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June 1963

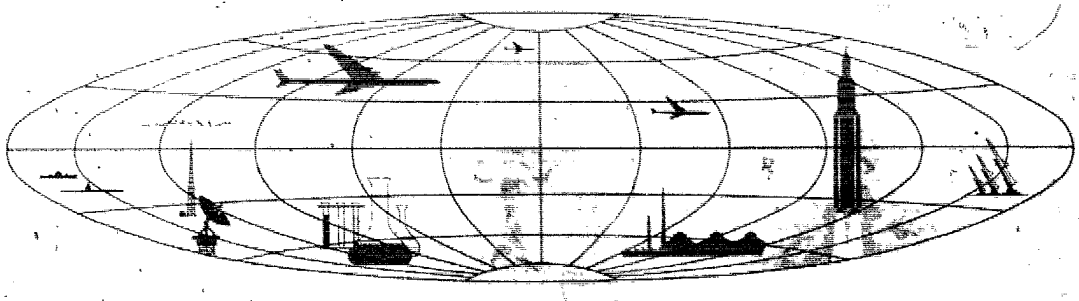
PHOTOGRAPHIC INTERPRETATION REPORT

S-9207

NAVAL MISSILE FACILITIES, USSR

ARMY NAVY AIR FORCE CIA

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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NAVAL MISSILE FACILITIES, USSR

SUMMARY

Four naval missile facilities -- one confirmed, two probable and one suspect -- have been located in widely separated parts of the USSR. The confirmed site is near Severomorsk; the probable sites are near Dunay and Sevastopol; the suspect site is near Kaliningrad (Figure 1).

The principal elements of these facilities appear to be an inert storage and checkout area, an explosives storage area, stringent security, and road systems characterized by wide turning radii. The storage and checkout areas contain four to six large storage-type buildings set parallel to each other, one or more probable drive-through buildings, and several additional storage-type buildings.

The four facilities appear to have been built since [redacted] They are secured and appear to be administered separately from other munitions depots. They are located near the headquarters of the four Soviet fleets at points accessible to naval landing facilities having missile associations.

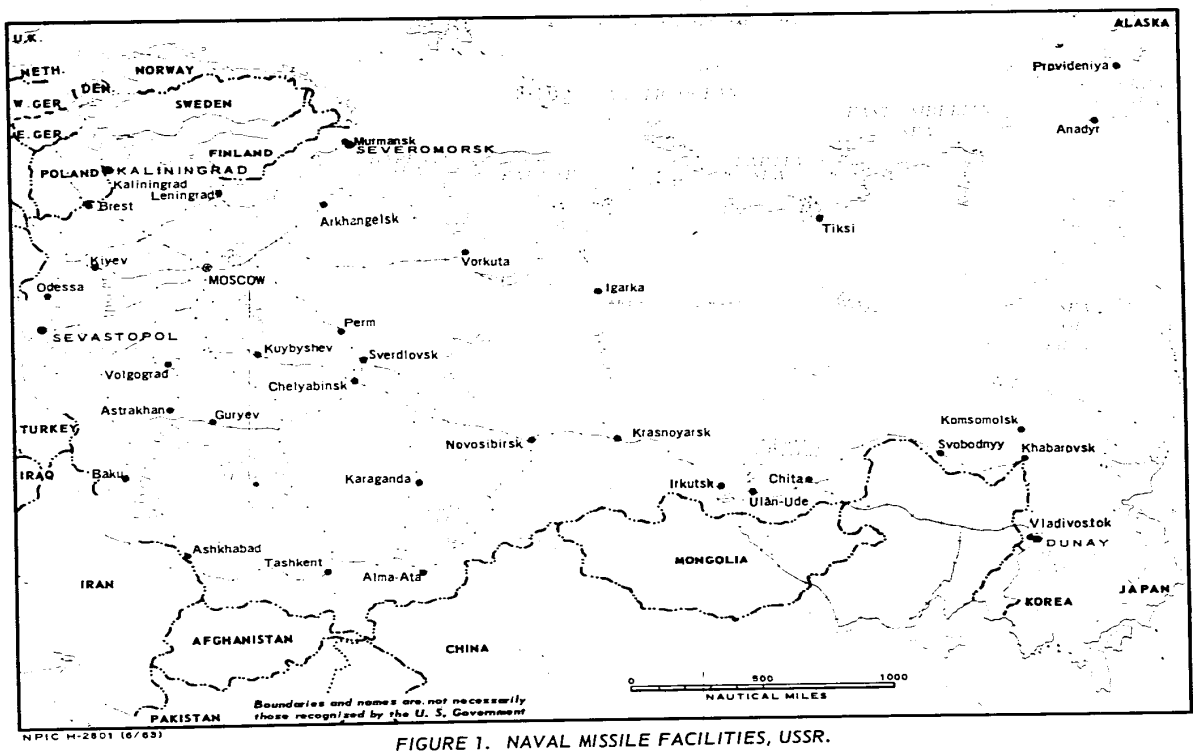

FIGURE 1. NAVAL MISSILE FACILITIES, USSR.

