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basic imagery interpretation report

Akhtubinsk Flight Test Center (S)

MISSILE RANGES: AIR-LAUNCHED FACILITIES
25X1
USSR

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RCA-12/07/11/79
MAY 1980
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nstallation or activity name					COUNTRY	
Akhtubinsk Flight Test Center (Also	see below)				UR	
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See "Abstract"		NA				
Installation Name	Coordinat Geograph		BE No	COMIREX No	NIETB (MRN) No	_
Akhtubinsk/Vladimirovka Airfield Akhtubinsk/Vladimirovka Area Airfield Akhtubinsk/Vladimirovka ASM Support Complex Akhtubinsk/Vladimirovka ASM/AAM Support Complex Akhtubinsk/Vladimirovka AAM and AS Storage Facility Akhtubinsk/Vladimirovka Air Warning Radar Facility TALL KING	046-12-18 48-17-10 046-11-00	E Z E Z E Z E Z E Z E Z E Z E Z E Z E Z				25X
I. (S) Akhtubinsk Flight Te			Soviet facil	ities support	ing advanced.	
integrated airborne weapons system and their associated weapons syster radar site, each of which is discussed	is testing. The ems. The faci	e center is capable lity consists of six	of supporting	all known	Soviet aircraft	
2. (S) This report updates the cludes a location map, four tables date of the latest imagery used for the	, and 19 ann				1979, and indate and the	25X ²
	INTR	RODUCTION				
3. (S/WNINTEL) Akhtubinsk ly distinct areas (Figure 2): Akhtubinsk/Vladimirovka ASM Suf Akhtubinsk/Vladimirovka ASM Stoking. The flight test center is the weapons systems testing. The cente weapons systems. Significant change significant aircraft/weapons/electror numbering system used for this repreports. ^{1,2}	c Flight Test ubinsk/Vladin oport Complex orage Facility, c largest of the r is capable of es observed whics systems of	Center (Figure 1) nirovka Airfield, A Akhtubinsk/Vlad and Akhtubinsk A e Soviet facilities s of supporting all knithin the functional observations since the	khtubinsk/Vimirovka ASN air Warning (Aupporting adviown Soviet a areas since at date, are d	ladimirovka M/AAM Sup AW) Radar I vanced, integ ircraft and the iscussed in the	Area Airfield, port Complex, Facility TALL rated airborne heir associated as well as nis report. The	25)
	BASIC	DESCRIPTION				
Construction Activity						
Akhtubinsk/Vladimirovka Airfield						
Akhtubinsk/Vladimirovka Airfield 4. (TSR) Akhtubinsk/Vladim Construction activity was observed in						

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- 5. (TSR) Flightline Area. Minor changes were observed along the flightline of the airfield. From April to June 1979, asphalt resurfacing was completed on approximately one-third of the central parking apron (item 9, Figure 3). In the helicopter dispersal area at the southeast end of the airfield, an operations/flightline support building (item 5) was completed. Three small, single aircraft hangars were observed under construction during the reporting period. Two of the hangars at the northwest end of the airfield (items 7 and 8) had been completed, and only the foundation of the third hangar at the southeast end of the airfield (item 6) had been completed as of
- 6. (TSR) Flightline Operations/Maintenance Area. Minor construction has taken place within the flightline operations/maintenance area (Figure 3) during the past several years. A quonset-type support building (item 3) was completed during the reporting period. A probable operations/administration building (item 2) was in the midstage of construction by A probable shop building (item 1) was in the late stage of construction on the northwest side of a previously reported five-bay hangar (item 4).² The concrete apron in front of the hangar had been completed and was being used regularly for temporary parking of transport aircraft. A new operations/flightline support building (item 10) was in the late stage of construction by
- 7. (TSR) **POL Storage Area A.** Minor changes were seen in POL storage area A (Figure 4). Four aboveground, horizontal POL storage tanks were removed during the reporting period; 86 tanks remained. On 14 dark-toned, probably new, horizontal storage tanks were scattered along the nearby area rail siding. These tanks will probably be used at the facility.
- 8. (TSR) **POL Storage Area B.** Several minor changes were observed within the central and western sections of POL storage area B (Figure 5). In the central section, four aboveground, horizontal POL tanks had been added to one row, and two tanks had been removed. Nine tanks had been removed from the western section. No significant changes were observed in the eastern section of the storage area.
- 9. (TSR) Motor Pool/Support Area A. Two minor changes were seen within motor pool/support area A of the central section (Figure 6). The masonry exhaust stack (item 2) which serves the new boilerhouse/heating plant was completed. A small earth-covered structure (item 3) had been constructed and was probably used for water storage. This structure was previously reported as a support building under construction.²
- 10. (TSR) Motor Pool Area D. Only one small change was observed within motor pool area D during the past year. A small support building (item 1, Figure 6), reported as a foundation on had exterior walls but no roof on

