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[redacted]

BASIC IMAGERY
INTERPRETATION
REPORT

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

CONSTRUCTION AT SS-11 COMPLEXES

KOSTROMA ICBM COMPLEX
KOZELSK ICBM COMPLEX
PERM ICBM COMPLEX
TEYKOVO ICBM COMPLEX
YEDROVO ICBM COMPLEX

25X1

DEPLOYED STRATEGIC SSM FACILITIES
USSR
APRIL 1970

Declass Review by NIMA/DOD

25X1

TOP SECRET 25X1

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Construction at SS-11 Complexes	UR

UTM COORDINATES	GEOGRAPHIC COORDINATES		BE NUMBER	COMIREX NO.	NIETB NO.
NA	See below	[redacted]	See below	See below	See below

MAP REFERENCE
Various

25X1 [redacted] NEGATION DATE (if required) NA

ICBM Complex	Geographic Coordinates
Kostroma	58-00-12N 041-22-25E
Kozelsk	53-51-30N 035-45-40E
Perm	57-42-41N 056-02-51E
Teykovo	56-55-40N 040-30-20E
Yedrovo	57-51-00N 033-40-00E

[redacted] 25X1

ABSTRACT

Deployment of the Soviet SS-11 missile system continued at the Kostroma, Kozelsk, Perm, Teykovo, and Yedrovo Complexes during 1969. These five complexes contain a total of 414 confirmed type IIID launch sites, of which 86 were identified [redacted] 25X1
25X1 [redacted] the total number of confirmed type IIID launch sites at all ten SS-11 complexes was 794.

Developments at each of the five complexes, a map, and chronology tables providing data on launch sites and other facilities associated with each complex are included in this report.

25X1 This report is current [redacted]

INTRODUCTION

Type IIID launch sites have been deployed at five of the ten SS-11 ICBM complexes
25X1 [redacted] (Table 1). Four of these, Kostroma, Kozelsk, Teykovo, and Yedrovo, are in the western USSR and the fifth complex, Perm, is further east in the Urals (Figure 1).

Each of these complexes (Kostroma, Kozelsk, Perm, Teykovo, and Yedrovo) contains launch facilities for an older missile system as well as for the SS-11, a rail-to-road transfer point with training site, complex support facilities, and a headquarters command and control facility. The Perm, Teykovo, and Yedrovo ICBM Complexes also each have an alternate command and control facility.

BASIC DESCRIPTION

Kostroma ICBM Complex

The Kostroma ICBM Complex (Figure 2 and Table 2) is approximately 165 nautical miles (nm) southeast of Moscow. [1] The complex has eight confirmed type IIID launch groups and seven SS-7 launch sites. This complex now has 79 confirmed type IIID launch
25X1 sites, of which 21 were identified [redacted] These launch sites are contained in eight launch groups, designated I through P. The eighth confirmed launch group (P) was
25X1 identified [redacted] Activity observed only [redacted] consisting of vehicle tracks 25X1
and two small clearings in an area approximately 15 nm east of launch site 60M was designated possible launch site 102Q. If this site is confirmed it will be in the ninth launch group at this complex. Launch groups I, J, K, and L are complete, with the L group
25X1 complete [redacted] Launch groups M and N are in the late stage of construction and launch group O is in the midstage of construction. Only nine launch sites have been identified in launch group P. These were in the midstage of construction when last observed
25X1 [redacted]

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Table 1. Single-Silo Deployment at SS-11 (Type IIID) Complexes, USSR.

Complex	Launch Facilities	Facilities Complete
DROVYANAYA	5 Groups	5 Groups
	50 Sites	50 Sites
	6 Groups	6 Groups
GLADKAYA	60 Sites	60 Sites
	8 Groups	4 Groups
KOSTROMA	79 Sites	50 Sites
	11 Groups	7 Groups
KOZELSK	103 Sites	88 Sites
	9 Groups	9 Groups
OLOVYANNAYA	90 Sites	90 Sites
	7 Groups	6 Groups
PERM	70 Sites	60 Sites
	6 Groups	6 Groups
SVOBODNYY	60 Sites	60 Sites
	7 Groups	3 Groups
TEYKOVO	60 Sites	36 Sites
	12 Groups	12 Groups
TATISHCHEVO	120 Sites	120 Sites
	11 Groups	7 Groups
YEDROVO	102 Sites	70 Sites
	82 Groups	64 Groups
TOTALS	794 Sites	682 Sites

The orientation of the sites in N and P groups differs from the 320-degree orientation of sites in the other groups at this complex. Site orientation at launch group N is 355 degrees and the site orientation of launch group P is [redacted] 25X1

The access road to Kostroma A, the dummy type IIID launch site, was partially 25X1 resurfaced [redacted] and a simulated silo door was added [redacted] No 25X1 significant activity or changes have been observed at any of the seven SS-7 launch sites. The activity and equipment observed in the rail-to-road transfer point appear to be consistent with the level of site construction. The training site (51X) was complete [redacted] 25X1 25X1 [redacted]

Construction material seen in the complex support facilities appears to be sufficient to support the construction of the ninth launch group.

Kozelsk ICBM Complex

The Kozelsk ICBM Complex (Figure 3 and Table 3) is approximately 120 nm south-southwest of Moscow.[2] The complex has 11 confirmed type IIID launch groups and five SS-8 launch sites. This complex now has 103 type IIID launch sites, 25 of which were identified on 25X1 photography [redacted] These launch sites are contained in 11 launch groups, designated G through Q.

The eleventh launch group, Q, presently consisting of two launch sites, was identified 25X1 [redacted] Launch groups G, H, I, J, K, L, and M are complete, with the L and M 25X1 groups completed [redacted] There were nine complete sites in the N group and six 25X1 complete sites in the O group [redacted] When last observed [redacted] 25X1 only three sites in the P group were complete. The third launch site (125Q) in group Q was in the midstage of construction when identified [redacted] 25X1

The orientation of the launch sites in the O and P groups is 350 degrees. Launch site orientation of the other launch groups is 320 degrees. No significant activity or changes were observed at any of the five SS-8 launch sites in the complex. Activity noted in the rail-to-road transfer point was consistent with the level of site construction. The training site 25X1 (46K) was complete [redacted] Construction material observed in the complex support facilities appears to be sufficient to support the current construction program.