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The four facilities do not resemble other Soviet munitions depots such as the Probable Submarine Weapons Storage Facility at Sayda Guba or the regional military storage depots. [redacted] 25X1

INTRODUCTION

Four similar facilities have been located in the USSR which seem to be concerned with the storage and handling of Soviet naval missiles. The installation near Severomorsk is evaluated as a naval missile facility, the installations near Dunay and Sevastopol are evaluated as "probable" naval missile facilities, and the installation near Kaliningrad is evaluated as a "suspect" naval missile facility.

The four installations appear to have similar location characteristics and to contain the same principal elements. All contain a probable storage and checkout area (Area A) and an explosives storage area (Area B). All are secured and are served by road systems which have wide turning radii. The facilities at Sevastopol and Kaliningrad are more heavily secured than those at Dunay and Severomorsk, but similar regional variations in security measures have been noted in other types of installations in the USSR. Conventional munitions storage installations are located in [redacted] 25X1

Table 1. Location, Access, and Status

Site Name and Coordinates	Location and Fleet Headquarters	Access to Naval Landing Facility	Access to Interior	Site Description	Status and Timetable
Severomorsk 69-05N 033-30E	1.5 nm ENE of Severomorsk, Northern Fleet	Direct road to new wharf on Guba Okolnaya used by possible missile submarines	3.5 nm to rail terminus	Valley	[redacted]
Dunay 42-56N 132-20E	21 nm ESE of Vladivostok, Pacific Fleet	Road connection to new pier and building on east shore of Bukhta Abrek, used by missile destroyers	Possible rail siding just south of facility	Valley	
Sevastopol 44-36N 33-40E	6 nm East of Sevastopol, Black Sea Fleet	Road connection to probable missile loading facility in Sevastopol Naval Base, used by missile destroyers	2 nm to rail	Valley	
Kaliningrad 54-50N 20-28E	23 nm ENE of Baltiysk and 8 nm north of Kaliningrad, Baltic Fleet	Road connection to Baltiysk	Rail served	Woods (coastal plain)	

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each area but the four facilities apparently are administered separately. The facilities at Dunay, Sevastopol, and Kaliningrad are isolated, and that at Severomorsk, although it adjoins a pre-existing ammunition depot, is separately fenced and is connected by road to a specially built wharf that is used by possible missile submarines. The facilities at Dunay and Sevastopol are accessible by road to landing facilities used by missile destroyers.

The facilities near Dunay, Sevastopol, and Kaliningrad are similar in appearance. That at Severomorsk differs markedly in appearance from the others and contains two possible underground entrances in the explosives storage area. However, it contains the same principal components as the other sites and its different layout probably results from its location in extremely rugged terrain. The facilities at Dunay and Sevastopol contain small additional building areas peculiar to each which may reflect the differing requirements of the individual fleets.

The similar location characteristics of the four installations are shown on Figures 1 through 5 and summarized in Table 1. Sevastopol is the oldest, unidentified activity at this facility having been seen in [redacted] but it still was incomplete in [redacted] The Kaliningrad facility still was under construction in [redacted] The others appeared complete in [redacted]

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PROBABLE STORAGE AND CHECKOUT AREA

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In all four installations, the probable storage and checkout areas (referred to as Area A in Figures 2-6) appear to have been built first. At each installation, this area consists of at least four large storage-type buildings set parallel to each other, one or more drive-through buildings, and several additional storage-type buildings. At Dunay, Sevastopol, and Kaliningrad, the large parallel buildings are canted to a service road and set in echelon. At Dunay, the service road loops around the canted buildings so that vehicles may drive into either end. At Kaliningrad, the service road appears to loop around the canted buildings, but poor image quality and tree cover preclude further photo interpretation. At Sevastopol, the buildings are canted away from the service road; at each building, a driveway leads from the service road to an apron at the end instead of into the building. At Severomorsk, the buildings are set at right angles to the road and the driveway entrances widen to a "V" so that the buildings can be entered from either direction. These buildings appear to be used primarily for the storage of large components. At Severomorsk, Dunay, and Sevastopol are several additional large storage-type buildings. Each area contains at least one large drive-through building served by loop roads; however, Dunay contains four drive-through buildings. A comparison of the probable storage and checkout area at the four installations is contained in Table 2.

