on [REDACTED]

[REDACTED] photography (Figure 3), there was no construction activity at the site on [REDACTED]

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

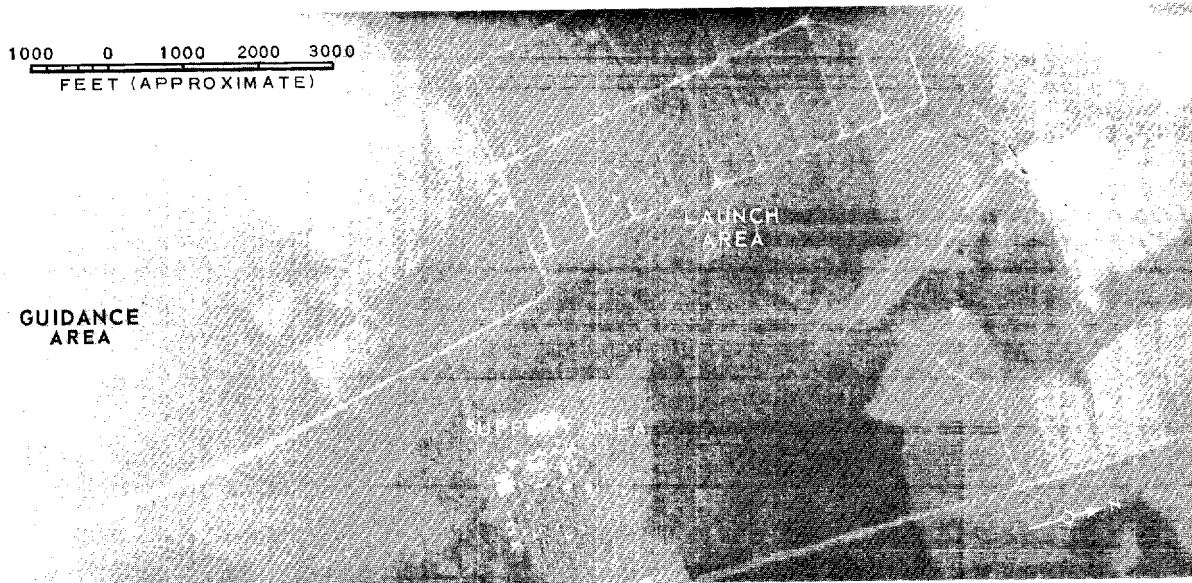
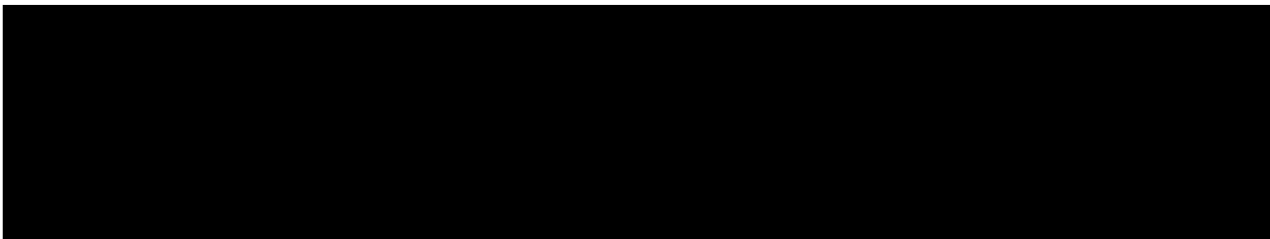


FIGURE 3. MOSCOW SAM SITE C04-1 [REDACTED]

NPIC H-6647 (1/64)

25X1D

MOSCOW SAM SITE C05-1

25X1A

[REDACTED]

NPIC Target No: 0154-97B

Coords: 56-01N 38-10E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

25X1D

25X1D

Status then: undetermined because of haze and darkness.

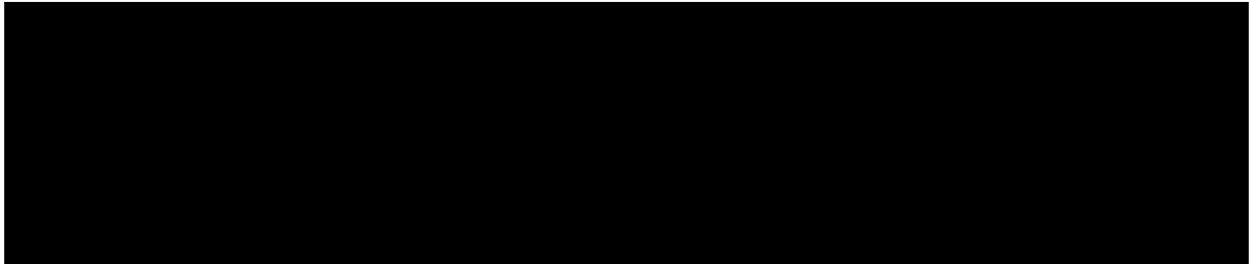
The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete and included a clearing near the guidance area (Figure 4, Item 1). There had been no apparent change in the site by [REDACTED]

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D



NPIC/R-64/64



FIGURE 4. MOSCOW SAM SITE C05-1

NPIC H-6648 11/64

MOSCOW SAM SITE C07-1

25X1A

NPIC Target No: 0167-121

Coords: 55-55N 38-20E

Map Ref: DIA Sheet 0167-5HL (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness.

