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basic imagery interpretation report

Petropavlovsk Vehicle Assembly Plant and Petropavlovsk Probable Missile Assembly Facility (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

USSR

Top Secret

25X1 RCA-09/0010/79 AUGUST 1979 Copy 57

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	Top Sec	ret RUFF			25X 25X
INSTALLATION OR ACT	VITY NAME			LOUNTRY	
1	Vehicle Assembly Plant Probable Missile Assembly	• Facility		UR	
UTM COORDINATES	GEOGRAPHIC COORDINATES 54-53-52N 069-09-55E 54-52-47N 069-16-43E	CATEGORY BE NO		NIETR NC	25X
MAP REFERENCE ACIC, USATC.	Series 200, Sheet 0163-7,	scale 1.200 000		I	
TAFEST IMAGERY USED		NEGATION DATE II rea	ured		
		NA			25 X

ABSTRACT

1. (TSR) This is the initial report on Petropavlovsk Vehicle Assembly Plant (VAP), USSR, and the apparently associated Petropavlovsk Probable Missile Assembly Facility currently under construction. The reporting period for Petropavlovsk VAP (formerly known as plant Borki, Petropavlovsk) is from ______ and the reporting period for Petropavlovsk Probable Missile Assembly Facility is from _______

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3. (TSR) Petropavlovsk Probable Missile Assembly Facility was first observed in December 1975 and is still under construction. The layout of the facility is similar to that of the Votkinsk Missile Final Assembly and Checkout Facility

4. (S) This report includes a location map, a line drawing, three photographs, and three tables.

INTRODUCTION

5. (TSR) Petropavlovsk is in the Soviet Republic of Kazakhstan, approximately 280 kilometers (km) west of Omsk (Figure 1). The wall-secured Petropavlovsk Vehicle Assembly Plant



FIGURE 1. LOCATIONS OF PETROPAVLOVSK VEHICLE ASSEMBLY PLANT AND PROBABLE MISSILE ASSEMBLY FACILITY, USSR

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(VAP) is in the northern section of Petropavlovsk and is connected by rail to the Trans-Siberian rail line. The isolated Petropavlovsk Probable Missile Assembly Facility is approximately 9 km east of Petropavlovsk and is secured by a wall and served by rail.

BASIC DESCRIPTION

Petropavlovsk Vehicle Assembly Plant

7. (TSR) Petropavlovsk VAP comprises approximately 115 structures, totaling 171,279 square meters of floorspace (Figures 2 and 3, and Table 1). The plant has five assembly/fabrication buildings, a forge, and a variety of support buildings. Electricity and steam are supplied by the Petropavlovsk power and heating plant which is nearby.

8. (TSR) In 1967 the total floorspace at Petropavlovsk VAP was 112,668 square meters which included 56,669 square meters of assembly/fabrication floorspace. Over the next seven years (1968 to 1974), a total of 46,112 square meters was added, including 20,736 square meters of assembly/fabrication floorspace. From 1975 through March 1979, an additional 12,499 square meters of floorspace were added; approximately 25 percent was assembly/fabrication floorspace. The only significant construction underway at present is a probable assembly/fabrication building with approximately 12,600 square meters of floorspace. This building is in an early stage of construction (item 116, Figure 3).

	25)
Only three products have been identified from verhead imagery—an agricultural fertilizer trailer, the SCUD B transporter-erector-launcher IFEL), and a BTR-60 vehicle probably modified for the SS-16/-20 systems (Table 2).	25)
	25)
By 1964 the plant contained 70 percent 56,669 square meters) of its current assembly/fabrication floorspace. The low number of fertilizer railers observed from 1967 through 1972 and the identification of only two MAZ-543 chassis probably for SCUD B TELs) in August 1967 appear inconsistent with the amount of assembly/fa- rication floorspace available at Petropavlovsk VAP prior to 1972. The low product count indicates that either the total floorspace was not being used or the plant was involved in the manufacture of additional products.	25)
11. (TSR) On imagery of ten canvas-covered BTR-60s were observed at etropavlovsk VAP; however, a BTR-60 was not seen again until From July to mid- lovember 1978, between five and eight canvas-covered BTR-60s were identified at the plant. The mall number observed suggests that the vehicles were probably modified, rather than produced, t this plant.	25) 25)
	25
	1
13. (TSR) Two MAZ-543 chassis were observed next to a grease rack in a fence-enclosed rea on however, a MAZ-543 chassis was not seen again until During the following year and a half, MAZ-543 chassis were observed in the shipping and ecciving area in quantities ranging from two to 11.	25
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FIGURE 3. PETROPAVLOVSK VEHICLE ASSEMBLY PLANT