EXPLOSIVES STORAGE AREA

The installations at Severomorsk, Dunay, and Sevastopol contain explosives storage areas (referred to as Area B in Figures 2-6). At Kaliningrad, a road under construction in the woods has possible clearings adjacent to it which possibly may be an explosives-storage area under construction. All these areas appear to be conventional high explosives-storage areas

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[redacted]

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Table 2. Comparison of Storage and Checkout Areas (Area A)
(All measurements are approximate)

Site Name	Security	Canted Buildings		Other Storage Buildings		Drive-Through Buildings		Unidentified Buildings	
		No	Size (ft)	No	Size (ft)	No	Size (ft)	No	Size (ft)
Severomorsk	Single fence	4	250 x 80 (not canted)	2	250 x 50	1	100 x 60	2	Not measurable
Dunay	Single fence	5	230 x 80	1 1 1	390 x 80 200 x 60 100 x 60	1 1 1 1	135 x 40 60 x 40 90 x 30 60 x 30	2	Not measurable
Sevastopol	Double fence	2 1 1 2	265 x 35 240 x 35 220 x 35 175 x 35	1 1	115 x 35 75 x 20	1	110 x 20	None	
Kaliningrad	Possible double fence	1 1 2	215 x 80 200 x 80 185 x 65	None identified		None identified		1 1	240 x 100 160 x 50

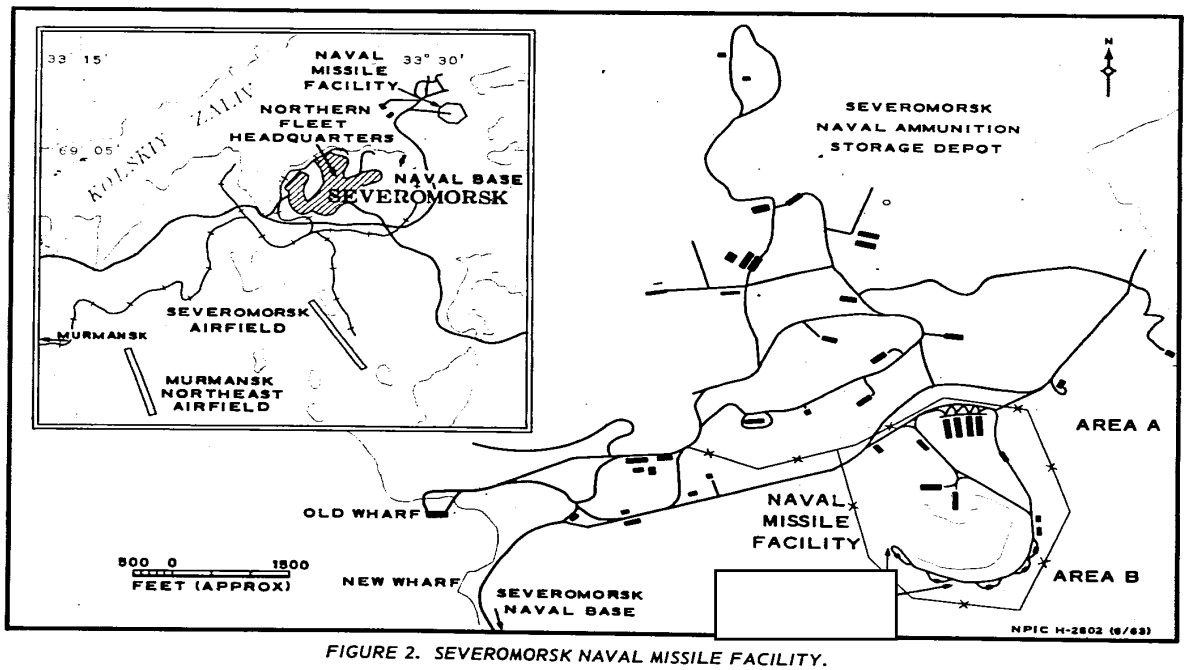

FIGURE 2. SEVEROMORSK NAVAL MISSILE FACILITY.

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COMPARISON WITH OTHER MUNITIONS STORAGE AREAS

The four facilities do not resemble Soviet regional military storage installations, such as that near Surovatikha; neither do they resemble the submarine weapons facility at Sayda Guba Submarine Base, which also includes [redacted] The four facilities are much smaller than the regional military storage installations, such as that near Surovatikha. All except Kaliningrad lack rail service, and all lack the rail/trench transloading systems characteristic of the regional military storage installations. The four facilities are larger than the Sayda Guba facility and are deployed near the headquarters areas of the four fleets, rather than at advanced bases.

Assuming that the facilities are missile related, shipborne or naval missiles are the most probable type. The facilities are in addition to known SAM support facilities in all four areas; they are in addition to known ASM support facilities in three areas and known cruise-missile support facilities in at least one area; and are deployed forward of known SSM launch complexes in all four areas.

SEVEROMORSK

The Severomorsk Naval Missile Facility (Figures 2 and 3; Table 3) is located at 69-05N 33-30E, 1.5 nautical miles (nm) east-northeast of Severomorsk, headquarters of the Soviet Northern Fleet and northern terminus of the Kirov railroad system. The facility was first seen on [redacted] photography of [redacted]. It was not present on [redacted] photography of [redacted] The facility appears to be related to a new wharf used by possible missile submarines also first seen in [redacted] and not present [redacted] The facility is built in a valley around a small lake on extremely rugged terrain which limits selection of building sites. The facility is separated from the adjoining Severomorsk Naval Ammunition Storage Depot. The separate fencing and the duplication of wharves tend to indicate that the missile facility is administered separately.