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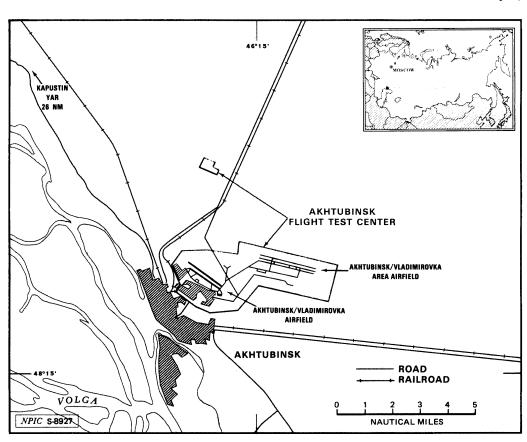
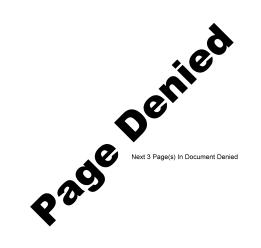


FIGURE 1. LOCATION OF AKHTUBINSK FLIGHT TEST CENTER, USSR

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 (TSR) Administration and Housing Area. During the reporting period, construction was begun on a new support/administration section (item 14b, Figure 6) adjoining one of the probable officer's bar- racks. 	
Akhtubinsk/Vladimirovka Area Airfield	
12. (TSR) The area airfield (Figure 7) was upgraded with the construction of two buildings and additional aircraft parking facilities and by the operational deployment of several mobile, electronic landing aids during the reporting period. Three additional, concrete parking hardstands (tiems 1 and 2) were completed, increasing to 11 the number capable of handling large bomber-size aircraft. A me support building (tiem 4) and a quonset-type support building (tiem 3) were also completed during the reporting period.	
13. (TSR) Several new items of electronic equipment were operationally deployed to the area airfield during the past year, significantly upgrading both the ground-control approach (GCA) site and instrument landing system (ILS). At the GCA site (item 5), two ONE FYE radars had been added to supplement the single LONG TALK radar previously identified. At the west inner-marker beacon site (item 6), an SP-50M course beacon had been installed. Each of the airfield inner-marker beacon sites was equipped with both the SP-50M course beacon and the THIN PATH localizers. At the east glide slope is title (item 7), an SP-50M course beacon and the THIN PATH localizers. At the cast glide slope it (item 7), an SP-50M course beacon and the THIN PATH localizers.	

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Akhtubinsk/Vladimirovka ASM Support Complex

14. (TSR) Significant activity was observed within the ASM fueling area of the ASM support complex (Figure 8). Unidentified construction activity was seen immediately south of a shop/storage building (item 29). On the wall/fence securing the shop/storage building on the south side was moved approximately 30 meters closer to the building. Between a stand of trees and a concrete, looped road had been removed, and work had begun on a large excavation. No further progress was observed in the area for the remainder of the reporting period. A small support building (item 37) was enlarged during this reporting period. In the ASM fueling area, four aboveground, horizontal POL storage tanks were removed.

Akhtubinsk/Vladimirovka AAM and ASM Storage Facility

15. (TSR) The general level of activity within the ASM storage facility (Figure 9) continued to be low with no new construction or significant activity observed during the reporting period.

Akhtubinsk/Vladimirovka ASM/AAM Support Complex

16. (TSR) Several changes were observed in the ASM/AAM support complex (Figure 10). Construction completed during this reporting period consisted of a shop/maintenance building (tiem 7), two administration/engineering buildings (tiems 9 and 11), two support buildings (tiems 5 and 60), and two quonset-type storage/support buildings (tiems 53 and 54). In addition, a single aircraft hangar (tiem 61) in

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the northwest corner of the facility was also completed. Several new construction projects, initiated during this reporting period, were still underway as of the northwest corner of the facility was also completed. Several new construction projects, initiated during this reporting period, were still underway as of the northwest corner of the northwest corner of the facility was also completed. Several new construction projects, initiated during this reporting period, were still underway as of the northwest corner of the facility was also completed. Several new construction consisted of an extension to the north end of a storage building (time 28), an extension to the south side of a wholf-was and side of a wholf-was and side of a wholf-was and side of a shop/maintenance building (time 2), two barracks/administration buildings (times 58 and 59) in the early stages of construction, and a shop/support building (time 37) in the late stage of construction.

Akhtubiask AW Radar Facility TALL KING

17. (TSR) The most significant changes observed at the TALL KING site (Figure 11) were the removal of three of the four ODD PAIR radars and the installation of an operational R-410 TWIN PLATE sets in the trader was been removed from their positions by The radars had apparently been transferred to the 25X1 new AW radar site (Figure 12). In mid-October 1978, two R-410 TWIN PLATE sets in the travel mode were observed at the TALL KING site. By late November and throughout the remainder of this reporting period, one R-410 TWIN PLATE set was observed in an operational mode with the antenna screen oriented approximately northeast.