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25X1

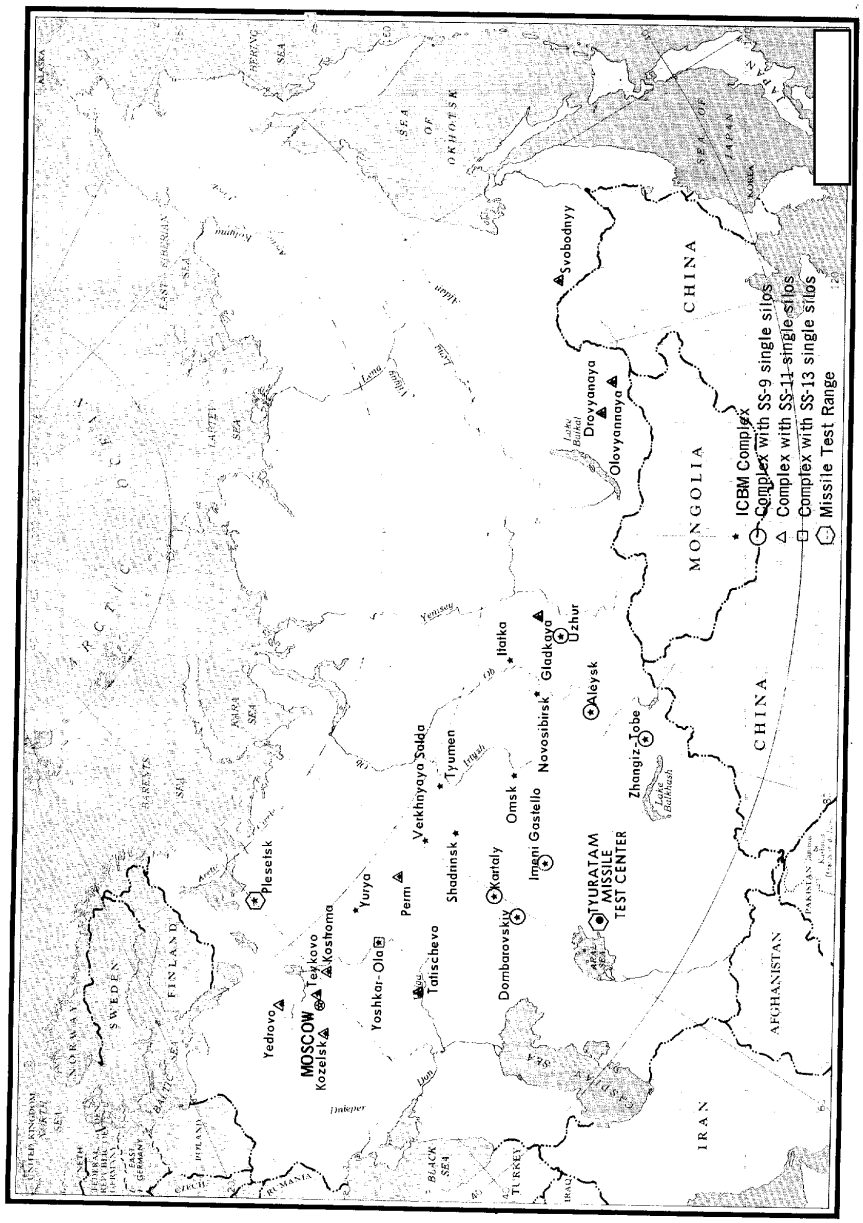

FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES. SS-11 complexes discussed in this report shown in red.

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Perm ICBM Complex

The Perm ICBM Complex (Figure 4 and Table 4) is about 17 nm south of the city of Perm, at the western edge of Siberia. [3] The complex has seven confirmed type IIID launch groups and six SS-7 launch sites. The complex now has 70 confirmed launch sites; ten of
25X1 these were identified on photography [redacted] The launch sites are contained in seven launch groups, designated G through M.

The seventh launch group (M), presently consisting of five launch sites, was identified
25X1 [redacted] Launch groups G, H, I, J, K, and L are complete, with the K group seen
25X1 complete [redacted] and the L group observed complete [redacted] 25X1

Three additional launch sites of the M group were identified [redacted] and the 25X1
25X1 tenth site was identified [redacted] The M group was in the midstage of
25X1 construction when last observed [redacted]

The three latest launch groups, K, L, and M, have a 360-degree site orientation compared to a 320-degree orientation of the four older launch groups.

No significant activity or changes were observed at any of the six SS-7 launch sites.

25X1 [redacted] SS-7 missile was observed being off-loaded from a rail car in the rail-to-road transfer point.

Only moderate amounts of construction material were observed in the complex support facilities; however, this material appears to be sufficient to complete the launch group currently under construction.

The alternate command and control facility, at launch site 49J, was in the midstage of
25X1 construction when last observed [redacted]

Teykovo ICBM Complex

The Teykovo ICBM Complex (Figure 5 and Table 5) is approximately 140 nm northeast of Moscow. [4] This complex has seven confirmed type IIID launch groups and six SS-7 launch sites.

This complex now has 60 confirmed type IIID launch sites, 27 of which have been
25X1 identified [redacted] These launch sites are contained in seven launch groups, designated A through G. The seventh launch group (G) was identified [redacted] 25X1

25X1 Launch group B was complete [redacted] and launch group C was complete [redacted] 25X1
25X1 [redacted] six sites in the D group were complete and four were in the midstage of construction. The tenth launch site (70) of the E group was identified [redacted] 25X1
25X1 [redacted] along with the eighth launch site (69) in the F group. Both were in the midstage of construction.

Launch group G presently consists of only two launch sites, which were in the midstage
25X1 of construction when identified [redacted]

Launch sites in the C and D groups have a site orientation of 350 degrees, as compared with a site orientation of 330 degrees at the other launch groups.

SS-7 missile exercises were observed at launch sites 1 and 5 [redacted] Missiles were erected on the left of launch site 1 and on both pads of launch site 5. On the same day a transporter and six vehicles or pieces of equipment were located near the right pad of launch site 3. 25X1

Construction activity continues in the rail-to-road transfer point. One propellant storage building has been earth mounded and a second probable inspection building is under construction in the SS-11 receiving, inspection, and maintenance facility. The training site (61X) was in the midstage of construction when last observed [redacted] 25X1

The amount of construction material visible in the complex support facilities appears to be sufficient to complete the launch groups under construction. The alternate command and control facility, at launch site 37D, was in the early stage of construction when last observed [redacted] 25X1

Yedrovo ICBM Complex

The Yedrovo ICBM Complex (Figure 6 and Table 6) is approximately 180 nm northwest of Moscow. [5] The complex has 11 confirmed type IIID launch groups and eight SS-7 launch sites. This complex now has 102 confirmed type IIID launch sites, three of which were identified on photography [redacted] The launch sites are contained in 11 launch groups, designated I through S. The eleventh group (S) was identified [redacted] 25X1 25X1

Launch groups I, J, K, L, M, N, and O are complete, with the O group completed [redacted] 25X1 25X1 two launch sites in the P group and three launch sites in the Q group were observed in the late stage of construction. Six launch sites in the R group were in the midstage of construction [redacted] The second launch site in the S group was identified [redacted] The stage of construction of launch sites 123S and 125S is undetermined. All launch groups except the S group now have the full complement of ten launch sites. 25X1 25X1

Launch site orientation in the N, O, P, Q, and R groups is 350 degrees, compared with 315 degrees for the other launch groups in the complex.

No significant activity or changes have been observed at any of the eight SS-7 launch sites.

The large rectangular building under construction in the propellant handling facility of the rail-to-road transfer point is in the final stage of construction [redacted] the amount of construction material in the railhead and storage area of the complex support facilities appeared to be sufficient to complete the launch groups under construction. The alternate command and control facility, between launch sites 27J and 34J, remains under construction. 25X1

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25X1 25X1 25X1 25X1 25X1 25X1

Table 2. Data on Facilities at the Kostroma ICBM Complex.