By (Figure 5) there had been no apparent change in this site since the first clear KEYHOLE coverage

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

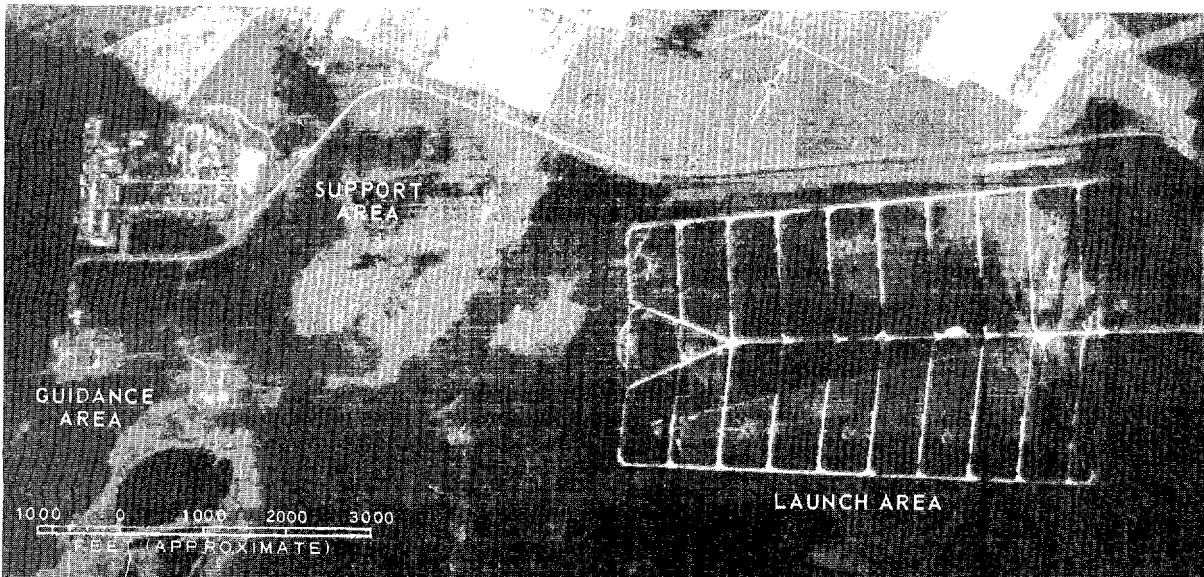


FIGURE 5. MOSCOW SAM SITE C07-1,

NPIC H-6649 (1/64)

MOSCOW SAM SITE C09-1

25X1A

NPIC Target No: 0167-121A

Coords: 55-47N 38-21E

Map Ref: DIA Sheet 0167-5HL (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness.

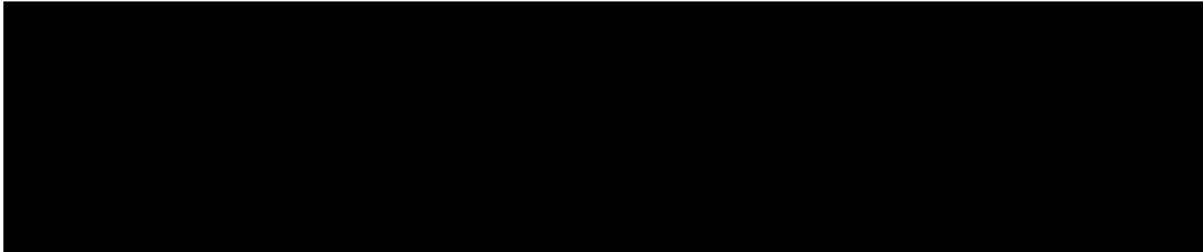
There has been no apparent change in this site since the first clear KEYHOLE coverage, [REDACTED] Cleared areas (Figure 6, Items 1 and 2) were present at that time.

