



PHOTOGRAPHIC INTERPRETATION REPORT

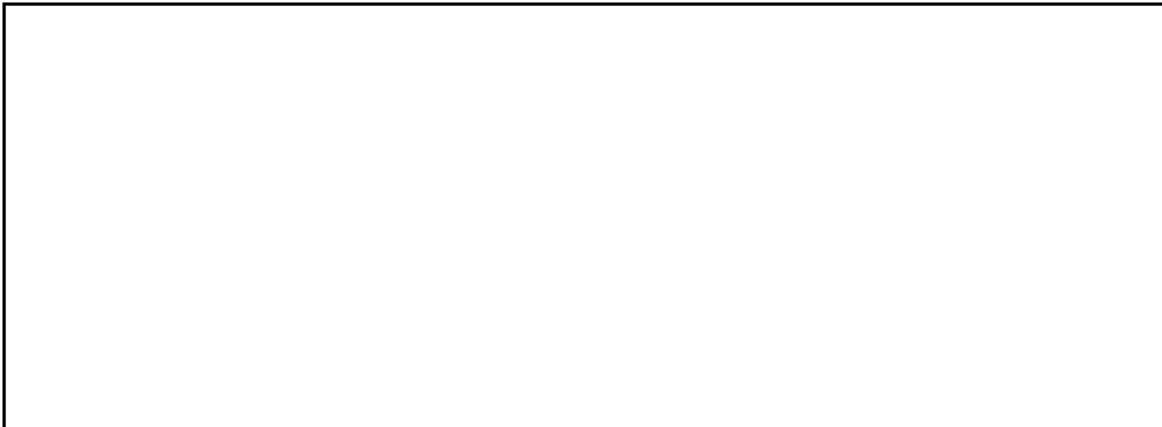
HIGH-FREQUENCY CURTAIN ARRAY AND REPORTED MILITARY DISTRICT HEADQUARTERS KHABAROVSK, USSR



CIA

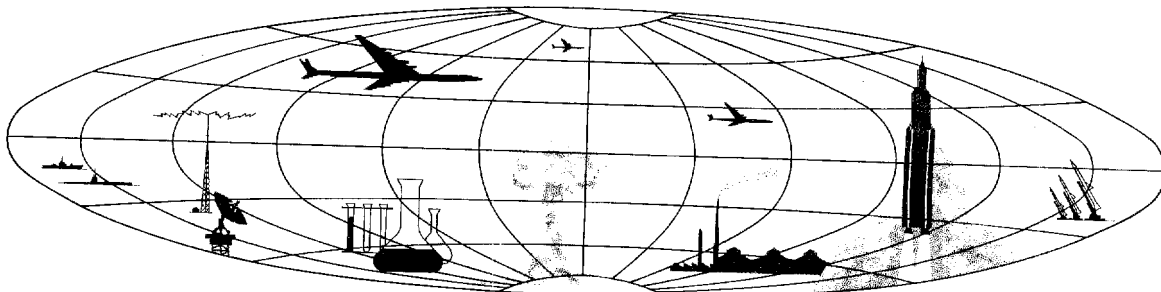


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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