Launch Site & Group	Type	Azimuth	Geographic Coords Lat Long	200 Chart	Approx Elevation Meters	Approx Elevation Feet
Headquarters command & control			57-46-10N 041-01-09E	14HL	137	450
Complex support facilities			57-46-26N 041-00-55E	14HL	137	450
Rail-to-road transfer point			57-50-52N 041-14-45E	14HL	152	500
Training site Six	HID		57-51-20N 041-14-11E	14HL	152	500
Dummy site Kostroma A	HID		57-58N 041-15E	14HL	122	400
Transmitting facility			57-41-25N 041-04-30E	14HL		
HF cosmo receiving fac			57-52-38N 041-15-40E	14HL		
1	IIB		58-01-41N 041-21-29E	14HL	137	450
2	IIIB		58-02-19N 041-05-56E	14HL	114	375
3	IIB		57-58-50N 041-05-33E	14HL	122	400
4	IIB		58-05-21N 041-39-26E	14HL	129	425
5	IIIA		57-57-36N 041-14-32E	14HL	137	450
6	IID		57-55-25N 041-09-43E	14HL	129	425
7	IID		58-06-09N 041-31-55E	14HL	114	375
Group I						
9I	HID	325	57-53-48N 041-13-21E	14HL	122	400
10I	HID	325	57-49-53N 041-09-49E	14HL	122	400
21I*	HID	325	57-51-10N 041-16-38E	14HL	137	450
22I	HID	325	57-53-36N 041-19-27E	14HL	137	450
23I	HID	325	57-53-55N 041-06-53E	14HL	139	450
24I	HID	325	57-49-28N 041-09-03E	14HL	152	500
26I	HID	325	57-47-41N 041-14-22E	14HL	129	425
30I	HID	325	57-49-11N 041-02-18E	14HL	137	450
31I	HID	325	57-50-06N 041-29-21E	14HL	137	450
33I	HID	325	57-46-46N 041-24-48E	14HL	137	450
Group J						
12J*	HID	320	58-06-20N 041-35-11E	14HL	114	375
13J	HID	320	58-08-51N 041-38-09E	14HL	122	400
14J	HID	320	58-07-07N 041-42-35E	14HL	129	425
15J	HID	320	58-08-42N 041-39-28E	14HL	129	425
16J	HID	320	58-09-25N 041-22-54E	14HL	114	375
17J	HID	320	58-06-36N 041-29-37E	14HL	114	375
18J	HID	320	58-06-26N 041-26-16E	14HL	114	375
19J	HID	320	58-04-22N 041-28-22E	14HL	114	375
28J	HID	320	58-00-14N 041-37-12E	14HL	129	425
32J	HID	320	58-03-37N 041-32-45E	14HL	122	400
Group K						
34K	HID		57-43-38N 041-11-44E	14HL	122	400
35K	HID		57-49-30N 041-05-39E	14HL	114	375
36K	HID		57-41-53N 041-17-01E	14HL	114	375
37K	HID		57-39-19N 041-03-45E	14HL	122	400
38K*	HID		57-59-24N 041-10-00E	14HL	122	400
39K	HID		57-37-43N 041-18-38E	14HL	129	425
41K	HID		57-35-22N 041-10-21E	14HL	122	400
42K	HID		57-32-34N 041-15-58E	14HL	122	400
43K	HID		57-36-23N 041-25-05E	14HL	122	400
53K	HID		57-40-16N 041-23-19E	14HL	137	450
Group L						
47L	HID		58-02-44N 041-21-42E	14HL	129	425
48L*	HID		57-59-26N 041-19-00E	14HL	129	425
49L	HID		58-01-32N 041-26-41E	14HL	129	425
50L	HID		57-56-44N 041-22-22E	14HL	129	425
52L	HID		57-56-32N 041-16-41E	14HL	129	425
54L	HID		58-01-26N 041-05-48E	14HL	114	375
55L	HID		58-00-30N 041-11-03E	14HL	129	425
56L	HID		58-01-51N 041-14-43E	14HL	129	425
57L	HID		57-57-12N 041-06-53E	14HL	122	400
58L	HID		57-58-15N 041-28-54E	14HL	129	425
Group M						
60M	HID	320	57-51-32N 041-44-51E	14HL	129	425
61M	HID	320	57-53-47N 041-33-34E	14HL	129	425
62M	HID	320	57-57-16N 041-44-28E	14HL	129	425
63M	HID	320	57-51-05N 041-37-43E	14HL	129	425
64M	HID	320	57-54-53N 041-49-36E	15HL	129	425
65M	HID	320	57-54-11N 041-40-33E	14HL	129	425
72M	HID	320	57-46-14N 041-39-36E	15HL	152	500
76M	HID	320	57-48-12N 041-48-45E	15HL	152	500
78M	HID	320	57-50-37N 041-51-54E	15HL	152	500
83M	HID	320	57-48-20N 041-53-35E	15HL	152	500
Group N						
66N	HID	355	58-17-06N 041-59-09E	14HL	129	425
67N	HID	355	58-20-22N 041-59-06E	14HL	129	425
68N	HID	355	58-16-24N 041-44-59E	14HL	122	400
69N	HID	355	58-12-43N 041-45-14E	14HL	122	400
70N	HID	355	58-10-38N 041-43-36E	14HL	122	400
74N	HID	355	58-11-47N 041-50-10E	14HL	137	450
75N	HID	355	58-14-20N 041-34-21E	14HL	137	450
77N	HID	355	58-11-53N 041-37-39E	14HL	129	425
86N	HID	355	58-18-04N 041-33-48E	14HL	122	400
88N	HID	355	58-15-40N 041-28-07E	14HL	122	400
Group O						
71O	HID	320	58-00-38N 042-04-34E	15HL	129	425
79O	HID	320	57-57-38N 041-54-09E	15HL	152	500
80O	HID	320	58-01-11N 041-38-14E	15HL	122	400
81O	HID	320	57-59-39N 042-05-51E	15HL	122	400
82O	HID	320	58-00-41N 042-11-06E	15HL	122	400
89O	HID	320	57-56-39N 042-02-12E	15HL	122	400
84O	HID	320	58-00-13N 041-51-35E	15HL	122	400
90O	HID	320	58-06-02N 042-04-50E	15HL	122	400
92O	HID	320	58-06-05N 042-06-42E	15HL	122	400
93O	HID	320	58-08-20N 042-11-50E	15HL	122	400
Group P						
87P	HID		57-31-49N 041-33-42E	19HL	122	400
88P	HID		57-29-18N 041-40-24E	19HL	122	400
94P	HID		57-27-14N 041-35-15E	19HL	122	400
95P	HID		57-30-36N 041-25-10E	19HL	122	400
96P	HID		57-35-54N 041-26-18E	19HL	122	400
98P	HID		57-37-50N 041-34-07E	19HL	122	400
99P	HID		57-37-13N 041-28-36E	14HL	122	400
100P	HID		57-40-18N 041-29-52E	14HL	122	400
101P	HID		57-35-24N 041-37-14E	19HL	122	400
Group Q						
102Q (Poon)	HID		57-50-55N 042-11-25E	15HL	122	400

*Control site

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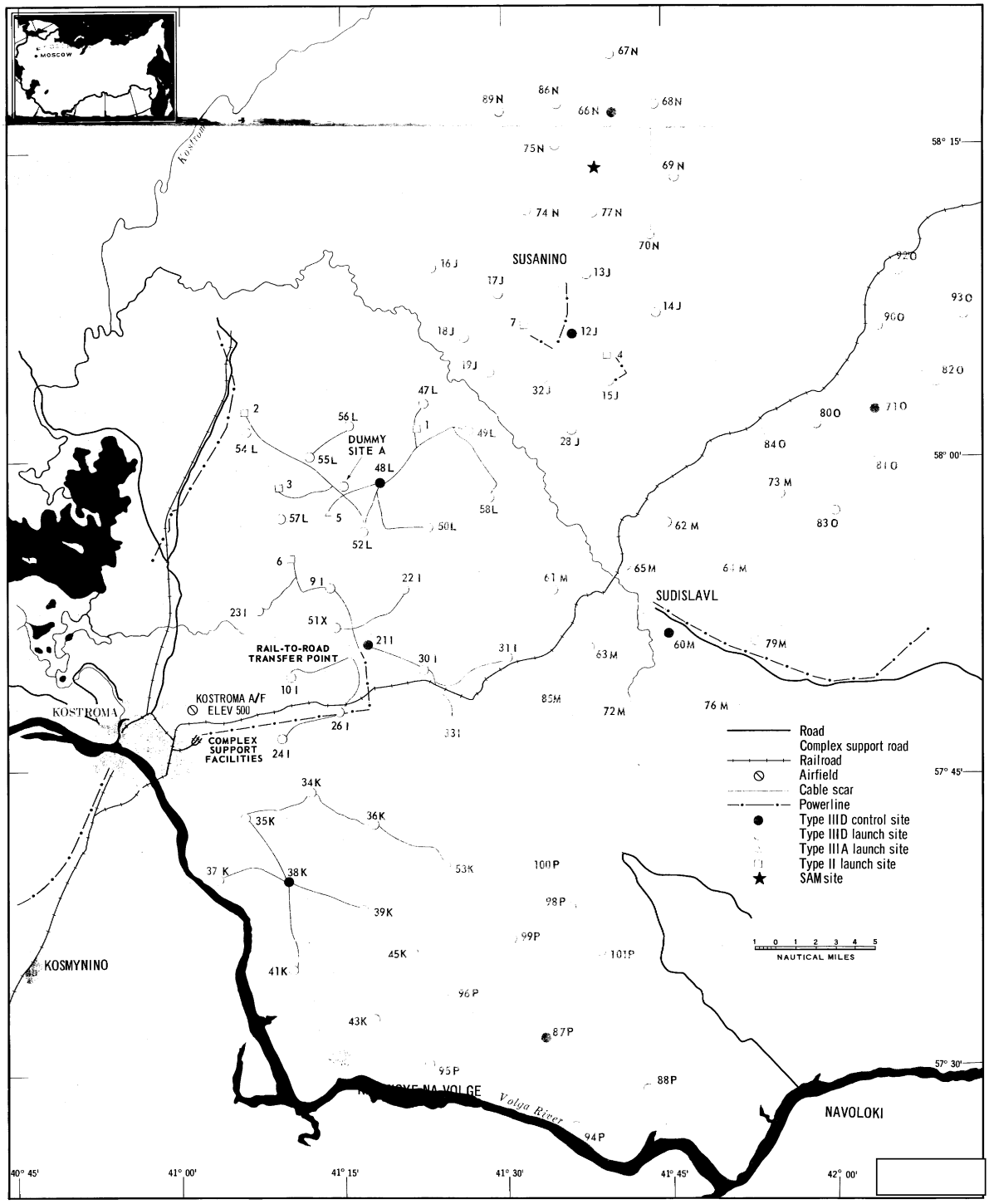

FIGURE 2. KOSTROMA ICBM COMPLEX

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25X1 [redacted]

25X1 25X1 25X1 25X1 25X1 25X1

Table 3. Data on Facilities at the Kozelsk ICBM Complex.