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

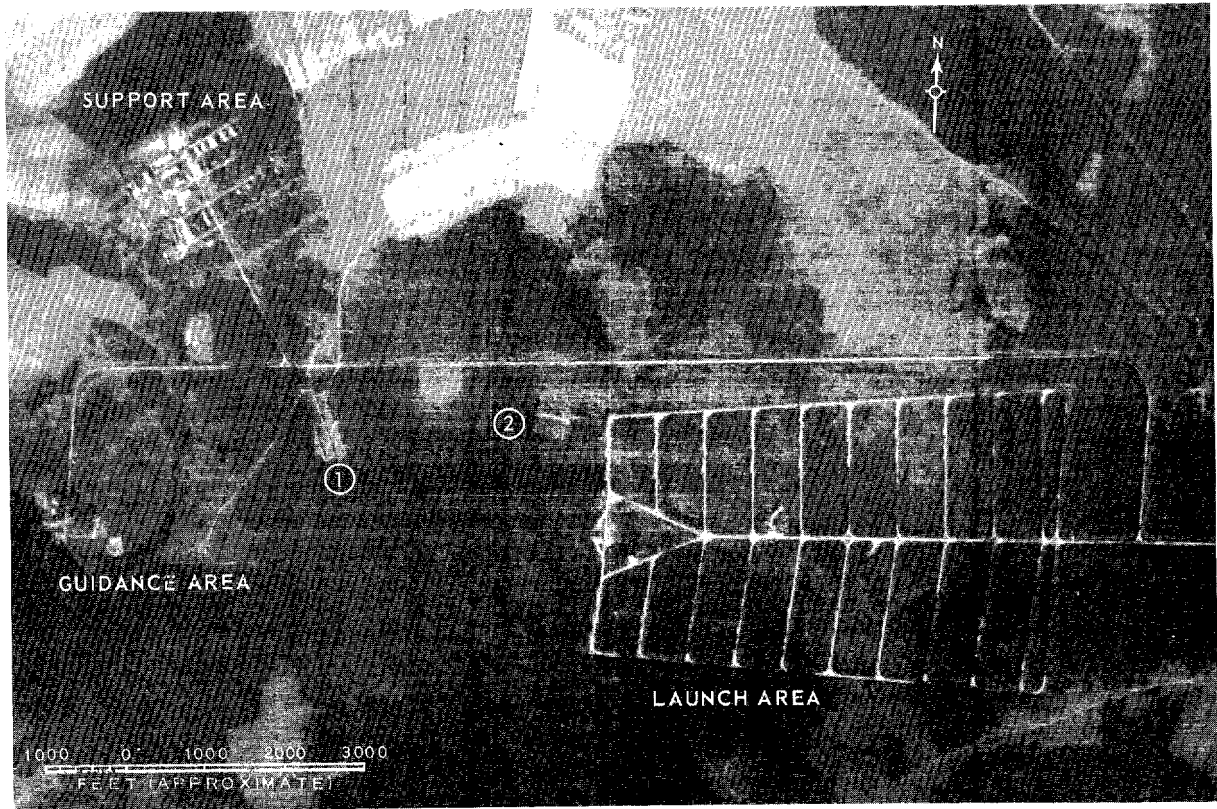


FIGURE 6. MOSCOW SAM SITE C09-1, [REDACTED]

25X1D

MOSCOW SAM SITE E01-1

25X1A

[REDACTED]

Status then: appeared complete, though darkness and haze precluded detailed analysis.

NPIC Target No: 0154-98

Coords: 56-38N 37-41E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

There had been no apparent change in the site through [REDACTED] (Figure 7).

25X1D

25X1D

25X1D

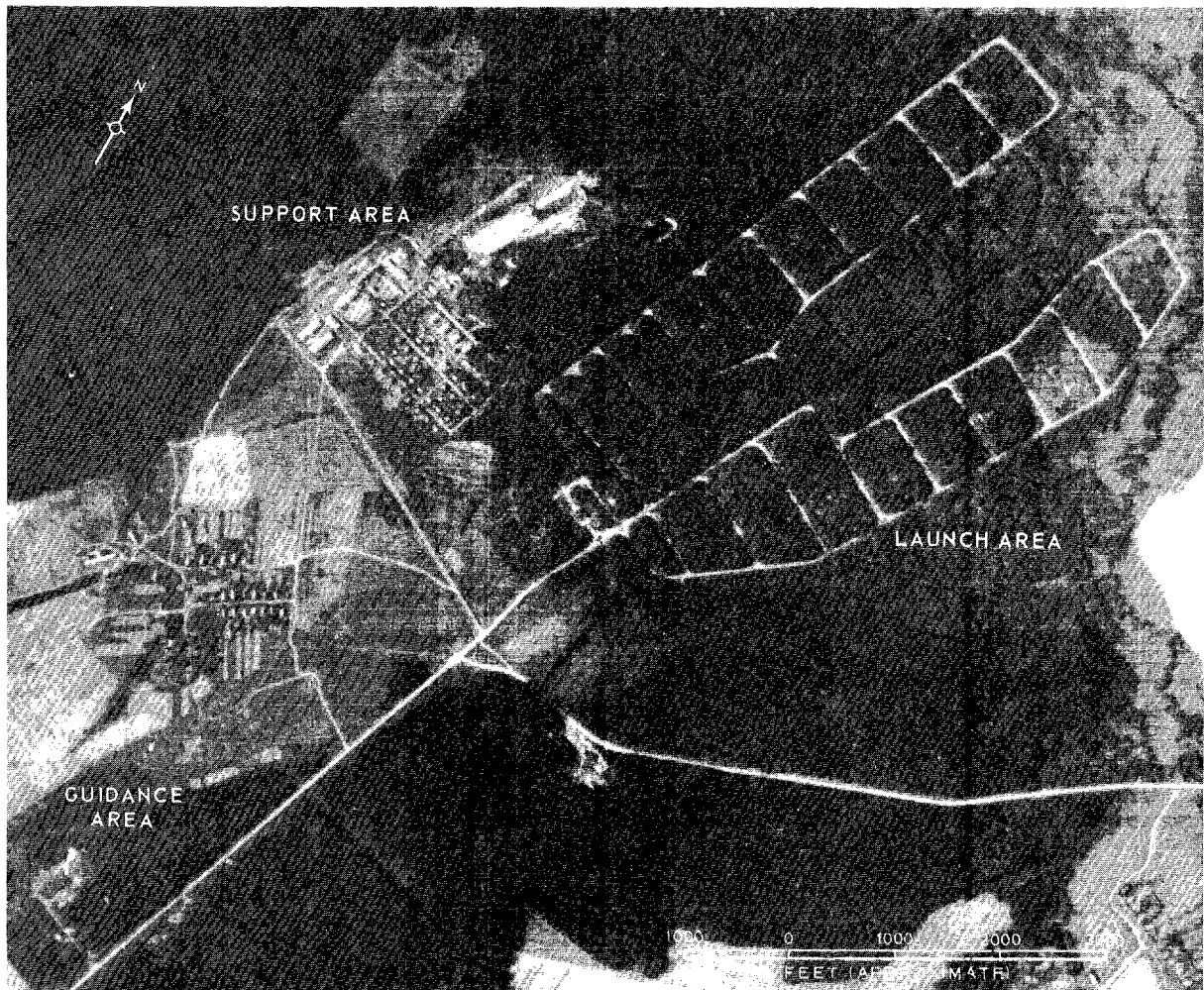


FIGURE 7. MOSCOW SAM SITE E01-1, [REDACTED]

NPIC H-6651 (1/64)

25X1D

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MOSCOW SAM SITE E02-1

25X1A

NPIC Target No: 0154-98A

Coords: 56-28N 37-57E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness.

Between the first clear KEYHOLE coverage of the site, (Figure 8) there had been no apparent change in the site.