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25X1D
5X1 25X1D
5X1

The access road and service roads have wide turning radii, road junctions in the facility being widened so that long vehicles can turn in either direction. The access road, built [redacted] joins a road running along the coast between Severomorsk and the ammunition depot. On Guba Okolnaya, near the entrance to the access road, a wharf with a possible movable crane on it has been built [redacted] This wharf duplicates an offshore wharf at the ammunition depot. Two possible missile sub-

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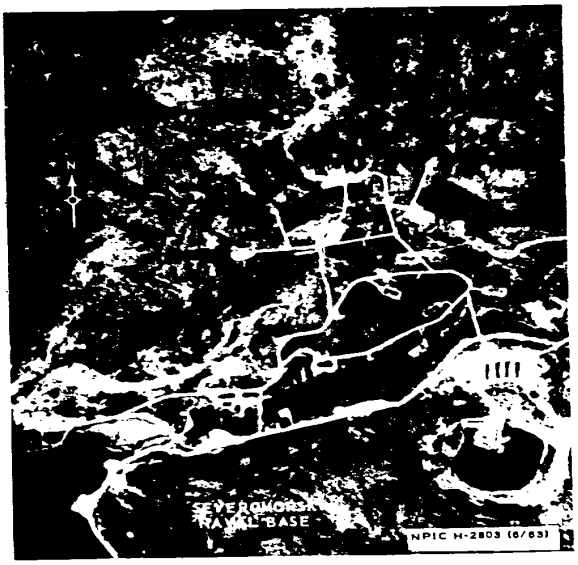

FIGURE 3. VIEW OF SEVEROMORSK NAVAL MISSILE FACIL- [redacted]

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Table 3. Building Dimensions - Severomorsk
(All measurements are approximate)

Description	Dimensions (ft)
Area A	
Four parallel storage-type buildings	250 x 80
One drive-through building	100 x 60
Two storage-type buildings	250 x 50
Two small buildings	Not measurable
Area B	
Seven buildings	160 x 50
Two possible underground entrances	---

marines were seen tied up to the new wharf [redacted]

Area A is north of the lake near the entrance to the facility and consists of four large, parallel storage-type buildings, one drive-through building, two additional large storage/shop buildings, and two smaller buildings. The four parallel buildings are set at right angles to the road and have V-shaped driveways. The other large storage/shop buildings have similarly shaped driveways, and all road junctions are widened so that long vehicles may turn either way.

Area B consists of seven buildings and two possible underground entrances ringing the south shore of the lake. The buildings are on aprons cut into the side of a hill and thus are revetted on three sides. These buildings have a possible drive-in or drive-through capability. Next to the two buildings at the end of the service road are two possible [redacted] 25X

DUNAY

The Dunay Probable Naval Missile Facility (Figure 4 and Table 4) is located at 42-56N 132-20E on Promyslovka Peninsula. It is 4 nm north of Dunay and 21 nm east-southeast of Vladivostok, headquarters of the Soviet Pacific Fleet. The facility was first seen on [redacted] photography of [redacted] but was not observed on oblique photography of [redacted] This facility consists of three separately fenced areas and an unfenced housing and administrative area positioned along a dead-end road in a narrow valley. 25X1D

The access road and the service roads have wide turning radii, and at the point where the access road joins the main road it widens so that long vehicles can turn onto the main road in either direction. At this point the main road parallels a rail line, but the presence of a rail-to-road transfer facility cannot be determined. The main road connects the facility with the Naval Supply Depot at Dunay with a new port facility on the east shore of Bukhta Abrek near Promyslovka. Two probable "Krupnyy" class guided missile destroyers were seen tied up at the Bukhta Abrek port facility and a suspect "G" class ballistic missile submarine was seen anchored off Dunay on [redacted] photography of [redacted] No vessels could be seen on photography of [redacted] [redacted] Four probable guided missile destroyers and one destroyer/guided missile destroyer were seen tied up at the Bukhta Abrek port facility on photography of [redacted] 25X1D 25X1 25X1D 25X1D 25X1D

Area A appears to be the main part of the installation. It is road served and separately fenced. Area A contains five large parallel storage-type buildings canted to a loop service road, four drive-through possible checkout buildings served by loop roads, three additional storage-type buildings, and two smaller build-