Launch Site & Group	Type	Azimuth	Geographic Coords Lat Long	200 Chart	Approx Elevation Meters Feet
Kozelsk ICBM Complex			53-51-30N 035-45-40E	14HL	152 500
Headquarters command & control				14H	
Complex support fac			54-02-30N 035-46-41E	14HL	152 500
			53-46-38N 035-48-10E	14HL	152 500
Rail-to-road transfer point			53-56-22N 035-46-58E	14HL	152 500
Training site 46X	HID		53-16-30N 035-42-49E	14HL	168 550
			54-03-54N 035-46-23E		
Receiving fac			54-16-30N 036-08-13E		
Transmitting fac					
2	HC	305	53-48-38N 035-46-14E	14HL	228 750
3	HC	305	53-54-28N 035-45-01E	14HL	182 600
4	HC	305	53-53-54N 035-5-11E	14HL	213 700
5	HHB	305	53-5-03N 035-41-13E	14HL	213 700
6	HHB	305	53-41-00N 035-38-42E	14HL	213 700
Group G					
7G*	HID	320	53-47-55N 035-48-15E	14HL	213 700
8G	HID	320	53-48-40N 035-53-22E	14HL	213 700
9G	HID	320	53-44-02N 035-03-23E	14HL	198 650
10G	HID	320	53-49-40N 035-41-34E	14HL	182 600
11G	HID	320	53-53-02N 035-41-34E	14HL	182 600
12G	HID	320	53-5-32N 035-47-49E	14HL	213 700
22G	HID	320	53-49-37N 035-42-01E	14HL	213 700
23G	HID	320	53-49-56N 035-46-41E	14HL	213 700
25G	HID	320	53-44-58N 035-53-48E	14HL	213 700
26G	HID	320	53-44-44N 035-46-23E	14HL	213 700
Group H					
15H*	HID	320	54-03-11N 035-37-29E	14HL	213 700
16H	HID	320	54-04-49N 035-29-02E	14HL	213 700
17H	HID	320	53-56-15N 035-22-30E	13HL	198 650
18H	HID	320	53-59-36N 035-20-37E	13HL	213 700
19H	HID	320	54-01-07N 035-32-31E	14HL	213 700
20H	HID	320	53-57-47N 035-27-43E	14HL	213 700
28H	HID	320	53-56-41N 035-31-28E	14HL	213 700
29H	HID	320	54-02-18N 035-40-36E	14HL	198 650
30H	HID	320	53-59-46N 035-38-56E	14HL	213 700
31H	HID	320	54-02-55N 035-19-15E	13HL	264 800
Group I					
32I*	HID	320	53-53-51N 035-53-25E	14HL	213 700
33I	HID	320	53-51-39N 035-55-07E	14HL	244 800
34I	HID	320	53-52-17N 035-59-42E	14HL	213 700
35I	HID	320	53-54-55N 035-48-11E	14HL	182 600
36I	HID	320	53-57-08N 035-15-04E	14HL	182 600
37I	HID	320	53-58-07N 035-59-22E	14HL	244 800
38I	HID	320	54-01-15N 036-01-11E	14HL	213 700
40I	HID	320	53-55-14N 036-02-16E	14HL	213 700
41I	HID	320	53-59-57N 035-54-43E	14HL	213 700
43I	HID	320	54-09-16N 035-54-16E	14HL	152 500
Group J					
43J	HID	320	54-05-32N 035-45-26E	14HL	213 700
44J	HID	320	54-09-42N 035-47-01E	14HL	182 600
45J	HID	320	54-06-40N 035-52-12E	14HL	168 550
48J*	HID	320	54-15-58N 035-39-19E	14HL	182 600
49J	HID	320	54-04-52N 035-37-01E	14HL	193 700
50J	HID	320	54-07-55N 035-32-58E	14HL	213 700
51J	HID	320	54-12-38N 035-32-22E	14HL	213 700
52J	HID	320	54-15-18N 035-34-59E	14HL	213 700
53J	HID	320	54-07-43N 035-43-06E	14HL	198 650
54J	HID	320	54-13-30N 035-41-34E	14HL	213 700
Group K					
55K*	HID	325	54-27-43N 035-32-30E	9HL	213 700
57K	HID	325	54-27-34N 035-40-53E	9HL	213 700
58K	HID	325	54-25-34N 035-36-59E	9HL	213 700
59K	HID	325	54-21-43N 035-29-16E	14HL	213 700
60K	HID	325	54-26-37N 035-27-42E	9HL	213 700
61K	HID	325	54-28-03N 035-26-37E	9HL	228 750
62K	HID	325	54-19-16N 035-34-41E	14HL	213 700
71K	HID	325	54-23-54N 035-22-43E	8HL	213 700
83K	HID	325	54-30-48N 035-34-39E	9HL	198 650
87K	HID	325	54-27-08N 035-28-19E	8HL	198 650
Group L					
63L*	HID	320	53-45-06N 035-39-26E	14HL	213 700
64L	HID	320	53-47-38N 035-36-16E	14HL	213 700
65L	HID	320	53-44-38N 035-34-18E	14HL	213 700
66L	HID	320	53-40-57N 035-39-40E	14HL	213 700
67L	HID	320	53-42-02N 035-34-32E	13HL	213 700
74L	HID	320	53-48-18N 035-31-53E	13HL	213 700
75L	HID	320	53-50-27N 035-27-37E	14HL	182 600
78L	HID	320	53-45-39N 035-21-05E	13HL	213 700
79L	HID	320	53-54-06N 035-06-09E	14HL	182 600
85L	HID	320	53-51-49N 035-35-52E	14HL	168 550
Group M					
68M	HID	320	54-19-13N 035-31-32E	13HL	213 700
69M*	HID	320	54-17-28N 035-13-34E	13HL	213 700
70M	HID	320	54-16-57N 035-06-52E	13HL	213 700
72M	HID	320	54-21-58N 035-16-36E	13HL	213 700
73M	HID	320	54-21-48N 035-09-04E	13HL	213 700
76M	HID	320	54-14-40N 035-15-24E	13HL	213 700
81M	HID	320	54-10-53N 035-17-42E	13HL	213 700
84M	HID	320	54-13-28N 035-04-15E	13HL	213 700
86M	HID	320	54-11-38N 035-09-35E	13HL	228 750
88M	HID	320	54-17-51N 035-26-58E	14HL	213 700
Group N					
89N	HID		53-59-16N 035-15-05E	13HL	182 600
90N	HID		53-58-03N 035-04-31E	12HL	198 650
91N	HID		54-01-19N 034-58-15E	13HL	182 600
92N*	HID		53-59-33N 035-09-14E	13HL	213 700
93N	HID		53-55-28N 035-01-26E	13HL	182 600
94N	HID		54-01-09N 035-06-07E	12HL	182 600
95N	HID		54-02-55N 035-11-17E	13HL	213 700
96N	HID		53-56-43N 035-12-08E	13HL	213 700
108N	HID		53-58-18N 034-58-59E	13HL	182 600
111N	HID		53-56-02N 035-07-54E	13HL	213 700
Group O					
97O*	HID	350	54-21-38N 036-02-52E	14HL	213 700
98O	HID	350	54-24-40N 036-02-53E	9HL	182 600
99O	HID	350	54-23-21N 036-07-09E	14HL	182 600
102O	HID	350	54-18-24N 036-01-07E	14HL	213 700
103O	HID	350	54-16-57N 035-55-53E	14HL	213 700
104O	HID	350	54-18-17N 035-45-04E	14HL	213 700
105O	HID	350	54-21-27N 035-46-00E	14HL	213 700
106O	HID	350	54-21-58N 035-54-31E	14HL	182 600
109O	HID	350	54-24-08N 035-57-24E	9HL	182 600
110O	HID	355	54-24-03N 035-49-57E	14HL	182 600
Group P					
112P	HID	350	54-30-26N 035-46-30E	9HL	182 600
113P	HID	350	54-30-06N 035-53-53E	9HL	213 700
114P	HID	350	54-32-18N 035-57-32E	9HL	182 600
115P	HID	350	54-35-13N 035-52-18E	8HL	182 600
116P	HID	350	54-31-30N 035-49-29E	8HL	182 600
118P	HID	350	54-34-53N 035-42-22E	9HL	152 500
119P	HID	350	54-33-39N 035-49-21E	8HL	213 700
120P	HID	350	54-37-08N 035-46-31E	9HL	182 600
121P	HID	350	54-36-11N 035-53-19E	8HL	182 600
122P	HID	350	54-29-29N 035-59-58E	9HL	182 600
Group Q					
123Q	HID		54-04-29N 034-56-37E	13HL	213 700
124Q	HID		54-05-38N 035-05-30E	13HL	213 700
125X	HID		54-07-21N 034-59-40E	13HL	182 600

*Control site.