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		25X1
New AW Radar Site		25X1
18. (TSR) Sign	nificant upgrading had occurred at the new AW radar site (Figure 12) just east of	
operations/control a mound occupied by	trea A. On the facility consisted of six radar mounds with one an additional three mounds had been	25X1 25X1
constructed, and the	electronic order-of-battle included one SPOON REST A, one SPOON REST C, one	
three of which were	hree ODD PAIR radars. On four ODD PAIRs were observed at the new site; probably moved from Akhtubinsk AW Radar Site TALL KING. On one of	25X1 25X1
the four was being of period. A SPOON RI	disassembled, with the three remaining operational for the remainder of the reporting EST D had been added to the site by	25X1
Significant Aircraf	ft and Weapons Activity	
Modified BACKFIRE	В	
19. (TSR) A m	nodified BACKFIRE B aircraft (Figure 13) was identified at the area airfield for the This aircraft has since been observed at the ASM support complex, as well	25X1
as the area airfield.	Previously, modified BACKFIRE B aircraft have only been seen at Kazan Airframe	
Plant Gorbunov 22 (and at Ramenskoye Flight Test Center (modified BACKFIRE B has reconfigured engine inlets which are squared on top with	25X1
the inlet sideplates c	cut back at a sharp angle, giving them a wedge-shaped appearance. By repositioning	
	the very end of the nose, a more streamlined fuselage was created. identification of a modified BACKFIRE B at Akhtubinsk could indicate that this	
	ared for weapons testing.	
RAM J		
	RAM J testing program continued at the flight test center. During the past year, most	
	occurred during the spring and summer months. The RAM J was observed only four nber 1978 and April 1979. Between May and September 1979, one and sometimes two	
RAM Js (generally	canvas covered) were observed either on the northwest parking apron of Akhtubin-field or within the Sukhoy area of the ASM/AAM support complex.	2571
Till.	and of the rotal Arms support complex.	25X1
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25. (TSR) On imagery of	unidenti- est end of three, all rol surfa-
Unidentified AAMs	
Two service vehicles and a small crew bus were immediately adjacer FOXBAT, and the aircraft appeared to be undergoing preflight preparations.	nt to the 25X1
the visible portion of the missile appeared similar in size and configuration to the forward por missile identified as the AS-X-11 in an air weapons display at Moscow/Shchelkovo Airfield	tion of a 25X1
the aircraft fuselage centerline and protruded beyond the leading edge of the wing. the aft portion of the missile, including all aerodynamic surfaces, was obscurred by the FOXB	Although 25X1 AT wing,
flight test center on (Figure 16). The missile was mounted on the port wing of a B/D on the northwest alert apron of the main airfield. The missile was pylon mounted,	
24. (TSR) A probable AS-X-11 tactical air-to-surface missile was identified for the first tin	ne at the
Probable AS-X-11 ASM	
reserved parking apron at the northwest end of the main airfield. Occasionally, one was observed the ASM/AAM support complex.	
23. (TSR) Modified FOXBAT aircraft (Figure 15) continued to be observed regularly at test center. Generally, from three to five of these aircraft were seen on any given day. However, of a high count of six was observed. The modified FOXBATs were often observed.	on 25 X 1
Modified FOXBAT	Alex Circles
Base span	
Vertical Stabilizer Maximum height above ground	
Tip height above ground Root height above ground	
Tip chord	
Span Root chord	
Maximum height above ground Horizontal Stabilizer	
Width at air intakes Length of engine housing Maximum height above ground	
Length overall Width forward of air intakes	
Fuselage	
Length Width	
Wing Tip Pods	
Wing leading edge sweep angle	
nom ancian contentio	
Distance to wing mounting stations from aircraft centerline	
Distance to wing fences from aircraft centerline	
Wing tip height above ground Wing root height above ground	
Root chord Tip chord	
Wings Span (not including tip pods)	25X1
ry fuel tanks were mounted on the second-from-inboard wing mounting stations. Mensuratio RAM J revealed the following data:	n of this
of the RAM J yet obtained (Figure 14). Each wing appeared to have five pylons or mounting station the outboard port wing mounting station, an unidentified pod/weapon was observed. Probabl	le auxilia-
of the ASM/AAM support complex on revealed perhaps the best noncanvas-cov	

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26. (TSR) Mensuration revealed the following dimensions for the unidentified missiles:

	Longer missiles	Smaller missiles	
Length overall Fuselage diameter Computed wing span Actual observed span between tips of perpendicular wings Approximate wing root chords Distance from nose to aft control surfaces root leading edges Distance from trailing edge of the missile to the trailing edge of aft control surfaces			25X1
No mensuration was attempted on the forward control sur 27. (TSR) The shorter missile appeared to be sir AAM reported in November 1977 in the same secured previously unseen type. Two of the long and one of the large as early as and remained visible under the large and remained visible under the large area.	milar in size and d area. ⁴ The larg he short missiles	configuration to a new probable er missile appeared to be a new,	25X1
New Unidentified Probable Air-Launched Missile 28. (TSR) A new, unidentified probable air-launce occasions at the test center during the past year (Figure as the one observed at the area airfield on meter in diameter, was distinctive in appearance with wings were possibly folded into the missile fuselage. A on the ALM, there are two horizontal stabilizers which	The probab no visible wings lthough no vertice	ole ALM appeared to be the same le ALM, or forward control surfaces. The cal control surfaces were observed	25X1
			25X1
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the probable ALM was on a handling dolly between a BLINDER B and a BACKFIRE B aircraft. The probable ALM was not seen again until when it was observed within a double-fence-secured open storage area at the northwest end of the main airfield flightline operations/maintenance area. With the exception of the probable ALM was observed in this area for the remainder of the reporting period. On the probable ALM was not observed at the flight test center. On	25X1 25X1 25X1 25X1 25X1 25X1
New Unidentified Missilelike Object	
	25X1 25X1 25X1
	25X1

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	2
30. (TSR) On an unidentified rac	ar (Figure 20) was observed for the first time 2 2/Vladimirovka ASM Support Complex. The
30. (TSR) On an unidentified race ithin the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one of	t/Vladimirovka ASM Support Complex. The add of a lowbed trailer with an adjacent support
30. (TSR) On an unidentified radiation the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the	t/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support on one projecting from each of the four corners oughout the first half of the year but had been
30. (TSR) On an unidentified radiation the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the	t/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support on one projecting from each of the four corners oughout the first half of the year but had been
30. (TSR) On an unidentified race ithin the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support on one projecting from each of the four corners oughout the first half of the year but had been treen
30. (TSR) On an unidentified race of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data when the moves are also as a support of the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data when the moves are also as a support of the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data when the moves of the trailer and the moves of the move	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support on one projecting from each of the four corners oughout the first half of the year but had been
30. (TSR) On an unidentified race of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data with the Mensuration revealed the following data with the move of the m	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support so, one projecting from each of the four corners oughout the first half of the year but had been reen
30. (TSR) On an unidentified race within the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data Antenna Screen with the control of th	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support so, one projecting from each of the four corners oughout the first half of the year but had been reen
30. (TSR) On an unidentified race of Akhtubins adar set consisted of a parabolic screen mounted on one can. The antenna trailer was stabilized by four support leg f the trailer. The radar was present on most coverages the moved by Mensuration revealed the following data: Antenna Screen top above ground Lowbed antenna trailer Length	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support so, one projecting from each of the four corners oughout the first half of the year but had been reen
30. (TSR) On an unidentified race within the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one of an. The antenna trailer was stabilized by four support leg of the trailer. The radar was present on most coverages the emoved by Mensuration revealed the following data: Antenna Security Width Height Height of screen top above ground Lowbed antenna trailer Length Width	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support so one projecting from each of the four corners oughout the first half of the year but had been reen
within the administration/engineering area of Akhtubins adar set consisted of a parabolic screen mounted on one evan. The antenna trailer was stabilized by four support leg of the trailer. The radar was present on most coverages the emoved by Mensuration revealed the following data Antenna Set Width Height Height of screen top above ground Lowbed antenna trailer Length	x/Vladimirovka ASM Support Complex. The ad of a lowbed trailer with an adjacent support so one projecting from each of the four corners oughout the first half of the year but had been reen

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IMAGERY
(TSR) All available KEYHOLE imagery acquired between the information cutoff date, was used in the preparation of this report.
MAPS OR CHARTS
DMA. US Air Target Chart, Series 200, Sheet 0235-22, scale 1:200,000 (UNCLASSIFIED)
DOCUMENTS
1. NPIC. RCA-16/0001/77, Akhtubinsk Flight Test Center (S), Feb 78 (TOP SECRET 25X
2. NPIC. RCA-16/0001/78, Akhtubinsk Flight Test Center (S), Mar 79 (TOP SECRET 25X
3. USAF/FTD. Air Force Foreign Technology Bulletin, 10 Jul 79 (TOP SECRET 25X
4. NPIC. IIR-097/77, New Probable Air-to-Air Missile at Akhtubinsk/Vladimirovka AAM Support 25X Complex, USSR (TSR), 17 Nov 77 (TOP SECRET
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REQUIREMENT
COMIREX Q01 Project 290001DQ
(S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC,

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