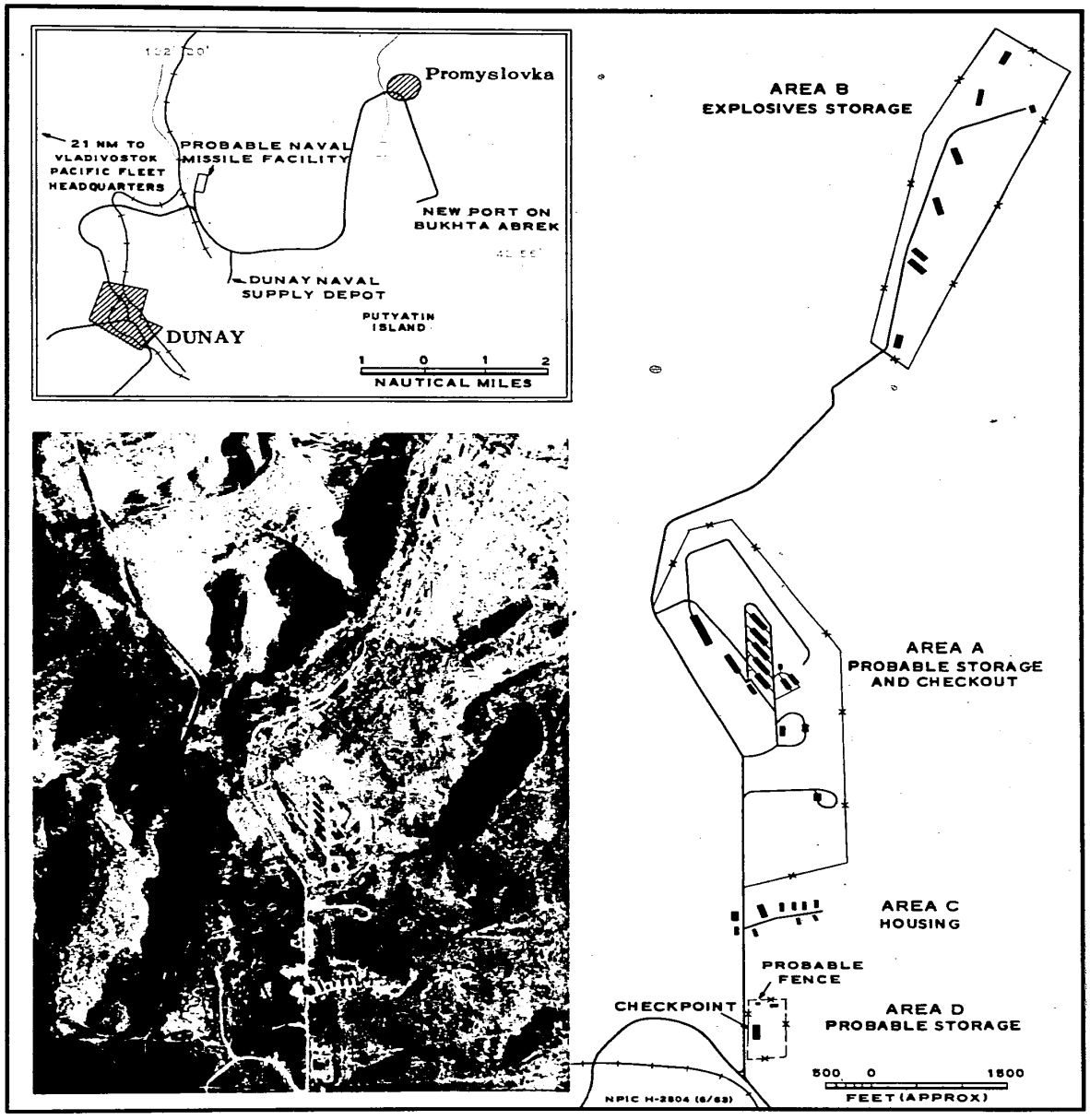

FIGURE 4. DUNAY PROBABLE NAVAL MISSILE FACILITY.

ings. The canted buildings have a drive-through capability and are canted to the loop road at such an angle that long vehicles may enter either end. Three of the driveways are V-shaped. The entrance to the loop road serving one of the possible drive-through checkout buildings is angled to provide easy access from outside the facility but not from the remainder of Area A.

Area B consists of seven storage-type buildings of various sizes and one small building. It is road served and separately fenced.

Area C, a housing area, consists of six barracks-type buildings and several smaller buildings. It is road served but not secured.

Area D, a road-served probable storage area, contains three storage-type buildings and is fenced off from the access road. It is located at the entrance to the facility opposite the checkpoint.