25X1 [redacted]

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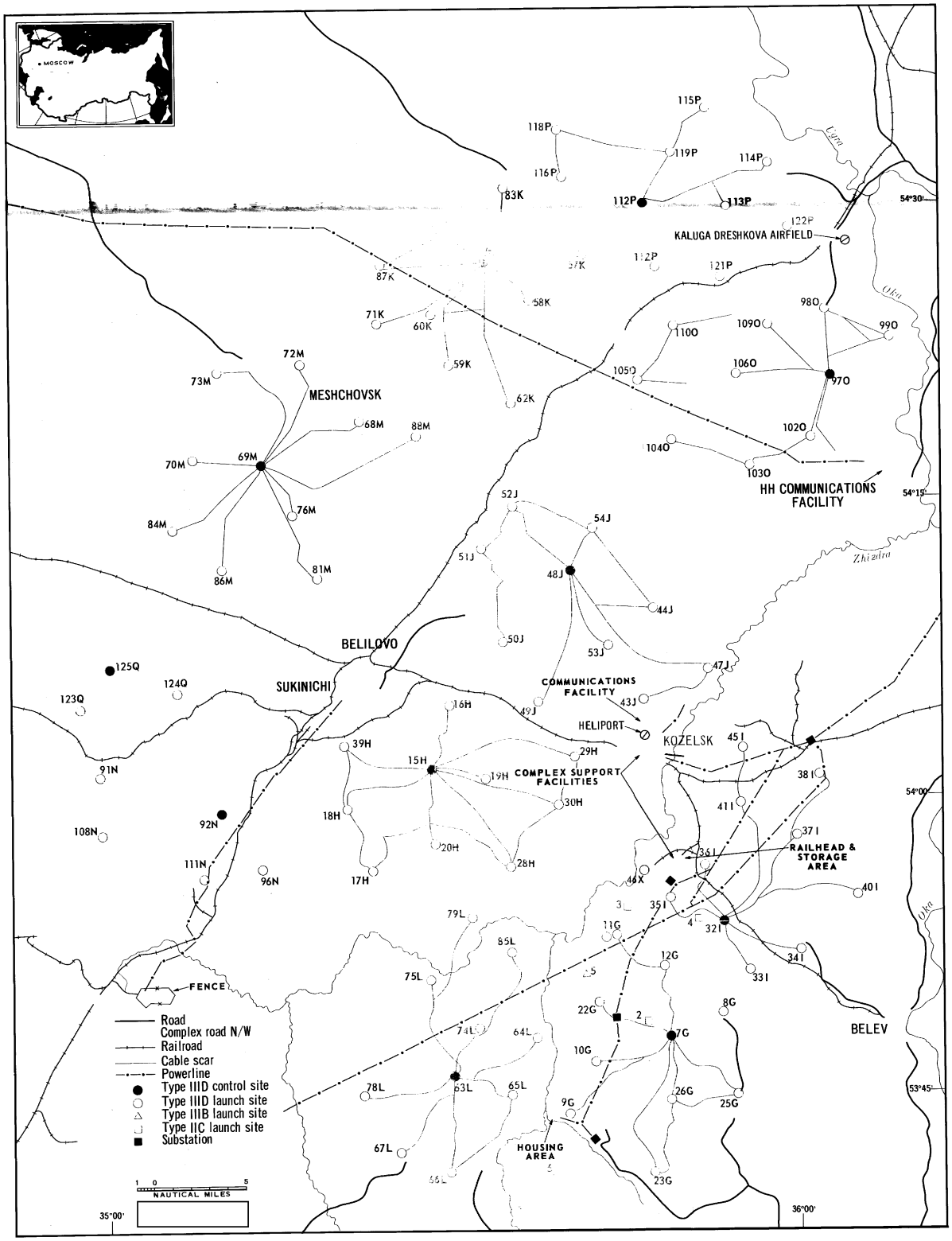

FIGURE 3. KOZELSK ICBM COMPLEX

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Table 4. Data on Facilities at the Perm ICBM Complex.

Launch Site & Group	Type	Azimuth	Geographic Coords Lat Long	200 Chart	Approx Elevation Meters	Feet
Hq command & control			57-44-09N 56-18-43E	11HL	213	700
Complex support facility			57-42-06N 56-18-38E	11HL	244	800
Rail-to-road transfer point			57-41-59N 56-17-11E	11HL	244	800
60X Trng site	IID		57-41-51N 56-16-46E	11HL	244	800
Alternate command & cont			57-31-26N 56-43-56E			
Transmitting facility			57-56-37N 56-19-29E	13HL		
25X1						
1	IIB	315	57-41-11N 056-12-14E	11HL	304	1,000
2	IIB	315	57-43-54N 055-55-12E	11HL	274	900
3	IIB	315	57-37-26N 056-07-39E	11HL	244	800
4	IIA	315	57-41-27N 056-04-16E	11HL	304	1,000
5	IID	315	57-41-50N 055-17-23E	11HL	244	800
6	IID	315	57-45-00N 056-00-15E	11HL	304	1,000
Group G						
7G	IID	320	57-42-30N 056-00-32E	11HL	244	800
11G	IID	320	57-43-51N 056-06-45E	11HL	366	1,200
12G	IID	320	57-45-57N 056-10-46E	11HL	244	800
12G*	IID	320	57-44-43N 056-16-31E	11HL	213	700
15G	IID	320	57-41-53N 056-11-24E	11HL	244	800
18G	IID	320	57-42-29N 056-21-36E	11HL	213	700
19G	IID	320	57-41-49N 056-15-38E	11HL	274	900
20G	IID	320	57-39-47N 056-07-57E	11HL	182	600
32G	IID	320	57-40-43N 056-23-21E	11HL	182	600
35G	IID	320	57-45-19N 056-19-30E	11HL	213	700
Group H						
29H*	IID	320	57-50-05N 056-27-58E	11HL	152	500
30H	IID	320	57-49-50N 056-35-20E	11HL	152	500
31H	IID	320	57-47-03N 056-34-32E	11HL	152	500
32H	IID	320	57-48-49N 056-39-08E	11HL	152	500
33H	IID	320	57-52-41N 056-43-38E	11HL	122	400
34H	IID	320	57-49-47N 056-44-50E	11HL	152	500
36H	IID	320	57-48-18N 056-23-44E	11HL	168	550
40H	IID	320	57-49-18N 056-17-41E	11HL	152	500
42H	IID	320	57-52-45N 056-35-13E	11HL	152	500
59H	IID	320	57-51-45N 056-22-55E	11HL	182	600
Group I						
8I	IID	320	57-42-38N 055-54-49E	11HL	304	1,000
10I*	IID	320	57-43-04N 055-50-48E	11HL	274	900
16I	IID	320	57-45-06N 055-47-09E	11HL	244	800
17I	IID	320	57-46-20N 055-45-44E	11HL	244	800
22I	IID	320	57-43-29N 055-38-44E	11HL	152	500
25I	IID	320	57-50-13N 055-48-82E	11HL	213	700
38I	IID	320	57-47-48N 055-45-36E	11HL	244	800
39I	IID	320	57-45-27N 055-43-44E	11HL	244	800
41I	IID	320	57-40-30N 055-43-57E	11HL	244	800
43I	IID	320	57-40-59N 055-38-38E	11HL	182	600
Group J						
45J	IID	320	57-30-59N 056-37-08E	16HL	182	600
46J	IID	320	57-34-03N 056-36-18E	16HL	182	600
47J	IID	320	57-26-33N 056-46-53E	16HL	152	500
48J	IID	320	57-34-26N 056-49-49E	16HL	152	500
49J*	IID	320	57-31-32N 056-44-08E	16HL	152	500
51J	IID	320	57-29-16N 056-47-54E	16HL	152	500
52J	IID	320	57-36-59N 056-35-15E	11HL	152	500
57J	IID	320	57-27-24N 056-36-31E	16HL	182	600
58J	IID	320	57-29-32N 056-34-08E	16HL	182	600
61J	IID	320	57-28-44N 056-42-18E	16HL	152	500
Group K						
62K	IID		57-37-48N 056-40-29E	11HL	152	500
63K	IID		57-40-54N 056-34-01E	11HL	182	600
64K	IID		57-43-25N 056-35-10E	11HL	213	700
66K	IID		57-44-38N 056-40-17E	11HL	213	700
67K	IID		57-42-08N 056-30-02E	11HL	182	600
68K	IID		57-46-33N 056-38-44E	11HL	213	700
70K*	IID		57-41-38N 056-41-26E	11HL	213	700
71K	IID		57-45-27N 056-37-43E	11HL	152	500
73K	IID		57-43-16N 056-47-36E	11HL	152	500
74K	IID		57-40-18N 056-48-20E	11HL	213	700
Group L						
72L	IID		57-38-37N 056-25-11E	11HL	182	600
75L	IID		57-35-16N 056-26-42E	11HL	182	600
76L	IID		57-34-59N 056-19-32E	16HL	182	600
77L	IID		57-37-05N 056-20-40E	11HL	213	700
78L	IID		57-35-44N 056-13-43E	11HL	182	600
79L	IID		57-32-38N 056-23-17E	16HL	182	600
80L	IID		57-34-41N 056-20-16E	16HL	182	600
81L	IID		57-29-29N 056-23-51E	16HL	182	600
82L	IID		57-33-01N 056-10-36E	16HL	366	1,200
83L	IID		57-30-43N 056-14-30E	16HL	182	600
Group M						
84M	IID	360	57-23-31N 056-46-19E	16HL	182	600
85M	IID	360	57-22-35N 056-40-08E	16HL	182	600
86M	IID	360	57-20-29N 056-36-06E	16HL	182	600
87M	IID	360	57-19-13N 056-32-35E	16HL	182	600
88M	IID	360	57-22-18N 056-51-45E	16HL	152	500
89M	IID	360	57-20-10N 056-48-25E	16HL	152	500
90M	IID	360	57-24-55N 056-51-34E	16HL	152	500
91M	IID	360	57-22-21N 056-51-02E	16HL	182	600
92M	IID	360	57-16-58N 056-31-31E	16HL	182	600
93M	IID	360	57-20-47N 056-43-18E	16HL	182	600