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Table 1. Buildings and Structures at Petropavlovsk VAP (Items keyed to Figure 3)

This table in its entirety is classified TOP SECRET RUFF

		Dime	nsions			Year				Dime	ensions			Year	
	Prob Function/ Description	(m) L	w	н	Floorspace* (sq.m)	Com- pleted**	Comments	Item	Prob Function/ Description	(m) L	w	н	Floorspace* (sg.m)	Com- pleted**	Comments
	Description	L	~~		(34 11)	pieteu			Dealingtion						
	Stor bldg	5	5	2	10	1974		е		30	13	7	(390)	1964	
-	Stor bldg	12	Irreg	2	34	1974		f	Admin/engineering sect	73	8	11	(1.752)	1964	3 stories
	Stor bldg	8	4	3	32	1974		58	Stor bldg	7	. 4	3	28	1974	
	Vehicle maint bldg	47	11	2	517	1973		59 60	Support bldg	19 6	Irreg 3	8	300 18	1974 1976	
	Stor bldg	15	6	3	90	1969 1976		61	Support bldg Shop bldg	27	3 13	3	351	1976	
	Vehicle maint bldg	30	18	7	540	1976		62	Stor bldg	36	12	7	432	1964	
	Vehicle maint bldg	30	19 7	3	570 56	1967		62	Assem/fab bidg	30	12		28.965	1977	No roof ventilators o
	Vehicle maint bldg Vehicle maint bldg	8 8	7	3	56	1972		03	Assemblad blog				20,505		stacks, prob assem
•	Venicie maint bldg Vehicle maint bldg	13	7	3	91	1972									only
	Venicle maint bldg Vehicle maint bldg	8	7	3	56	1969		а	Assem sect	288	72	18	(20,736)	1974	onny
	Vehicle maint blog Vehicle maint blog	58	6	3	348	1969		b	Admin/engineering sect	72	13	14	(2,808)	1974	3 stories
	Vehicle maint bldg Vehicle maint bldg	00	0	3	1,729	1303		c			13	14	(5,421)	1974	3 stories
	Vehicle maint blog Vehicle maint sect	61	19	5	(1,159)	1964		64	Assem/fab bldg	100			27,304		0 010-100
	Vehicle maint sect	30	19	6	(570)	1968		a	Assem sect	227	85	10	(19,295)	1964	
	Underground stor bldg	30	15	0	(570)	1300		b	Final assem sect	94	Irreg	14	(5.459)	1964	
	Support bida	18	10	5	180	1964		c c	Admin/engineering sect	85	10	10	(2,550)	1964	3 stories
	Support bldg	4	4	2	16	1974		65	Support bidg	10	6	4	60	1967	
	Support bldg	4	2	5	8	1977		66	Support bldg	18	11	5	198	1974	
	Support blag Admin blag	40	14	4	560	1964		67	Control bldg for			-			
	Support bidg	40	5	5	30	1964			underground tanks						
	Support blag Admin blda	0	5	5	2.576	1507		а	Control bldg	66	Irreg	3	444	1974	
	Admin bldg Admin sect	29	19	5	2,576	1964		b	Underground tanks	8	Dian				Approx 15 tanks
	Admin sect Admin sect	29	19	5	(551)	1964		68	Support bldg	12	6	7	72	1964	
	Admin sect Admin sect	29 67	11	8	(1,474)	1964	2 stories	69	Shop bldg	66	13	5	858	1964	
	Admin sect Support bldg	40	13	4	520	1964	2 0.0100	70	Support bldg	18	12	3	216	1976	
	Support bldg Support bldg	14	7	4	98	1972		71	Support bldg	6	5	5	30	1964	
	Support bldg	21	19	5	399	1972		72	Support bidg	25	19	8	475	1972	
	Admin bidg	33	13	12	12,887	1964	3 stories	73	Receiving/stor bldg	152	Irreg	11	9.084	1964	3 stories
	Support bldg	28	18	6	504	1977	3 stones	74	Stor bldg	7	Irreg	4	57	1964	0 0101100
		115	20	18	9,200	1964	4 stories	75	Substation	38	6	5	228	1964	
	Engineering/shop bldg Admin blda	115	20	10	9,200	1904	4 stones	76	Support bidg	3	3	3	12	1974	
	Admin bidg Admin sect	26	20	9	(1,040)	1973	2 stories	77	Forge bldg	Ŭ	Ŭ	Ų	8.562		