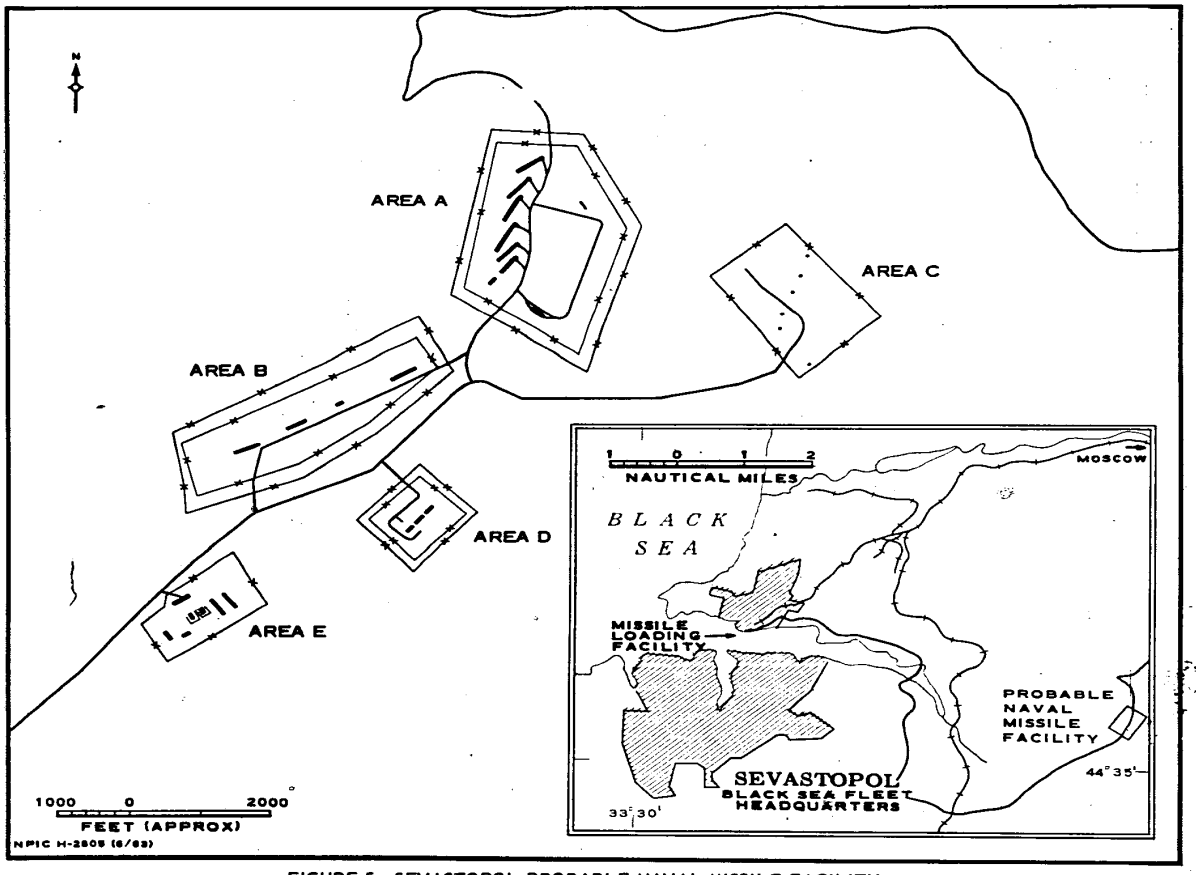

FIGURE 5. SEVASTOPOL PROBABLE NAVAL MISSILE FACILITY.

Table 4. Building Dimensions - Dunay
(All measurements are approximate)

Description	Dimensions (ft)	Description	Dimensions (ft)
Area A		Area B	
Five storage-type buildings canted	230 x 80	Two buildings	170 x 40
Drive-through building	135 x 40	Five buildings	200 x 40
Drive-through building	60 x 30	One small building	Not measurable
Drive-through building	60 x 40	Area C	
Drive-through building	90 x 30	Two-story building	115 x 60
Storage-type building	390 x 80	Building	200 x 70
Storage-type building	200 x 60	Eight buildings, average	100 x 40
Storage-type building	100 x 60	Area D	
Two buildings	Not measurable	Building	200 x 40
		Two small buildings	Not measurable

SEVASTOPOL

The Sevastopol Probable Naval Missile Facility (Figure 5 and Table 5) is located at 44-36N 33-40E, 6 nm east of Sevastopol, headquarters of the Soviet Black Sea Fleet. The facility was first identified on [redacted] photography in [redacted] The site of the facility was covered in [redacted] and [redacted] by poor quality or far oblique [redacted]hotography. It is also visible on [redacted] photography of [redacted] The facility consists of five individually fenced areas positioned along a road in a narrow valley. The facility was not present in [redacted] however, some installations were present and in [redacted] the facility was complete except for Area B, the probable explosives storage area, which was under construction. [redacted] the facility appeared complete.

25X1D
25X1D
25X1D
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25X1
25X1

The access road and service roads have wide-radius turns. The access road joins the main road into Sevastopol. This road provides access to rail facilities 2 nm to the west and to a probable naval missile loading facility in Sevastopol Naval Base. The base is heavily secured, and includes one probable and two possible underground en-

Table 5. Building Dimensions - Sevastopol
(All measurements are approximate)

Description	Dimensions (ft)	Description	Dimensions (ft)
Area A		[redacted]	
Storage-type building, canted from road	240 x 35		
Two storage-type buildings, canted from road	175 x 35		
Two storage-type buildings, canted from road	265 x 35	Area D	
Storage-type building, canted from road	220 x 35	Three buildings	110 x 35
Storage-type building	115 x 35		
Building	75 x 20	Area E	
Drive-through building	110 x 20	Building	150 x 25
		Building	140 x 25
Area B		Two buildings, possibly revetted	90 x 20
Revetted building	270 x 35	Building	100 x 25
Revetted building	110 x 35	Building	140 x 25
Two revetted buildings	220 x 35	Building	170 x 25

25X1D trances. A "Krupnyy" class missile destroyer was seen on photography of [redacted].