* Control site

TOP SECRET 25X1

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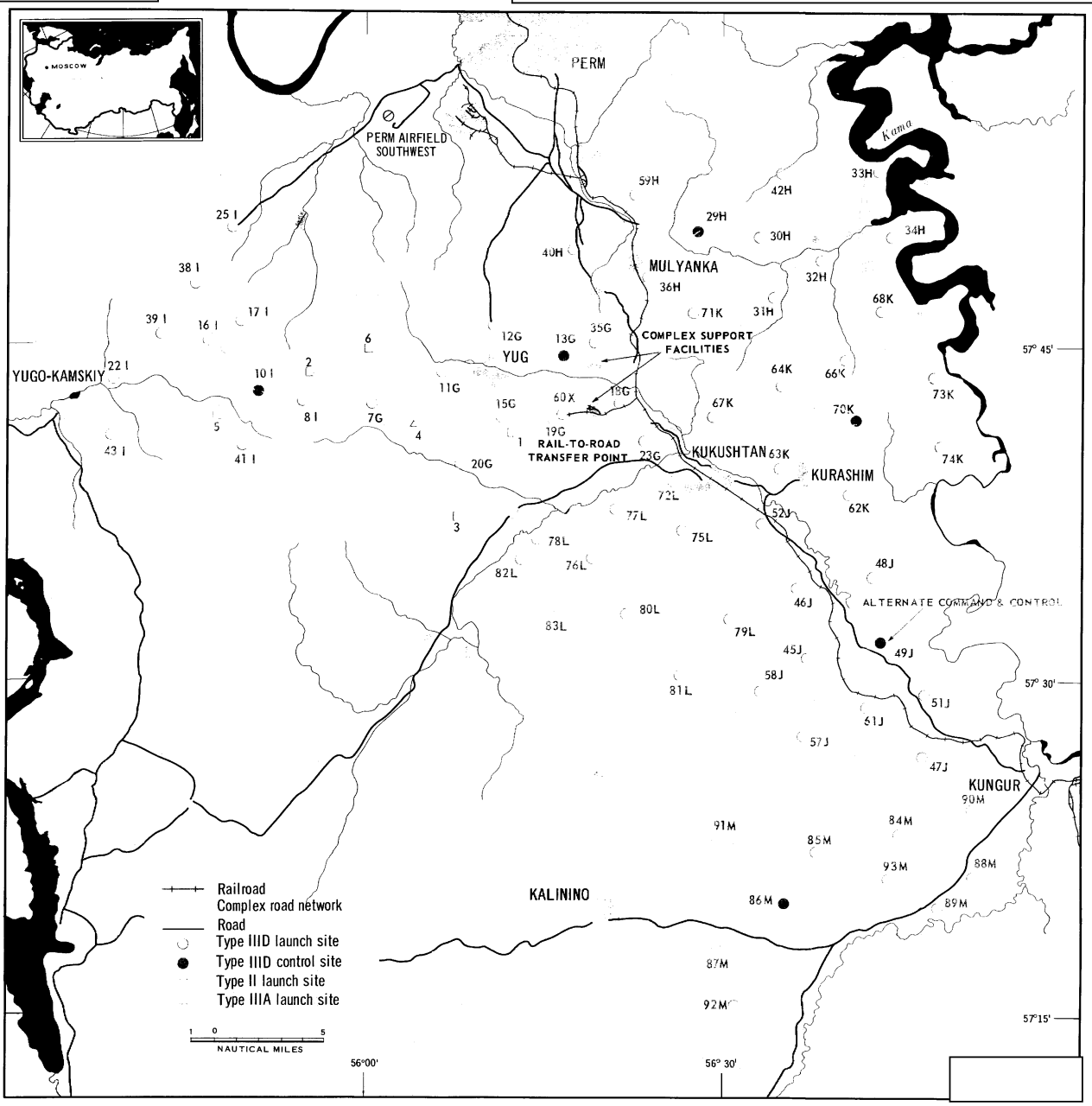

FIGURE 4. PERM ICBM COMPLEX

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Table 5. Data on Facilities at the Teykovo ICBM Complex.