	Shop sect	37	19	9	(1,406)	1964	2 stories	a	Forge sect	120	49	16	(5.880)	1972	
	Shop bidg	36	Irreg	9 4	340	1969	2 stones	b	Forge sect	72	25	21	(1,800)	1972	
-		40	meg 8	4	320	1964		c	Admin sect	49	9	10	(882)	1972	2 stories
	Stor bldg			4	320	1964		78	Stor bldg	10	4	3	40	1974	2 310/103
	Support bldg	6	5		30	1967		79	Stor bldg	24	13	2	312	1976	
	Civil defense bunker	85	19	20	6.460	1964	4 stories	80	Stor bldg	7	6	2	42	1976	
	Engineering/shop bldg	85 40	Irreg	20	1.100	1964	4 stories 8 tanks adjacent to this bldg.	81	Shop/stor bldg	61	24	27	1,464	1976	4 stories
3	Support bldg	40	irreg	/	1,100	1964	volume of each tank is 0.25 cu m	82	Stor bldg	6	3	4	18	1967	1 Stands
4	Stor bidg	23	4	2	92	1969	volume of each tank is 0.25 cu m	83	Stor bldg	24	4	3	96	1967	
	Stor bldg	23	6	3	48	1909		84	Support bldg	30	30	8	900	1976	
	Stor bldg	13	3	2	39	1972		85	Stor bidg	31	Irrea	4	717	1964	
	Cooling tower	16	9	10	35	1964		86	Stor bidg	30	7	3	210	1967	
	Support bldg	18	Irrea		172	1967		87	POL stor tank		n 9	7		1967	445 cu m
	Security bldg	7	6	4	42	1976		88	POL stor tank	Diar		7	_	1967	445 cu m
	Stor bldg	6	5	2	30	1978		89	Pumphouse	9	7	3	56	1972	
	Stor bldg	12	5	3	60	1978		90	Steam distribution bldg	24	13	5	312	1976	
	Assem/fab bldg	12	5	5	4.650			91	Steam distribution bldg	8	6	3	48	1967	
	Assem/fab sect	73	Irreg	10	(3.570)	1976		92	Steam distribution bldg	7	6	4	42	1967	
	Assem/fab sect	60	meg 9	11	(1.080)	1977	2 stories	93	Support bldg	13	6	4	78	1967	
	Shop bldg	57	12	6	684	1978		94	Receiving/shipping bldg	79	25	13	1,975	1967	
	Stor bldg	12	5	3	60	1977		95	Stor bidg	24	11	3	264	1976	
	Stor bldg	16	5	2	90	1974		96	Shop bldg	34	Irreg	4	395	1973	
	Stor bldg	20	12	2	240	1977		97	Shop bldg	20	Irreg	Irreg	431	1964	
	Stor bidg	73	13	4	949	1973		98	Carpentry shop bldg	19	13	8	247	1973	
	Stor bldg	9	8	5	72	1972		99	Shop bldg	19	Irreg	5	158	1973	
	Stor bidg	44	6	3	264	1972		100	Shop bldg	22	7	4	154	1973	
	Carpentry shop bldg		Ŭ	Ū	7.920			101	Stor bidg	55	Irreg	5	361	1977	
	Carpentry shop sect	72	71	9	(5,112)	1967		102	Support bldg	61	Irreg	3	623	1964	
	Admin sect	72	13	12	(2,808)	1967	3 stories	103	Stor bidg	13	3	2	39	1973	
-	Support bldg	5	5	10	25	1976		104	Stor bldg	14	6	2	84	1967	
	Stor bldg	6	5	4	30	1967		105	Sawmill	23	Irreg	4	226	1967	
	Support bldg	9	5	6	45	1967		106	Stor bldg	5	4	3	20	1973	
-	Stor bidg	7	6	5	42	1967		107	Stor bidg	12	Irreg	3	24	1973	
	Stor bidg	37	9	3	333	1967		108	Stor bidg	14	8	3	112	1967	
	Assem/fab bldg	5,	~	~	12.456			109	Support bldg	19	Irreg	7	567	1973	
	Assem/fab sect	168	62	8	(10,416)	1964		110	Support bldg	9	6	20	54	1976	Covered tanks
	Admin/engineering sect	68	10	12	(2,040)	1964	3 stories	111	Support bldg	12	Irreg	Irreg	145	1975	
	Assem/fab bldg	00	10	12	24,088	1004	0 310/103	112	Support bldg	7	4	3	28	1976	
		259	73	11	(18.907)	1964		113	Support bldg	30	13	11	360	1976	
	Assem/fab sect	259 66	31	26	(18.907) (2.046)	1964		114	Support bldg	10	6	5	60	1977	
				20	12,040)	1004			~~PP				00		
b	Final assem sect Admin/engineering sect	31	9	11	(837)	1964	3 stories	115	Support bldg	31	Irrea	4	289	1976	

