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RCA-15/0021/70

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Basic Imagery Interpretation Report



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

ACTIVITY AT TYURATAM MTC AND PLESETSK MSC JULY-DECEMBER 1969

25X1

STRATEGIC SSM & SPACE FACILITIES
USSR
FEBRUARY 1970

COPY NO. 119



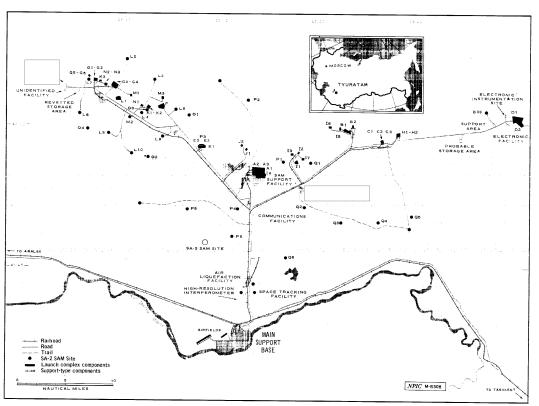
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INSTALLATION OF ACTIVITY NA Tyuratam SSM C	omplex (Tyuratam Missile T	est Center)	COUNTRY
UTM COORDINATES NA	GEOGRAPHIC COORDINATES 45-56-40N 063-28-00E	CATEGORY TOE MILIABED	COMIREX NO. NIETB NO.
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LATEST IMAGERY USED		NEGATION DATE (If required)	
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Plesetsk SSM Co	mplex (Plesetsk Missile and	Space Center)	UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATECORY RENUMARER	COMIREX NO. NIETB NO.
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LATEST IMAGERY USED		NEGATION DATE ((frequired)	
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	АВ	STRACT	
Significant period include hicle: the post sixth site (sit launch pad Groutheast of 1 of the air lique space tracking complex C, lau The Pless interpretabilit tified in Augu The data betical and nu those elemention on each rectly related	e Q6) of launch group Q; i; new construction at laur aunch site I1; and construction facility. Missile activity durinch pad G2-A, launch site I7 atsk Missile and Space Center y. A second dummy launch site 1969. derived from photography is americal sequence through lates of the test centers not alpost these components is preto a particular KEYHOLE reincluded where pertinent.	aratam Missile Test Center or obably caused by a malach vehicle on launch paragraph on of launch group P; the dismantling of the grach area G3-G4; new union of a new road- and ration of a continued on the reporting period was partially covered by the dismantled dummy lates presented in textual for aunch complexes, groups, obabetically or numerically esented chronologically a mission. Annotated photographs	functioning launch ved J2 on ne identification of the antry formerly used at identified construction all-served facility north second pedestal at the was observed at launch photography of limited unch site B, was idenm proceeding in alphand sites, followed by ly designated. Informand in most cases is di-
		ODUCTION	
various formareporting, alt sess the sign port is intend stitute for deterest. Locat reports has be published in of the composition of the composi	ived information of the Souts and publications, as photough timely and expedient ificance of developments. The determinant of the education of the education interpretation in the enomitted from this composition of the centers. Tables on the centers.	tography has been acquired, makes it difficult for us the arrangement of photoses. However, the report is reports and memoranda istorical information which are the previous reports a summary of	red and exploited. Such ers to correlate and asderived data in this renot intended as a subon specific areas of inch is available in other tort ¹ in this series was photographic coverages