Launch Site & Group	Type	Azimuth	Geographic Coords Lat Long	200 Chart	Approx Elevation Meters	Feet
Hq command and control fac			56-52-15N 040-30-44E	19	122	400
Complex support fac			56-52-28N 040-34-32E	19	122	400
Rail-to-road transfer pt			56-53-21N 040-34-24E	19	122	400
61X Trng site	IIID		56-53-27N 040-34-07E	19	122	400
Alt Command & cont		±5°	56-25-18N 039-52-17E			
1	IIB	115/295	56-54-44N 040-26-57E	19	122	400
2	IIB	115/295	56-56-18N 040-33-04E	19	122	400
3	IIB	115/295	56-55-21N 040-16-38E	19	128	420
4	IID	115/295	56-59-05N 040-39-56E	19	128	420
5	IID	115/295	56-48-37N 040-10-21E	19	122	400
6	IID	115/295	56-54-38N 040-22-23E	19	122	400
Group A						
8A	IIID	335	56-55-56N 040-37-57E	19	122	400
9A	IIID	335	56-49-17N 040-50-04E	19	122	400
11A	IIID	335	56-48-48N 040-43-26E	19	122	400
12A	IIID	335	56-53-56N 040-48-46E	19	128	420
13A*	IIID	335	56-52-20N 040-45-30E	19	122	400
14A	IIID	335	56-55-44N 040-44-38E	19	137	450
16A	IIID	335	56-50-54N 040-38-35E	19	122	400
17A	IIID	335	56-53-13N 040-31-24E	19	122	400
19A	IIID	335	56-48-34N 040-36-55E	19	122	400
20A	IIID	335	56-57-12N 040-32-52E	19	122	400
Group B						
21B	IIID	335	56-39-40N 040-21-22E	24	122	400
22B	IIID	335	56-39-02N 040-35-48E	24	137	450
23B*	IIID	335	56-42-14N 040-26-20E	24	137	450
26B	IIID	335	56-42-01N 040-32-53E	24	137	450
27B	IIID	335	56-45-59N 040-36-14E	24	137	450
28B	IIID	335	56-45-17N 040-29-15E	24	137	450
29B	IIID	335	56-44-57N 040-22-52E	24	137	450
30B	IIID	335	56-42-49N 040-20-50E	24	122	400
31B	IIID	335	56-39-50N 040-28-26E	24	137	450
32B	IIID	335	56-36-48N 040-31-38E	24	137	450
Group C						
24C*	IIID	350	56-54-57N 040-18-34E	19	122	400
25C	IIID	350	56-56-17N 040-23-34E	19	128	420
34C	IIID	350	56-57-31N 040-13-04E	19	137	450
35C	IIID	350	56-57-07N 040-08-32E	19	137	450
36C	IIID	350	56-52-34N 040-06-44E	19	137	450
43C	IIID	350	56-53-13N 040-22-41E	19	122	400
44C	IIID	350	56-50-26N 040-17-58E	19	149	490
47C	IIID	350	56-53-12N 040-14-33E	19	122	400
53C	IIID	350	56-58-28N 040-27-30E	19	122	400
54C	IIID	350	56-59-12N 040-19-31E	19	122	400
Group D						
37D	IIID	350	56-25-18N 039-52-17E	24	168	550
38D	IIID	350	56-22-23N 039-49-50E	24	160	525
39D*	IIID	350	56-27-42N 039-46-52E	24	183	600
40D	IIID	[redacted]	56-27-21N 039-58-19E	24	189	620
41D	IIID	350	56-23-49N 039-44-47E	24	160	525
42D	IIID	350	56-21-12N 039-41-51E	24	189	620
48D	IIID	350	56-29-38N 039-55-22E	24	183	600
55D	IIID	350	56-30-46N 039-49-37E	24	183	600
56D	IIID	350	56-26-27N 039-40-37E	24	152	500
57D	IIID	350	56-24-05N 039-38-54E	24	145	475
Group E						
45E	IIID	[redacted]	56-24-23N 039-58-20E	24	183	600
46E	IIID		56-20-58N 040-01-11E	24	183	600
49E	IIID	330	56-28-55N 040-07-03E	24	152	500
50E	IIID	330	56-26-46N 040-05-36E	24	183	600
51E*	IIID	[redacted]	56-22-50N 040-06-46E	24	213	700
52E	IIID		56-19-26N 040-05-01E	24	152	500
58E	IIID		56-20-14N 040-09-07E	24	183	600
59E	IIID	330	56-25-36N 040-10-54E	24	152	500
62E	IIID	330	56-19-12N 040-14-03E	24	183	600
70E	IIID	[redacted]	56-19-12N 039-57-18E	24	152	500
Group F						
60F*	IIID	--	56-39-14N 039-40-42E	24	152	500
63F	IIID	320	56-39-24N 039-32-29E	24	152	500
64F	IIID	[redacted]	56-33-20N 039-36-30E	24	183	600
65F	IIID		56-33-59N 039-47-26E	24	183	600
66F	IIID		56-36-24N 039-49-44E	24	183	600
67F	IIID		56-40-53N 039-49-29E	24	183	600
68F	IIID		56-38-00N 039-45-30E	24	183	600
69F	IIID		56-35-12N 039-33-08E	23	152	500
Group G						
71G	IIID		56-49-13N 040-04-17E	19	122	400
72G	IIID		56-50-48N 040-11-00E	19	122	400

*Control site

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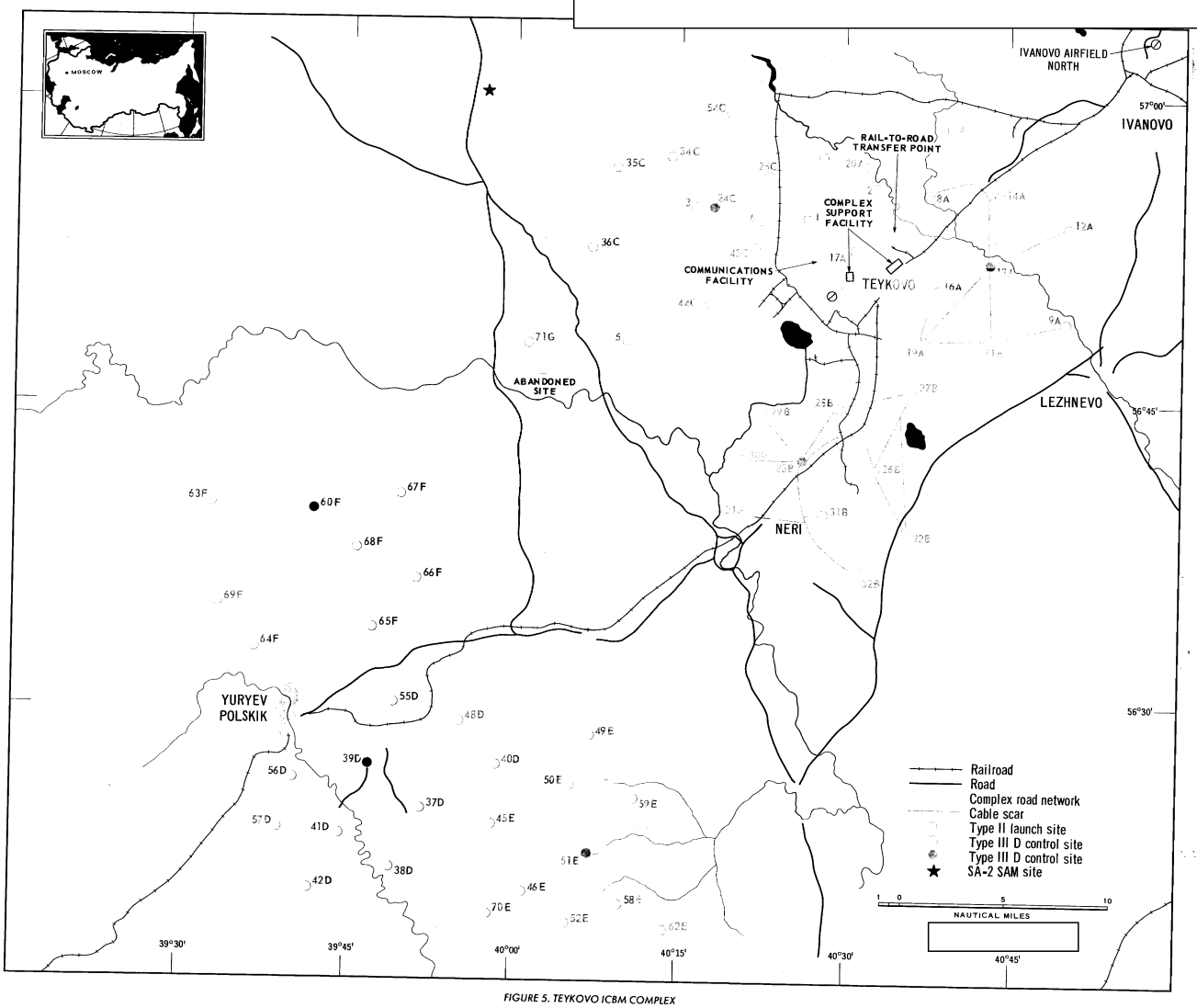

FIGURE 5. TEYKOVO ICBM COMPLEX

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Facility	Geographic Coordinates Lat Long	200 Chart
Yedrovo ICBM Complex Headquarters Command & Control Facility	57-51-00N 033-40-00E	11
	57-52-10N 033-11-20E	11
Complex Support Facility	57-51-41N 033-10-59E	11
Rail-To-Road Transfer Point	57-52-16N 033-33-15E	11
Nuclear Warhead Handling Facility	57-52-10N 033-35-47E	11
Yedrovo Transmitting Facility	57-49-50N 033-35-40E	11
Alternate command & control fac	57-47-01N 033-00-14E	11