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

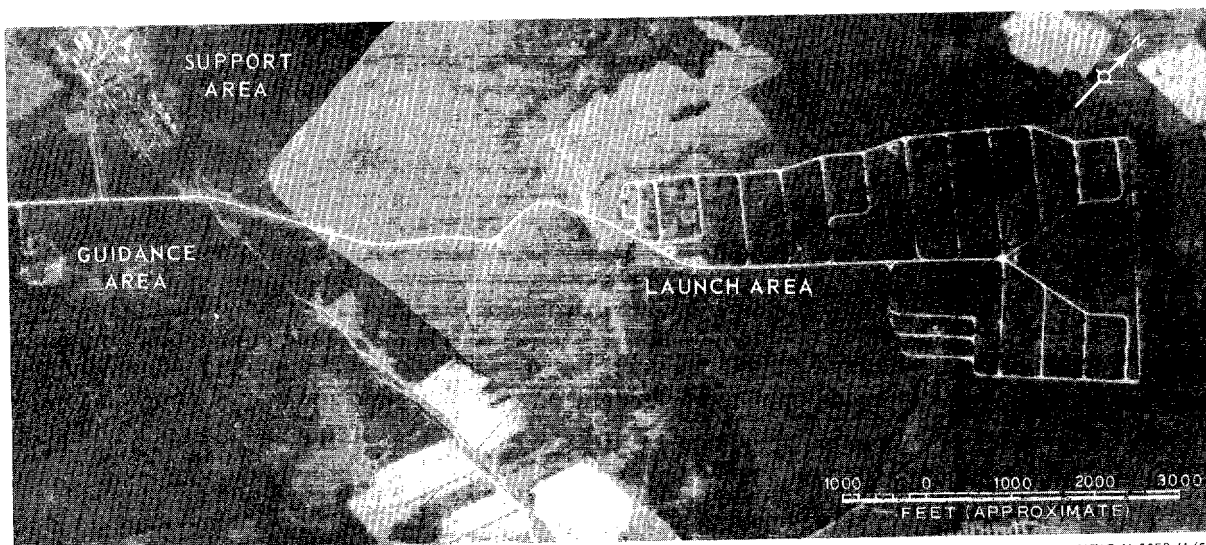


FIGURE 8. MOSCOW SAM SITE E02-1

NPIC H-6652 (1/64)

25X1D

MOSCOW SAM SITE E03-1

25X1A

NPIC Target No: 0154-98B

Coords: 56-22N 38-11E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage:

Status then: site appeared complete, though haze and darkness precluded detailed analysis.

25X1D

Through [REDACTED] (Figure 9) there had been no apparent change since the first clear KEYHOLE coverage [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

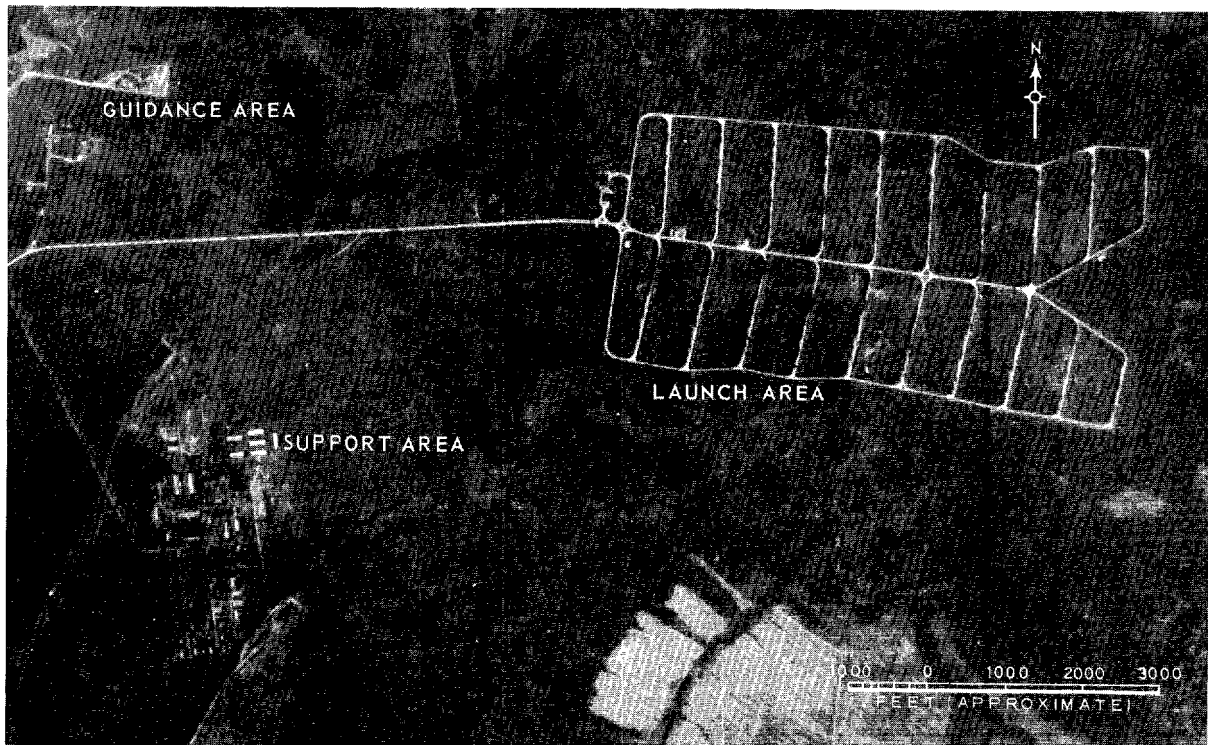
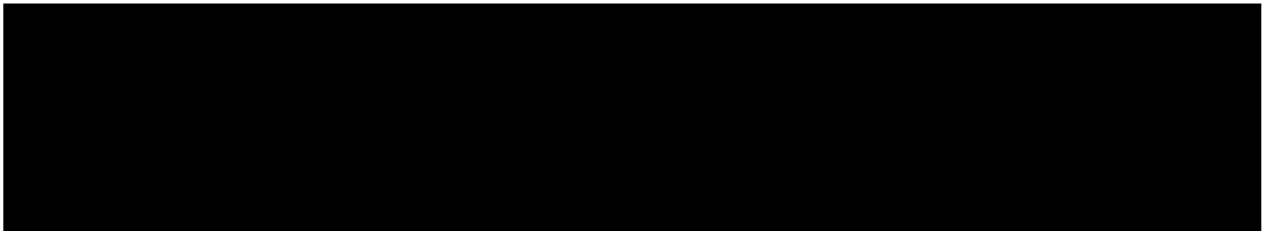