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FIGURE 1. LOCATION MAP, TYURATAM MISSILE TEST CENTER

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	IOP SECKET	I	CA-15/0021/70	25X1
	BASIC DESCRIPT	TON		
		ION		
Tyuratam Missile Test C	enter (Figure 1)			
were observed in the con port facility, the new bui	LAUNCH COMPLE cles such as SS-6 transport inplex, but no missile activition lding at the northeast end ion is still in progress on	er-erectors, cryogen cars ty was identified. In the of the spacecraft facility	e complex sup-	
	LAUNCH COMPL	EX B		
equipment which are usu	erector, several rail cars, an ually observed at launch co ivity or significant changes	omplex B were seen dur	ing the report-	
	LAUNCH COMPL	EX C		
tion on the loop road at the an erected missile was of were noted during the rement were observed at value probable SS-9 stage trans	wo missiles, probably SS-7 he east side of launch pad observed on launch pad Co eporting period. Numerous arious points throughout th porters were observed near	C1 (Figure 2). On 2. No significant chang pieces of SS-7 ground the launch complex and of	res in facilities support equip- canvas-covered	25X1 25X1
complex support facility.				25X1
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	I ALINICI'	I COMPLEY D		
Summary of Activ		I COMPLEX D		
Vehicles and	equipment normal to t	he complex were observed hanges in facilities have be	during the reporting en observed.	
	LAUNCH	I COMPLEX E		
at launch pads E: ever, on modifications had equipment were of	st and September 1969, 1 and E2 appeared to have they appeare been performed on the	the tall steel probable light we been in the process of he d to be intact, suggesting e towers. Numerous small verts in the complex on that derived.	that maintenance or ehicles and pieces of	25X1
		EST SUPPORT FACILITY	5	
	formerly referred to as	the support facility betweening the reporting period.	launch complexes E	
	LAUNC	H COMPLEX F		
the parked on the apr	nal to the complex were right silo door was open on in front of it. A secon	observed during the report n and a long vehicle or pie nd long vehicle or piece of tht silo. No changes in fac	ce of equipment was equipment was park-	25X1 25X1
				25X1
				•
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	25/(1
LAUNCH COMPLEX G	
Summary of Activity	
At launch area G1-G2, the gantry on the G1 side of the launch area has been disman-	25X1
tled (Figure 3). On a missile component approximately	25X1
(100 feet) in length was observed in a horizontal position at launch pad G2-A. On a missile was observed erected on launch pad G2-A. Construction continues	25X1
on the structure in an excavation north of the launch area.	23 X I
Vehicles and equipment normally observed in launch area G3-G4 have been observed	
during the reporting period.	
A second arch-roofed building is under construction at the electronics facility south of	
launch area G3-G4. The gantry was positioned on G3 on and on G4 on	25X1
On a rectangular excavation was	25X1
observed at the northwest corner of each launch pad and the one at G3 appeared to have	
a concrete base in it (Figure 4). At launch area G5-G6, SS-11 ground support equipment and missile canisters were reg-	
ularly observed. Approximately 90 canisters are now in open storage in the launch area.	
The gantry has been parked in its usual position at the switch in the gantry tracks.	
In the complex support facility, the usual rail cars and miscellaneous vehicles were	
observed. Construction continues on four buildings in the SS-11 support area, and nor-	
mal SS-11 ground support equipment was observed there.	
LAUNCH COMPLEX H	
Summary of Activity	
No missile activity or significant changes in facilities were observed during the re-	
porting period. Several long vehicles, probably fuel trailers, were parked near launch pad	
H2 on Tank and cryogen cars were regularly observed on the rail	25 X 1
spurs in the launch area.	
LAUNCH GROUP I	
Summary of Activity	
No missile activity or significant changes in facilities were observed at sites II	
through I6 during the reporting period. A recently constructed unidentified facility is approximately 1 nautical mile southeast	
of launch site II (Figure 5). It consists of an improved road serving two structures ad-	
jacent to a large concrete hardstand.	
Jucotte to a mago conterese management.	