Area A is located at the far end of the access road and is secured by a double fence and gate. The area contains six long, storage-type buildings canted away from the road, a large drive-through building served by a network of loop roads, two other storage-type buildings, and numerous smaller buildings. Driveways lead onto an apron at one end of each of the canted buildings. Vehicles either turn or are unloaded on these aprons.

Area B is built on a hillside above the access road. It is double fenced and contains four large buildings built on aprons cut into the side of the hill, thus being revetted on three sides. This area, when under construction [redacted] contained eight excavations at the sites of the four buildings. The service road for the area joins the main access road at two points: one near Area A and one toward the southern edge of the facility.

Area C is a single-fenced, road-served area. Six possible sheds or long trailers and a few small buildings were observed on [redacted] Only the buildings are visible on [redacted] photography of [redacted] 25 25X1 25X

Area D, which contains three buildings in a line, is inside a double fence and is served by a possible loop road. The buildings are set so close together that they appear to blend into one.

Area E also is fenced and road served. It contains seven buildings, two possibly revetted on three sides.

KALININGRAD

The Kaliningrad Suspect Naval Missile Facility (Figure 6 and Table 6) is located at 54-50N 20-28E, 23 nm east-northeast of Baltiysk Naval Base and 8 nm north of Kaliningrad, headquarters of the Soviet Baltic Fleet.

25X1D The facility was first seen on [redacted] photography of [redacted]. The facility consists of three separate areas in a forest that shields it from ground observation and provides some blast protection. The installation is rail served, and the access road extends west to connect with an existing road network. A detailed photo analysis of this facility is hampered by tree cover and adverse atmospheric conditions.

Area A, the possible storage and checkout area, contains four large, storage-type buildings and space for a fifth building, all set parallel to each other and canted to a loop road, and two other buildings. The area is secured, possibly by a double fence, and is served by road and rail.

Area B, the suspect explosives-storage area under construction, is a newly cleared area 1.5 nm west of Area A. It is connected to

Table 6. Building Dimensions - Kaliningrad
(All measurements are approximate)

Description	Dimensions (ft)
Area A	
Storage-type building, canted to road	215 x 80
Two storage-type buildings, canted to road	185 x 65
Storage-type building, canted to road	200 x 80
Building	240 x 100
Building	160 x 50
Area B	
No buildings observed	
Area C	
Building	200 x 40
Building	100 x 40
Building	180 x 65

Area A by an east-west road cut through the woods since World War II. [redacted] the area consisted only of usable parallel roads just to the north of the east-west road and a loop road cut in the woods. Areas of disturbed earth adjacent to the loop road and between the parallel roads possibly may have indicated buildings under construction. In [redacted] only the parallel roads were visible. In [redacted], clearings in the woods were visible, and in [redacted] the loop road in the woods was visible.

Area C contains only three large buildings. No security measures are apparent.