FIGURE 9. MOSCOW SAM SITE E03-1, [REDACTED]

NPIC H-6653 (1/64)

25X1D

MOSCOW SAM SITE E04-1

25X1A

[REDACTED]

NPIC Target No: 0154-98C

Coords: 56-29N 38-23E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness.

First clear KEYHOLE coverage: [REDACTED]

[REDACTED] at which time the site appeared complete.

The guidance area included three clearings containing small buildings (Figure 10, Items 1-3). The guidance area has had no apparent change since. Photography of [REDACTED] showed several unidentified objects (Item 4) in the launch area, and these have not changed since. Between [REDACTED] two generally circular areas of disturbed earth (Item 5) had been constructed in the launch area.

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

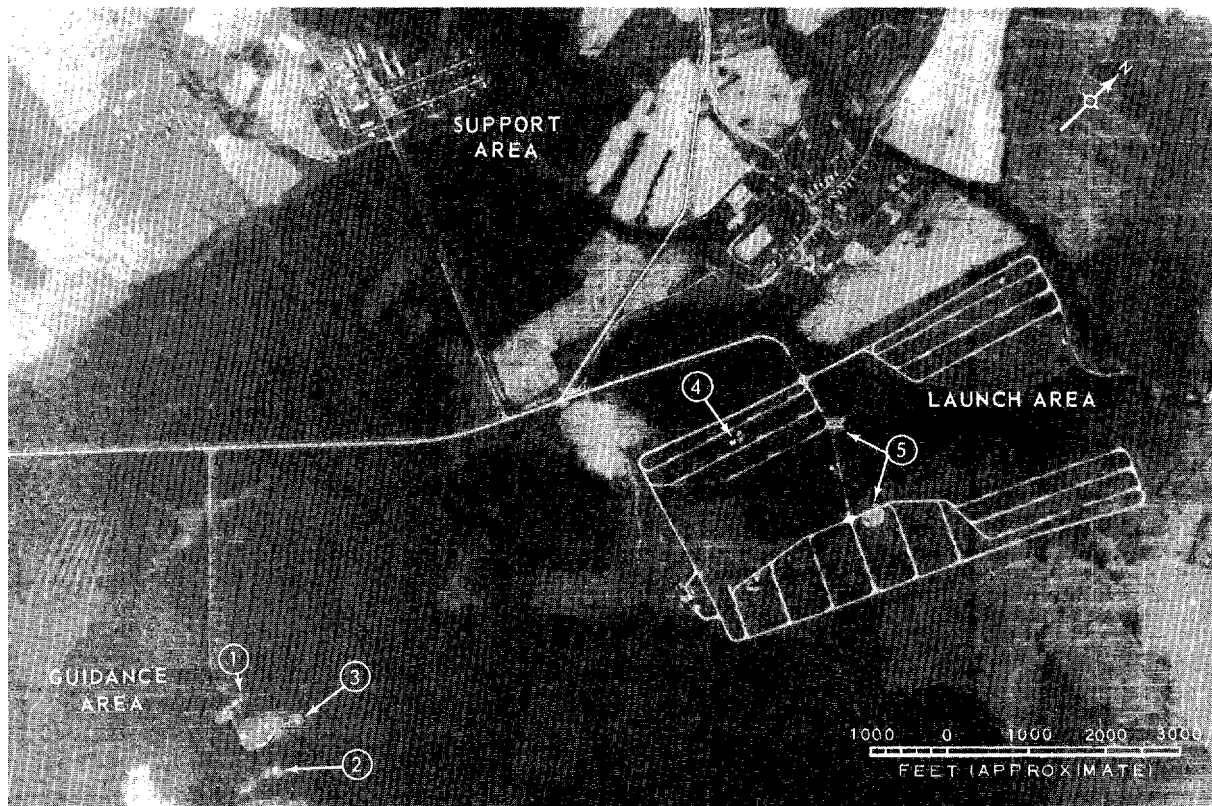


FIGURE 10. MOSCOW SAM SITE E04-1, [REDACTED]

25X1D

25X1D

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MOSCOW SAM SITE E05-1

25X1A

NPIC Target No: 0154-98D

Coords: 56-14N 38-35E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness.

appeared complete in [REDACTED] and a fourth had been completed prior to [REDACTED]

Probable Borrow Pit: A clearing first appeared in [REDACTED] and appeared larger in diameter on photography of [REDACTED]

Access Road: A completed access road parallel to the northern side of the launch area was first visible on photography of [REDACTED]. No apparent change since.

Possible AMM-Associated Facility: From [REDACTED] the quality of photography precluded detailed interpretation, but in [REDACTED] the following construction was evident:

Item 1: A rectangular building 225 by 125 feet and approximately 30 feet high appeared complete. It had an unidentified circular object on its roof.