NPIC/R-276/64

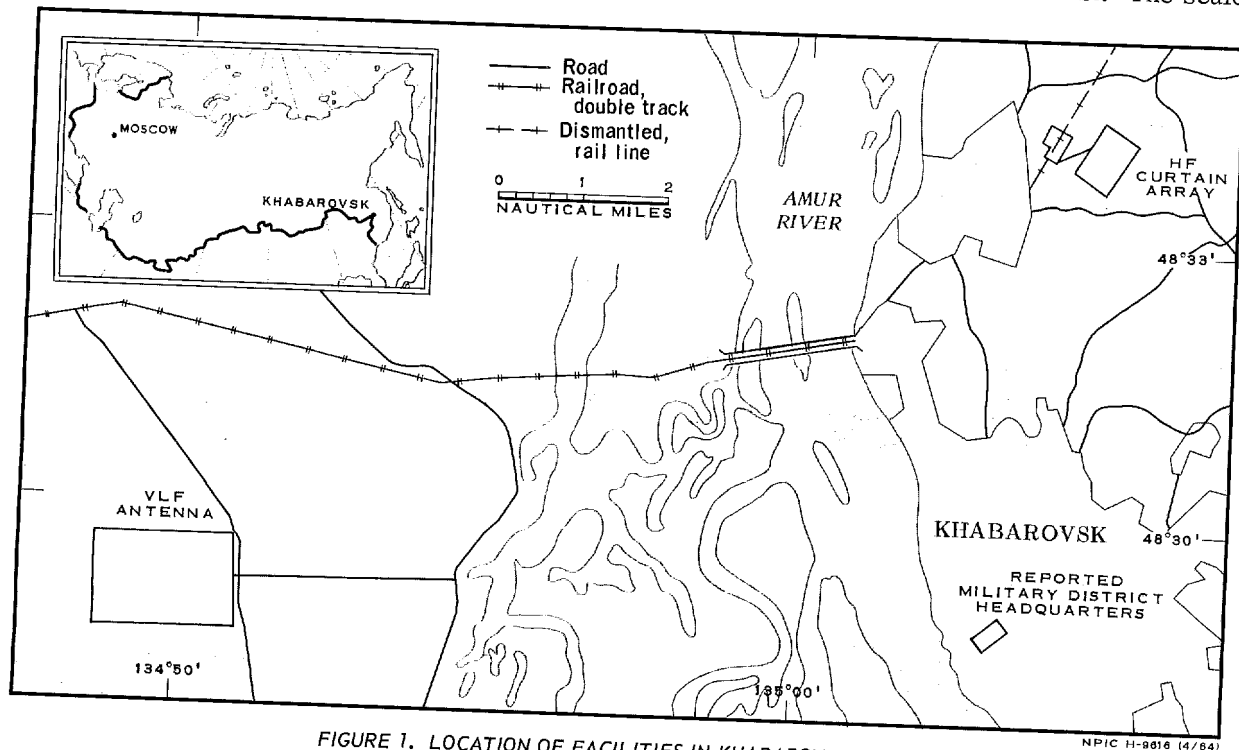
HIGH-FREQUENCY CURTAIN ARRAY AND REPORTED MILITARY DISTRICT HEADQUARTERS KHABAROVSK, USSR

This report was prepared in response to a request for analysis of certain facilities in the Khabarovsk area, namely the very low frequency (VLF) antenna at 48-29N 134-50E, the Far East Military District Headquarters reported at 48-28-55N 135-03-20E, and the high-frequency (HF) curtain array at 48-34-00N 135-04-50E (Figure 1). Small scale and snow cover restricted interpretation so that antenna frequencies could not be determined. Also, it was not possible to establish from photography any association between the VLF antenna, the HF curtain array, and the reported military district headquarters beyond the fact that the two antenna facilities were both in early stages of construction in [REDACTED]. No military equipment or

troop concentrations other than the normal support facilities were seen in association with the three sites.

The VLF antenna has been previously analyzed in detail 1/ and, since then, there has been no significant change.

The facility reported to be the Far East Military District Headquarters is situated in a walled compound near the center of Khabarovsk and consists of at least seven multistory buildings, including a large gable-roofed administration building with four wings. Two microwave radio relay dishes on a 50-foot lattice tower were reported at this facility in collateral information of 1962. 2/ The orientation of the dishes was given as south and east. The scale



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FIGURE 1. LOCATION OF FACILITIES IN KHABAROVSK AREA.