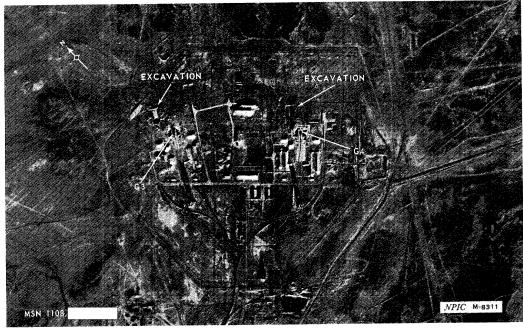


FIGURE 4. LAUNCH AREA G3-G4, TYURATAM LAUNCH COMPLEX G

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	25X1
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At site 17, two stages of a missile were observed at the center silo on (Figure 6), and on three long vehicles or pieces of equipment at the north	25X1
(Figure 6), and on three long vehicles or pieces of equipment at the north silo appeared to have been involved in a fueling operation.	25 X 1
sno appeared to have been hivorved in a racing operation.	
LAUNCH COMPLEX J	
Summary of Activity	
Extensive damage to the pad and ancillary structures, apparently the result of a large explosion, was observed at launch pad J1 on (Figure 7). On	25 X ′
explosion, was observed at launch pad J1 on (Figure 7). On a launch vehicle was observed erected on launch pad J2, and it was also observed at that	
position on Construction was continued on the probable heating and	25X1
power plant which is under construction west of the vehicle assembly building.	
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had previously be or other changes		ight to have been comp ved during the reportin	with each sil deted. No m g period. Th	o. This work	25X1
	LAUN	CH GROUP L			
or pieces of equi site L9. A few mand L9 on	pad to launch site L4 has oped access road. On pment were observed at iscellaneous vehicles and and at sites I of equipment was obse	two long a site L4 and one small d pieces of equipment v.2, L3, and L4 on	nd several s vehicle was vere observe	hort vehicles	25X1 25X1 25X1
	LAUNG	CH GROUP M			
Summary of Activ No missile acting period.			served durin	g the report-	
	LAUNG	CH GROUP N			
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					25 X 1

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	25X1
the sile eneming and a small grane is on	
At N3, a linear horizontal object is across the silo opening, and a small crane is on the apron near the silo. A large crane and probable steel lattice tower components are positioned west of N3 but within the loop road.	
The only significant activity observed at sites of the group during the reporting period was the presence of a long vehicle or piece of equipment at N2 on	25X1
LAUNCH GROUP O	
Summary of Activity No missile activity or significant changes in facilities were observed during the reporting period.	
LAUNCH GROUP P	
Summary of Activity All six sites of the group continue to exhibit type IIIC site characteristics and the sites were probably externally complete in December 1969. Launch site P3 is the control	
site for the group (Figure 9). On approximately ten vehicles or pieces of equipment were observed at site P6. One of these is long, and it is positioned in front of, and near the open silo. This activity may indicate facilities checkout, or may be a loading operation in progress.	25 X 1
CONTROL BUNKER LO SITE SUPPORT BUILDING IZAUNCH COMPLEX E	
PROBUP SUPPORT BUILDINGS	

FIGURE 9. CONTROL SITE P3, TYURATAM LAUNCH GROUP P

MSN 1108,

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LAUNCH GROUP Q

Summary of Activity

A sixth site in this group was identified and designated site Q6 (Figure 10). Construction continues on all six sites of the group and they continue to exhibit type IIIC characteristics. Construction has not progressed sufficiently on any of the silos to make a positive identification of their type. Launch site Q2 has been identified as the control site for the group.

TRACKING FACILITIES

Summary of Activity

At the Tyuratam Space Tracking Facility, a probable pedestal is under construction on the base recently constructed to the east of the control building.

No significant changes in facilities were noted at the Tyuratam Rangehead Tracking Facility.

SUPPORT FACILITIES

Summary of Activity

No unusual activity or significant changes in facilities were observed at the main support base, the air liquefaction facility, or at the storage facilities along the west side of the main north-south rangehead road.

The graveyard at the main support base appears to have been enlarged by an estimated 40 graves since May 1969. This seems to be an unusually large expansion in a short period of time and possibly may have some relation to the disaster at launch complex J.

New Construction

Two areas of unidentified new construction are noted along the main north-south rangehead road (Figure 11). The first of these is approximately 5 nautical miles (nm) north of the air liquefaction facility. A rail spur was extended from the air liquefaction facility to that point, and a road was subsequently constructed from the main north-south rangehead road to the end of the new rail spur.