25X1D

25X1D

25X1D

25X1D

25X1D

First clear KEYHOLE coverage was in [REDACTED] when the site appeared complete. The following changes from a standard SA-1 site have taken place:

Support Area (Figure 11): Two buildings that are each 195 by 40 feet and about 35 feet high, and the foundation for a third of similar size were seen in the southeast corner of the support area in [REDACTED]. The third building

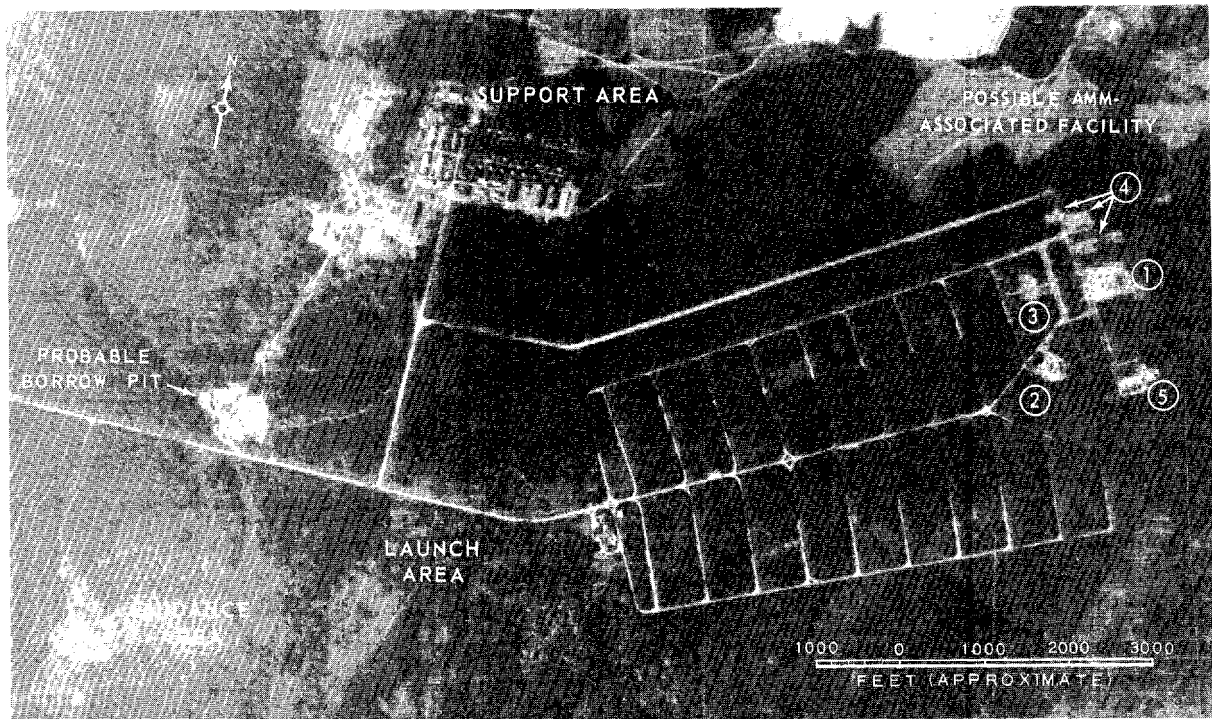


FIGURE 11. MOSCOW SAM SITE E05-1, [REDACTED]

NPIC H-6655 (1/64)

25X1D

NPIC/R-64/64

Item 2: One smaller building, 100 by 100 feet, had an unidentified circular object on its roof.

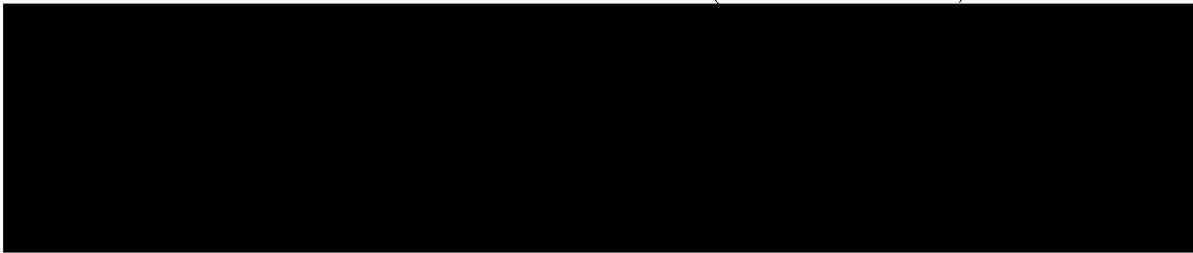
Item 3: Another building, probably similar in dimensions, was under construction.

Item 4: Three cleared and connected areas of unidentified activity contain six small structures and a small circular object.

Item 5: Unidentified structure, 70 by 25 feet.

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D



MOSCOW SAM SITE E06-1

25X1A

[REDACTED]

NPIC Target No: 0154-98E

Coords: 56-07N 38-43E

Map Ref: DIA Sheet 0154-23HL (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness.

First clear KEYHOLE coverage was in [REDACTED] when the site appeared complete and included two clearings (Figure 12). One clearing (Item 1) was 1,830 by 225 feet; the other (Item 2) was around one of the launch area bunkers. There had been no apparent change at the site since [REDACTED]

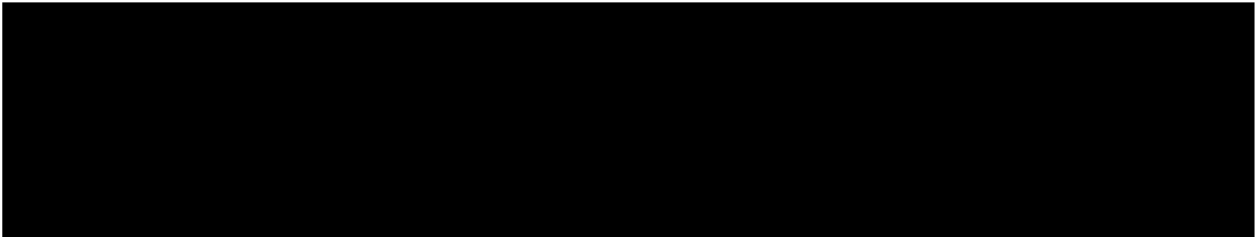
25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