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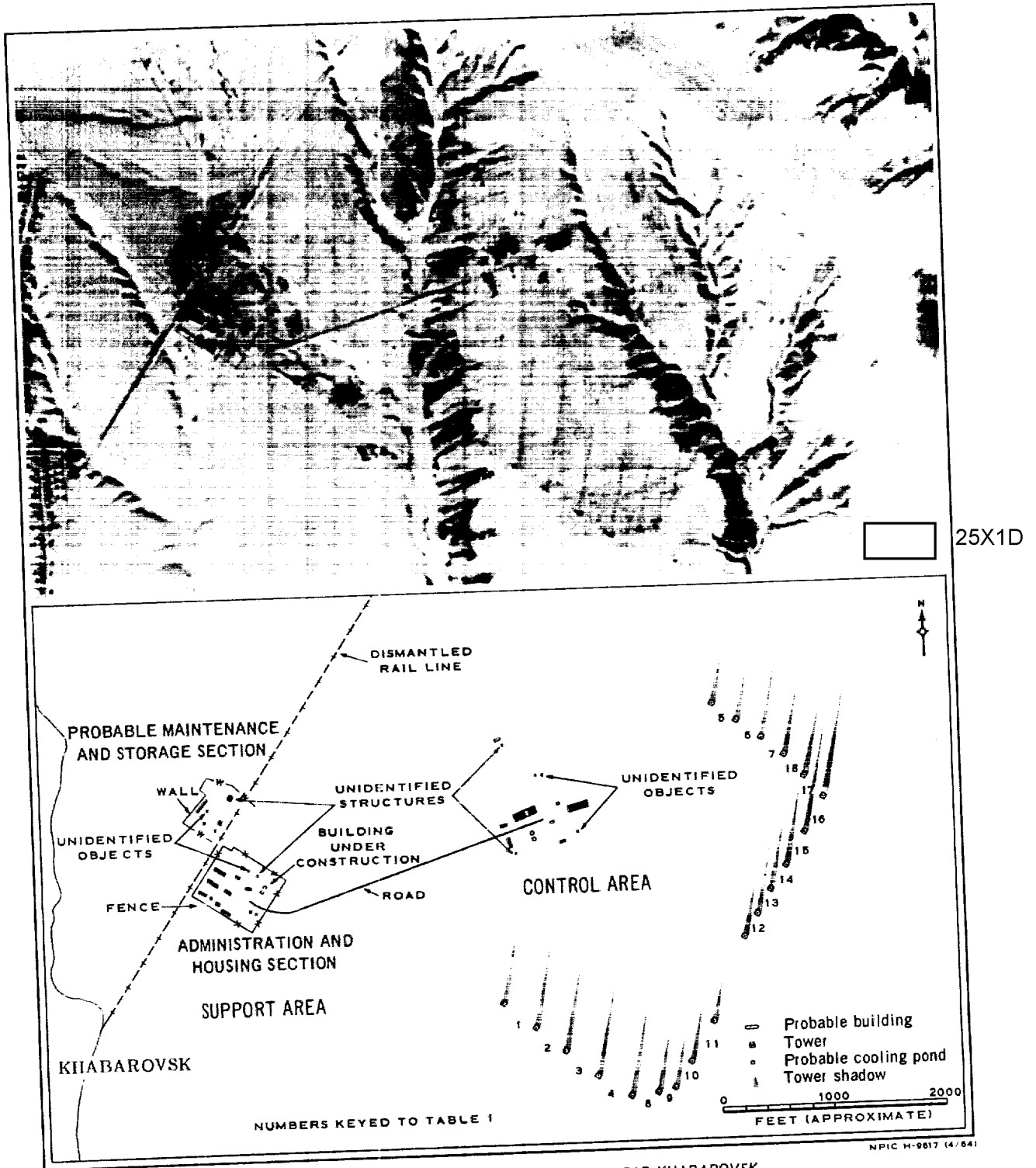


FIGURE 2. HIGH-FREQUENCY CURTAIN ARRAY NEAR Khabarovsk.

of the available photography precludes identification of this reported tower, and no other items pertinent to the facility can be determined.