The second area of new construction is approximately 1 nm west of the storage facility which is opposite the air liquefaction plant and on the west side of the main northsouth rangehead road. It consists of a small square structure flanked on its north and south sides by larger rectangular structures that almost appear to be mirror images of each other. A road has been constructed from the storage facility to the new construction.

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Plesetsk Missile And Space Center

In the six-month period from June through December 1969, launch sites 1, 2, 3, 4, 5, 6, 8, 9, 10, 22, the construction support facility, launch sites 9 and 10 support facility at the Plesetsk Missile and Space Center were observed only once on Mission 1108-2 (Figure 12) and the interpretability of this coverage was not adequate to permit an analysis of activity.

A second dummy launch site, designated dummy launch site B, was identified in Au-

Due to the very poor interpretability of Mission 1108-2, this mission is not included in Table 2, the photo-coverage listing for the individual components of the center.

LAUNCH SITE 7 (SS-8 FACILITY)

Summary of Activity

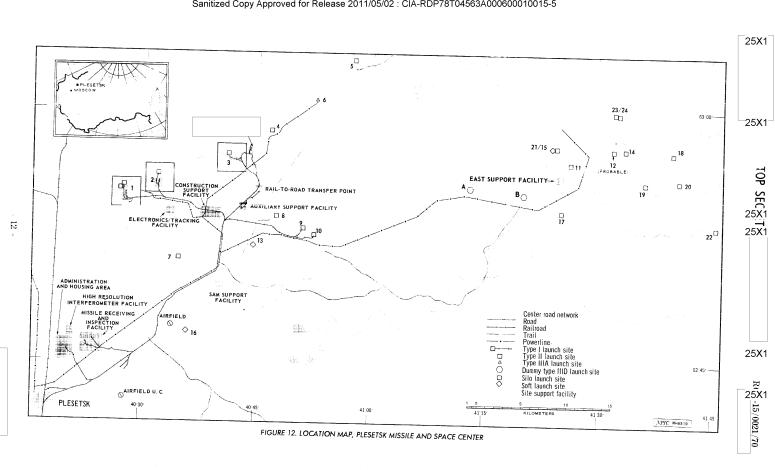
Coverage of launch site 7 was very limited with only one interpretable coverage on which the site was partially observed. No activity was observed.



FIGURE 11. SUPPORT FACILITIES ALONG THE MAIN NORTH-SOUTH RANGEHEAD ROAD, TYURATAM MISSILE TEST CENTER

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LAUNCH SITE 13 (SL-8 SPACE LAUNCH FACILITY)	
Summary of Activity No activity has been observed at this site during the reporting period.	
LAUNCH SITES 11, 14, 17, 19 20, 23, 24 and LAUNCH CONTROL FACILITY 12A (SS-13 FACILITIES)	
Summary of Activity All SS-13-related facilities except launch site 22 were covered at least once on high-resolution photography. On at launch site 14, one van was on the apron adjacent to the silo. At	25X1
launch site 17, three vans were adjacent to the silo, one was on the silo apron, and one was on the site access. At launch site 11, the silo door of the east silo was open and a circular light-toned probable environmental cover was observed over the silo aperture.	
On at launch site 11, the silo door was still in the open position and the probable environmental cover was still in place. Two vans were adjacent to the open silo door, and a truck-mounted crane was parked on the west side of the open silo. No other activity was observed.	25X1
LAUNCH SITES 15, 16, and 21 (ASSOCIATED MISSILE SYSTEM UNKNOWN)	
No activity was observed at launch site 15. Construction activity at site 21 remained suspended. On three vans were on the access road to site 16. No other activity was observed during the reporting period.	25X1
DUMMY LAUNCH SITES A AND B	
Description Dummy launch site A at the Plesetsk Missile and Space Center was the first of two dummy launch sites constructed at the center. When dummy site A was observed in Jandaumy launch sites constructed at the center.	
	25 X 1
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uary 1969, the site signature closely resembled that of a completed type IIID launch site, a type not previously deployed at Plesetsk and it was designated possible launch site 26.