Launch Site & Group	Type	Azimuth (Deg)	Geographic Coordinates Lat Long	200 Chart	Approx Elevation Meters	Approx Elevation Feet
SS-7 SITES						
1	IIB	290	57-47-58N 033-13-16E	11	213	700
2	IIB	290	57-48-28N 033-35-40E	11	198	650
3	IIA	330	57-53-11N 033-27-28E	11	198	650
4	IID	290	57-48-33N 033-25-07E	11	228	750
5	IID	290	57-49-58N 033-57-53E	11	213	700
6	IID	290	57-53-44N 033-00-53E	11	213	700
7	IID	290	57-47-16N 033-01-50E	11	213	700
8	IIA	330	57-52-09N 033-17-35E	11	228	750
SS-11 GROUP I						
10I	IID		57-48-08N 033-31-41E	11	198	650
11I*	IID		57-51-53N 033-07-06E	11	182	600
12I	IID		57-54-03N 033-20-14E	11	182	600
13I	IID		57-54-47N 033-29-04E	11	213	700
14I	IID		57-50-38N 033-30-54E	11	198	650
15I	IID		57-44-08N 033-37-58E	11	228	750
16I	IID		57-53-50N 033-20-08E	11	198	650
23I	IID		57-51-11N 033-34-51E	11	198	650
24I	IID		57-56-18N 033-35-01E	11	228	750
26I	IID		57-46-24N 033-29-19E	11		
GROUP J						
25J	IID		57-50-12N 033-18-02E	11	213	700
26J	IID		57-46-58N 033-19-08E	11	213	700
27J*	IID		57-47-53N 033-12-43E	11	213	700
28J	IID		57-54-28N 033-15-03E	11	213	700
31J	IID		57-50-38N 033-10-08E	11	228	750
32J	IID		57-12-27N 033-17-48E	11	228	750
33J	IID		57-44-30N 033-13-21E	11	228	750
34J	IID		57-15-18N 033-08-15E	11	228	750
35J	IID		57-11-18N 033-02-06E	11	213	700
36J	IID		57-17-31N 033-04-59E	11		
GROUP K						
37K*	IID		57-58-03E 033-11-22E	11	198	650
48K	IID		58-04-59N 033-42-34E	11	182	600
49K	IID		58-04-11N 033-57-15E	11	182	600
50K	IID		58-01-51N 033-43-14E	11	198	650
51K	IID		57-56-18N 033-58-04E	11	213	700
52K	IID		58-00-57N 033-19-29E	11	168	550
53K	IID		57-57-58N 033-16-15E	11	182	600
54K	IID		57-55-48N 033-44-39E	11	182	600
57K	IID		58-01-33N 033-35-42E	11	182	600
58K	IID		57-58-45N 033-34-10E	11	198	650
GROUP L						
38L	IID		57-14-12N 033-43-46E	11	213	700
39L	IID		57-53-07N 033-52-41E	11	182	600
40L	IID		57-50-10N 033-54-08E	11	182	600
41L*	IID		57-17-21N 033-52-19E	11	182	600
42L	IID		57-05-58N 034-01-12E	11	182	600
43L	IID		57-17-28N 034-00-50E	11	182	600
44L	IID		57-44-41N 033-58-37E	11	182	600
45L	IID		57-43-43N 033-51-18E	11	182	600
46L	IID		57-46-31N 033-45-54E	11	182	600
47L	IID		57-54-46N 033-46-19E	11	182	600

Launch Site & Group	Type	Geographic Coordinates Lat Long	200 Chart	Approx Elevation Meters	Approx Elevation Feet
GROUP M					
59M	IID	58-02-16N 033-12-00E	11	198	650
63M	IID	58-04-43N 033-03-31E	11	182	600
64M*	IID	58-06-48N 033-08-02E	11	168	550
65M	IID	58-01-48N 033-06-34E	11	168	550
66M	IID	58-06-56N 033-11-11E	11	168	550
67M	IID	58-04-18N 033-16-53E	11	182	600
68M	IID	58-10-38N 033-08-54E	11	182	600
69M	IID	58-07-13N 033-14-38E	11	213	700
71M	IID	58-09-01N 033-20-53E	11	182	600
72M	IID	58-12-17N 033-16-33E	11	182	600
GROUP N					
70N	IID	57-55-07N 032-54-28E	10	182	600
73N	IID	57-55-02N 032-45-30E	10	182	600
74N	IID	57-52-28N 032-40-08E	10	152	500
75N	IID	57-48-25N 032-49-28E	10	122	400
76N*	IID	57-48-29N 032-35-28E	10	182	600
77N	IID	57-48-52N 032-44-31E	10	213	700
78N	IID	57-47-28N 032-52-52E	10	213	700
79N	IID	57-56-06N 032-56-17E	10	213	700
80N	IID	57-52-58N 032-50-37E	10	182	600
81N	IID	57-55-55N 032-37-30E	10	91	300
GROUP O					
82O	IID	57-39-56N 032-52-27E	10	228	750
83O	IID	57-39-01N 032-45-56E	10	228	750
84O*	IID	57-34-19N 032-47-45E	10	213	700
85O	IID	57-38-12N 033-51-23E	10	213	700
86O	IID	57-35-31N 033-55-05E	10	244	800
87O	IID	57-37-03N 032-45-05E	10	213	700
88O	IID	57-39-37N 032-40-12E	10	122	400
89O	IID	57-40-08N 032-46-27E	10	213	700
90O	IID	57-35-07N 032-41-00E	10	152	500
91O	IID	57-35-28N 032-36-54E	10	152	500
GROUP P					
92P	IID	57-35-01N 033-01-18E	16	228	750
93P	IID	57-37-51N 033-10-39E	16	213	700
94P*	IID	57-34-03N 033-08-20E	16	244	800
98P	IID	57-30-43N 033-06-50E	16	228	750
99P	IID	57-29-12N 033-17-15E	16	244	800
101P	IID	57-35-50N 033-17-55E	16	213	700
100P	IID	57-35-38N 033-23-15E	16	228	750
107P	IID	57-38-17N 033-06-38E	16	228	750
112P	IID	57-26-23N 033-12-20E	16	244	800
113P	IID	57-36-24N 033-24-59E	16	213	700
GROUP Q					
104Q	IID	57-35-18N 033-30-17E	16	244	800
102Q	IID	57-38-03N 033-28-44E	16	228	750
103Q	IID	57-37-54N 033-37-34E	16	244	800
105Q*	IID	57-35-25N 033-37-00E	16	244	800
106Q	IID	57-28-43N 033-31-07E	16	213	700
108Q	IID	57-30-27N 033-37-23E	16	213	700
109Q	IID	57-36-15N 033-46-53E	16	213	700
110Q	IID	57-37-32N 033-42-41E	16	228	750
111Q	IID	57-33-29N 033-40-08E	16	228	750
112Q	IID	57-31-56N 033-29-39E	16	244	800
GROUP R					
114R	IID	57-29-58N 032-49-28E	20	213	700
116R	IID	57-27-19N 032-39-45E	20	198	650
117R	IID	57-22-24N 032-37-54E	20	213	700
118R	IID	57-21-00N 032-32-29E	20	228	750
119R	IID	57-26-21N 032-25-31E	20	198	650
120R	IID	57-30-52N 032-35-11E	20	213	700
121R	IID	57-27-45N 032-31-17E	20	213	700
122R	IID	57-25-46N 032-35-06E	20	213	700
126R	IID	57-27-38N 032-46-12E	20	213	700
127R*	IID	57-25-03N 032-33-54E	20	213	700
GROUP S					
125S	IID	58-04-30N 032-44-45E	15	91-4	300
128S	IID	58-01-32N 032-52-28E	15	91-4	300
Training Site					
51X	IID	57-52-00N 033-37-53E	11	182-8	600

25X1 25X1 25X1

*Control Site.

Note: No camouflage has been noted at any of the SS-7 or SS-11 launch sites.

25X1 25X1 25X1

25X1

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25X1 [redacted]

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2. NPIC. [redacted] *Kozelsk ICBM Complex,* Apr 69 (TOP SECRET

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3. NPIC. [redacted] *Perm ICBM Complex,* Apr 69 (TOP SECRET 25X1

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4. NPIC. [redacted] *Teykovo ICBM Complex,* May 69 (TOP SECRET

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REQUIREMENT

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TOP SECRET