The HF curtain array (Figure 2) is 5.3 nautical miles (nm) north of the reported military district headquarters. This facility consists of 18 antenna curtains (radiating on various frequencies and oriented in various directions) suspended between 20 self-supporting steel towers of varying height, a centrally located operational control area, and a support area. Specifics of the array, including orientation,

possible subscriber, approximate curtain height, and approximate tower spacing, are given in Table 1. The operational control area consists of 2 large probable transmitter buildings (one 205 by 65 feet and the other 185 by 70 feet), 3 smaller buildings, 3 probable buildings, 2 probable cooling ponds, 2 unidentified structures, and 3 unidentified objects. A road connects the control area to the support area, which is 0.5 nm to the west. The support area is divided into two separately secured sections, one being an administration and housing section and the other

Table 1. Data on HF Curtain Array (numbers keyed to Figure 2)

Curtain	Orientation (in degrees)	Possible Subscriber	Curtain Height (in feet) (approx)	Tower Spacing (in feet) (approx)
1		North Korea or Nikolayevsk area	350	385
2		North Korea or Nikolayevsk area	350	385
3		North Korea or Nikolayevsk area	350	385
4		North Korea or Nikolayevsk area	350	385
5		North Korea or Nikolayevsk area	Undetermined	280
6		North Korea or Nikolayevsk area	Undetermined	300
7		North Korea or Nikolayevsk area	Undetermined	280
8		Central Honshu Island, Japan	230	290
9		Central Honshu Island, Japan	170	190
10		South Sakhalin Island	Undetermined	260
11		South Sakhalin Island	Undetermined	Undetermined
12		South Sakhalin Island	Undetermined	240
13		South Sakhalin Island	Undetermined	260
14		South Sakhalin Island	Undetermined	260
15		South Sakhalin Island	340	380
16		South Sakhalin Island	340	380
17	50	Northern Kamchatka Peninsula	Undetermined	260
18	50	Northern Kamchatka	Undetermined	280

Note: An attempt was made to calculate frequencies, but the imagery was of insufficient quality to determine the number of feed points and, therefore, the number of wavelengths per curtain length.

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a probable maintenance and storage section. The fenced administration and housing section consists of 12 buildings (the 2 largest being multistoried and measuring approximately 135 by 30 feet), a small unidentified structure, and an unidentified object. The probable maintenance

and storage section is adjacent and immediately north on the other side of a dismantled rail line. It appears to be walled on three sides and consists of four buildings, an unidentified structure, and an unidentified object.

REFERENCES

PHOTOGRAPHY

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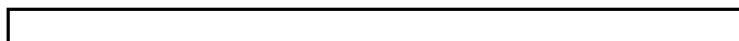


MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0204-22AL, 2d ed, Jan 63, scale 1:200,000 (SECRET)

ACIC. US Air Target Mosaic, Series 50, Sheet S0204-225MA, 1st ed, Oct 61, scale 1:50,000 (SECRET)

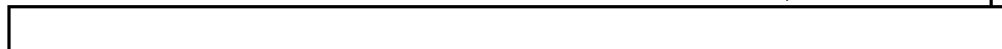
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DOCUMENTS

1. NPIC. R-47. 62, *Very Low Frequency Antenna Near Khabarovsk, USSR*, Apr 62 (TOP SECRET [redacted])

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RELATED DOCUMENTS

Air. DPIR No T 58-20, *Select USSR Radio Communications, Alma Ata, Novosibirsk, Komsomolsk, Rustavi-Tbilisi*, Oct 58 (TOP SECRET [redacted])

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CIA. PIC. JR-29. 59, *Five Soviet High-Frequency Broadcasting Stations*, Dec 59 (TOP SECRET [redacted])

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REQUIREMENT

NSA. P0432/R27-64

NPIC PROJECT

N-381/64

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Approved For Release 2006/01/17 : CIA-RDP78B04560A002200010035-6

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