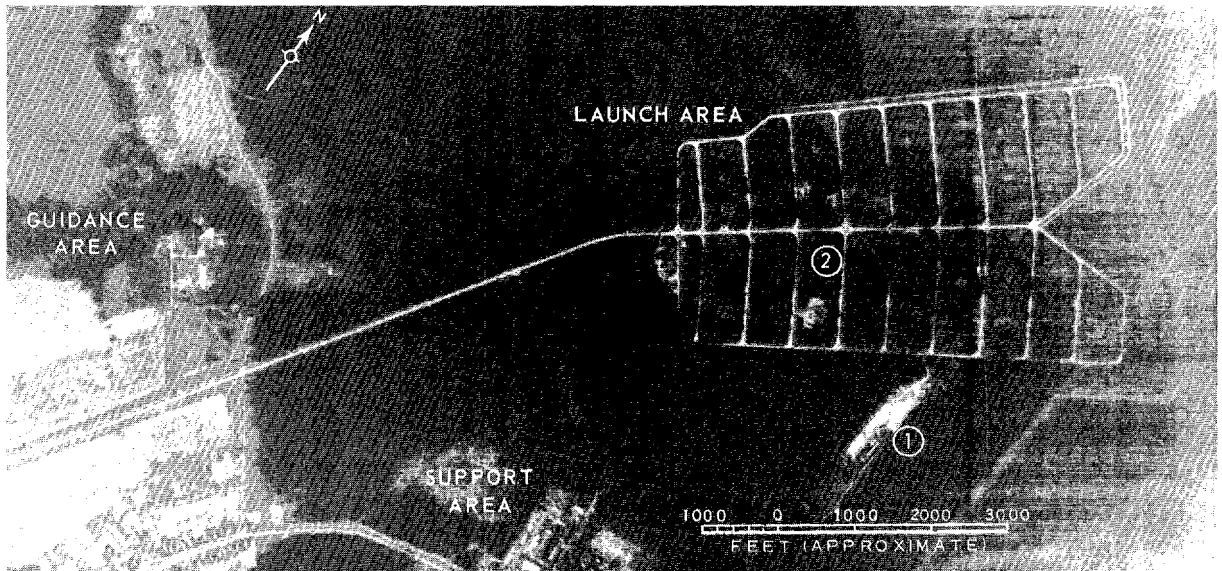


FIGURE 12. MOSCOW SAM SITE E06-1

NPIC H-6656 (1/64)

25X1D

MOSCOW SAM SITE E07-1

25X1A

NPIC Target No: 0154-98F
Coords: 56-01N 38-50E
Map Ref: DIA Sheet 0154-23HL (S)

25X1D
25X1D

First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze and darkness.

First relatively clear KEYHOLE coverage of this site was in [REDACTED]. At that time the site appeared complete and there was a possible building, approximately 790 by 95 feet, located adjacent to the service road, midway between the guidance and launch areas. There had been no apparent change at the site by [REDACTED] (Figure 13).

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

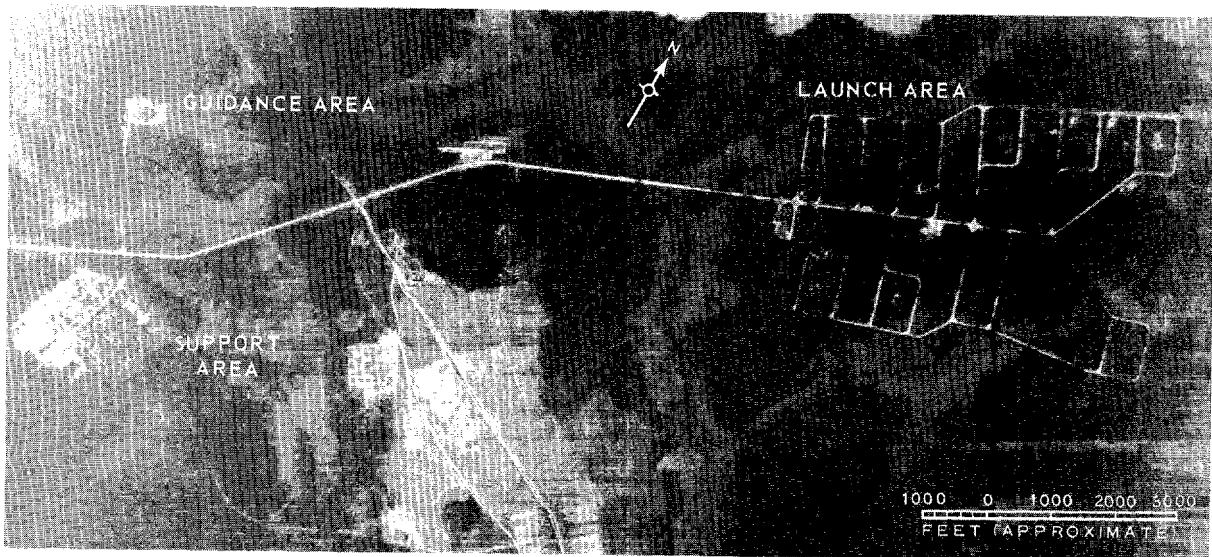
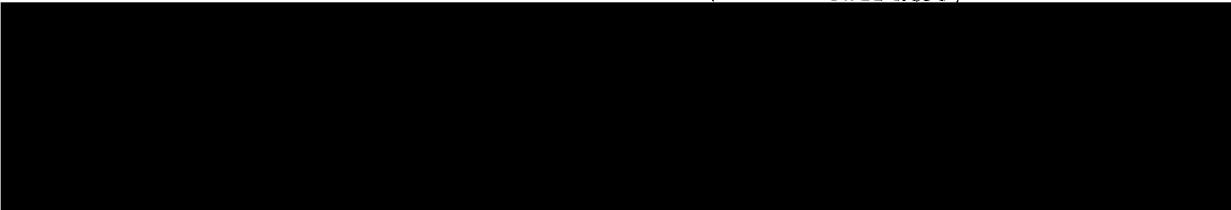