*Numbers in parenthesis are not included in total floorspace **Buildings complete before 1964 are indicated as complete in 1964

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	25 X 1
On the only occasion when	25X1
MAZ-543 chassis were observed without canvas covering, on imagery of two of the six	25X1
chassis appeared to have a minor frame modification (Figure 4). This modification could indicate	
that the chassis will eventually be used in different vehicles. While there is no evidence which	
supports the contention that the specialized SS-22 and SS-X-23 MSE will be assembled on the	
	5X1
SCUD B TEL association.	

Table 2.	
Products Observed	
at Petronavlovsk VAP	

at Petropavlovsk VAP This table in its entirety is classified TOP SECRET RUFF

Date	MA Z-543 Chassis	BTR	Agricultural Fertilizer Trailer	Remarks	
	2		40	The chassis was adjacent to a grease rack	25
				& fence secured	
	_		4		
	_	—	60		
	_		12		
	_	_	35		
	_	—	300	Large increase in trailers coincides with const	
			200-300	of forge; number of	
	_		200-300	trailers observed during the remainder of the reporting period fluctuated between 200 & 300	
			200-300	200 & 300	
			200-300		
	_				
	—		200-300		
	_	10	200-300		
	_		200-300		
	2 4 (prob)		200-300 200-300	Shipping-receiving area partially cloud covered	
	11		200-300		
	11		200-300		
	11		200-300		
		_	200-300		
	4	_	200-300		
	6	_	200-300	2 chassis may have a minor mod	
			200-300		
		6	200-300		
	2	8	200-300		
	5 prob	4 prob 4 poss	200-300		
	3	4 poss 8	200-300		
	4 (2 prob)	7	200-300		
	4 (2 prob)	7	200-300		
	4	7	200-300		
	4	5	200-300		
	_	5	200-300		
		5	200-300		
	_	_	200-300		
	_	_	200-300		
	_	_			
			200-300		
	-		200-300		
	-	_	200-300		
		—	200-300		