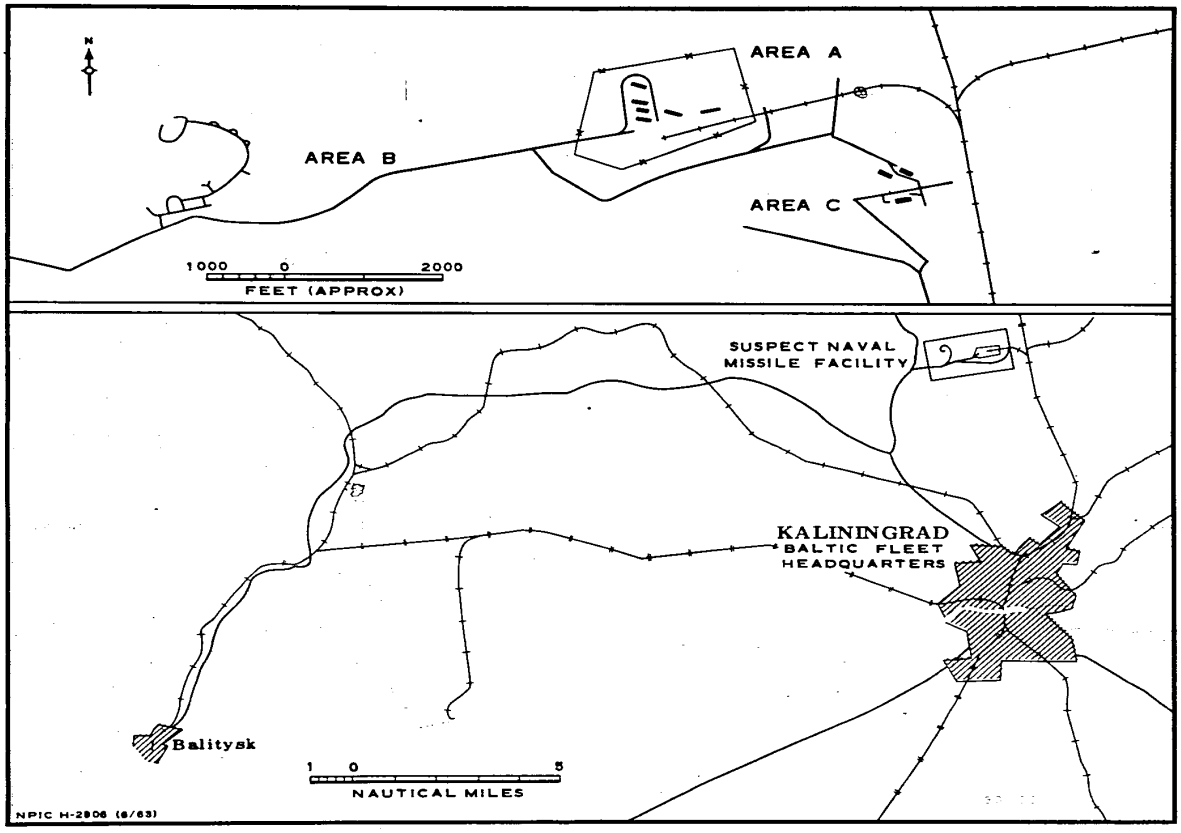

FIGURE 6. KALININGRAD SUSPECT NAVAL MISSILE FACILITY.

CONCLUSIONS

It is concluded that the facility near Severomorsk is a naval missile facility, that Dunay and Sevastopol -- in that order of probability -- are probable naval missile facilities and that the site near Kaliningrad is a suspect naval missile facility. The reasons for the foregoing conclusions are:

1. The four facilities have similar functions.

a. The facilities resemble each other and appear to have similar functions.

b. The similarities of layout, constituent parts, construction timing, and location are so marked that functions established at one facility are generally applicable to the others.

2. The facilities are probably missile associated.

a. The facilities are munitions storage facilities which contain such missile indicators as drive-through buildings and inert storage buildings capable of housing missile components.

b. The facilities have service and access roads with wide turning angles capable of handling long vehicles.

c. The facilities are highly secured.

d. The facilities are in addition to pre-existing conventional munitions depots.

e. The facilities probably have been [redacted] 25X

f. The facilities have road connections to landing facilities used by missile ships.

3. The facilities are probably naval associated.

a. All four facilities found to date are deployed in naval complexes near the headquarters of the four Soviet fleets.

b. The facilities are connected by roads to naval landing facilities: three are used by possible missile submarines or missile destroyers; two appear to have been built concurrently with the subject facilities, and one is directly connected to the subject facility by a new road.

c. The four facilities do not appear to support other types of missile activity because of duplication of facilities and deployment pattern.

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MAPS OR CHARTS

Severomorsk

ACIC. US Air Target Chart Series 200, Sheet 0051-18AL, 2d ed, Apr 60, scale 1:200,000 (SECRET)

Dunay

ACIC. US Air Target Chart Series 200, Sheet 0291-6AL, 2d ed, Aug 61, scale 1:200,000 (SECRET)

Sevastopol

ACIC. US Air Target Chart Series 200, Sheet 0250-25AL, 3d ed, Jul 60, scale 1:200,000 (SECRET)

Kaliningrad

ACIC. US Air Target Chart Series 200, Sheet 0169-10AL, 2d ed, May 61, scale 1:200,000 (SECRET)

ACIC. US Air Target Mosaic Series 25, Sheet 0169-9999-7-25MA, 2d ed, Jun 57, scale 1:25,000 (SECRET)

RELATED REPORTS

[redacted]

NPIC/R-63/62, Possible Logistical Support Facility Near Kaliningrad, USSR, May 62 (TOP SECRET [redacted] 25X1

NPIC/R-66/63, Probable Submarine Weapons Facility, Sayda Guba Submarine Base, USSR, Apr 63 (TOP SECRET [redacted]

CIA. PIC/JB-114/60, Possible Missile Associated Facility, Sevastopol, USSR, Jul 60 (TOP SECRET [redacted] 25X1

Navy PIC. 607/62-S, Probable Missile Handling Facility Associated with Krupnyy-Class DDG, Sevastopol Naval Base, USSR, Mar 62 (SECRET [redacted] 25X1C

Navy PIC. NTK-PD 00029, Naval Facilities in the Dunay Area, USSR, May 62 (TOP SECRET [redacted] 25X1

REQUIREMENT

CIA. OSI/R-75/62-KH

NPIC PROJECT

JN-136/62