FIGURE 13. MOSCOW SAM SITE E07-1, [REDACTED]

NPIC H-6657 (1/64)

MOSCOW SAM SITE E08-1

25X1A

BE No: [REDACTED]
NPIC Target No: 0167-122
Coords: 55-53N 38-54E
Map Ref: DIA Sheet 0167-5HL (S)

The first relatively clear KEYHOLE coverage of this site was in [REDACTED]. There were three buildings not found in the typical launch area (Figure 14): one building (Item 1) is 70 by 25 feet; the second (Item 2) is 85 by 25 feet; and the third (Item 3) is 65 by 25 feet. There was also an area of disturbed earth, possibly a borrow pit, approximately 1,180 by 980 feet (Item 4). There had been no apparent change in the site between [REDACTED].

25X1D

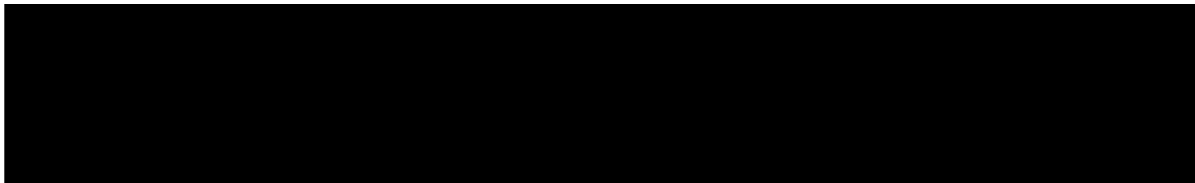
25X1D

First KEYHOLE coverage: [REDACTED]
Status then: undetermined because of haze and darkness.

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

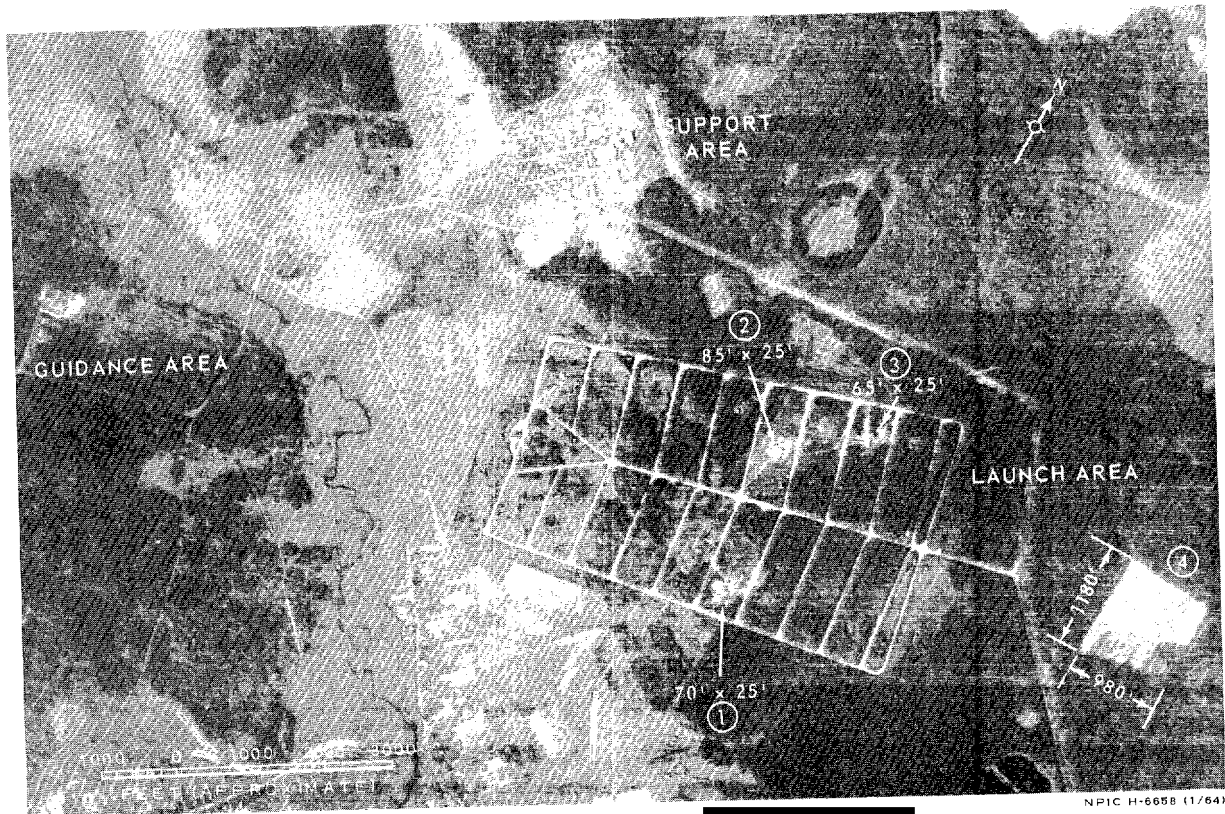


FIGURE 14. MOSCOW SAM SITE E08-1, [REDACTED]

25X1D

NPIC/R-64/64

REFERENCES

REQUIREMENT

CIA. C-RR3-80375

NPIC PROJECT

JN-212/62 (partial answer)

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