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25X1 Series production may be occurring in building 63 (Figure 25X1 The building completion date (1974) corresponds to the probable time of SS-21 prototype 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1		Top Secret RUFF	25.	X1
Series production may be occurring in building 63 (Figure 25X1 The building completion date (1974) corresponds to the probable time of SS-21 prototype 25X1 mbly.] 25X1				
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The building completion date (1974) corresponds to the probable time of SS-21 prototype 25X1 smbly,			25	X 1
The building completion date (1974) corresponds to the probable time of SS-21 prototype 25X1 smbly,		Series production may be occurring	g in building 63 (Figure 25)	X 1
25X1	The building completion	1 date (1974) corresponds to the probable tir	ne of SS-21 prototype	
				5X1
7				5X1
7				
7				
7				

Table 3. Buildings and Structures at Petropavlovsk Probable Missile Assembly Facility (Items keyed to Figure 5)

This table in its entirety is classified TOP SECRET RUFF

		Dimer	nsions			
ltem	Prob Function/	(m)			Floorspace*	Comments
	Description	L	W	н	(sq m)	
1	Support bldg	19	13	3	247	
2	Support bldg	7	3	4	28	
3	Support bldg				136	
а	Support sect	8	3	—	(24)	Height undet
b	Support sect	14	8	3	(112)	
4	Steamplant	36	20	11	720	Height of stack is 44 m
5	Prob missile assem bldg				2,134	In late stage of const
а	Final assem sect	66	19	19	(1,254)	
b	Assem sect	80	11	10	(880)	
6	Footings		_	_	_	Bldg in early stage of const
7	Prob missile assem bldg	59	18	12	1,062	In late stage of const
8	Support bldg	10	10	5	100	
9	Support bldg				364	
а	Support sect	28	7	5	(196)	
b	Support sect	24	7	4	(168)	
0	Support bldg	20	13	5	260	
1	Support bldg	8	5	3	40	
2	Admin/support bldg				250	
а	Support sect	21	10	4	(210)	
b	Admin sect	8	5	5	(40)	
3	Admin bldg	30	14	6	840	2 stories

*As some structures are currently under construction, some dimensions may differ when the buildings are complete. Numbers in parenthesis are not included in total floorspace.

Petropavlovsk Probable Missile Assembly Facility

20. (TSR) A probable r	nissile assembly facil	ity is under co	nstruction in a forested area
approximately 9 km east of Pe	tropavlovsk (Figure 5	and Table 3). C	Construction was first observed
on imagery of			embly building (item 7, Figure
5) were observed on	Footings for ano	ther probable m	issile assembly building (item
5) and the framing for build	ing 7 were observed	on	Both of these buildings
appeared to be in a late stage	of construction on		New footings (item 6) between
buildings 5 and 7 were identifi	ed on	The probable	missile assembly buildings are
served by rail.		-	

21. (TSR) This facility is probably associated with Petropavlovsk VAP. Final assembly of Soviet SRBMs takes place at both Petropavlovsk VAP and Votkinsk Missile Machine and Steel Plant 235. Petropavlovsk Probable Missile Assembly Facility has an isolated location and plant layout similar to that of Votkinsk Missile Final Assembly and Checkout Facility. The distinctive, high-bay, rail-served building (item 5) at the Petropavlovsk facility is almost identical to assembly buildings at the Votkinsk facility. Significant similarities exist between the two Petropavlovsk plants and the two respective Votkinsk plants. These similarities indicate a probable association between the two Petropavlovsk plants which will be similar to the known relationship of the two Votkinsk plants.⁹

22. (TSR) Petropavlovsk Probable Missile Assembly Facility and Votkinsk Missile Final Assembly and Checkout Facility will probably have similar functions—the final assembly and checkout of solid-propellant missile systems. The Votkinsk facility is heavily involved in the assembly of ICBM/IRBM systems. The Petropavlovsk facility will have a similar capability; however, its activities may be restricted to the assembly and checkout of SRBM (and other tactical) systems associated with Petropavlovsk VAP.

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REFERENCES

IMAGERY

(TSR) All available KEYHOLE imagery acquired between		nd the information	25X1
cutoff date of was used i	n the preparation of this report.		25X1

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0163-7, scale 1:200,000 (UNCLASSIFIED)

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