The construction of a second such site, designated dummy site B (Figure 13), during July 1969 provided additional evidence that possible launch site 26 was, in fact, a dummy site.

Dummy site B was first observed in August 1969, but the site was not present in June 1969. The field in which the site was constructed was first cleared of trees in October 1967. No activity was observed in the cleared area until July 1969 when construction of the site support building was begun. The support building was never completed, and no other activity was observed in the cleared area until August 1969 when site B was observed to be nearly complete. The absence of a silo itself and the less than two months' construction time indicate that this is not an operational type IIID site.

SUPPORT FACILITIES

Summary of Activity

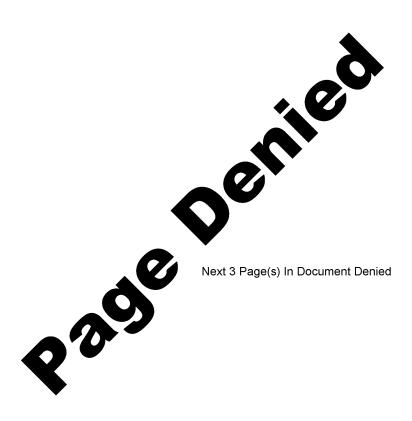
Main Support Base. Minor construction continues throughout the housing area. Two large warehouse-type buildings are under construction on the east side of the facility between the main power substation and communications facility 1. A new rail siding is being constructed from the receiving yard tracks and leading into the receiving area.

Rail-to-Road Transfer Point, Except for the presence of normal numbers of rail cars, no significant activity was observed at the transfer point.

Propellant Storage and Handling Facility. Construction at this facility has not progressed since the previous report. The only portion of the facility which appears to be active is the heating plant which also supports the new airfield. No other activity was observed during the reporting period.

missile Receiving and Inspection Facility. On	an SS-13 transporter-	25X1
erector was observed on the hardstand in front of the north but ceiving area. Two rail cars were observed at the west receiving one rail car was observed there on No other activity we reporting period.	area on and	25X1 25X1
SS-13 GROUND SUPPORT EQUIPMENT ARE	ZA	
Summary of Activity		
Two SS-13 transporter-erectors were at the SS-13 silo mockup or porter-erector was in the raised position over the silo mock up on	and a trans-	25X1 25X1

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	DEFEDENCES			
	REFERENCES			
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MAPS OR CHARTS				
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1. NPIC. Complexes (Tyuratam Mi	RCA-15/0007/70, Developments ssile Test Center and Plesetsk Missile	and Space Center), January-	June 1969, Oct 69	25X
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RELATED DOCUMENTS				
NPIC.	Launch Vehicle on Launch Pad J2,	TTMTC, USSR, Aug 6	9 (TOP SECRET	25X
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NPIC. SECRET	RCA-15/0003/70, Tyuratam Launc	h Group I (Sites II-17), US	55 <i>R</i> , Sep 69 (10)	25X
	RCA-15/0003/70, Tyuratam ICBM	Launch Test Site C1/2/3, U	<i>SSR</i> , Jan 70 (TOP	25X
SECRET			SSR Sen 69 (TOP	25X
NPIC. SECRET	RCA-15/0002/70, Plesetsk Space La	unch Facilities 1, 2, and 3, 0	33K, 3cp 03 (1 O1	25X 25X
NPIC.	RCA-15/0010/70, Plesetsk Dummy	Launch Sites A and B, US	SR, Nov 69 (TOP	25 X
SECRET				25X ²
REQUIREMENTS				
COMIREX - P03, P05 NPIC Project 220507AA				
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"All KEY	HOLE photography of the Tyur	ratam Missile Test Center	and the Ples	setsk Missile and	Space Cen-
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compiling	this report.				

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