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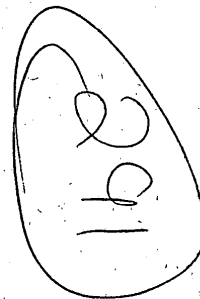
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basic imagery interpretation report

Kuybyshev Aircraft Engine Plant Frunze 24 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

USSR



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WNINTEL

Z-14622/82
RCA-09/0027/82
NOVEMBER 1982
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INSTALLATION OR ACTIVITY NAME					COUNTRY
Kuybyshev Aircraft Engine Plant Frunze 24					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	53-12-04N 050-16-40E				
MAP REFERENCE					
DMAAC. USATC, Series 200, Sheet 0165-17, scale 1:200,000					
LATEST IMAGERY USED			NEGATION DATE (if required)		
			NA		

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ABSTRACT

1. (S/WN) This report updates NPIC report [] on Kuybyshev Aircraft Engine Plant Frunze 24 and discusses production and construction at the plant from [] the information cutoff date of the previous NPIC report) through []
2. (S/WN) The report includes a location map, two annotated photographs, and a table of mensural data pertaining to the construction activity.

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BASIC DESCRIPTION**Construction**

3. (S/WN) Kuybyshev Aircraft Engine Plant Frunze 24 (Figure 1) is 3 nautical miles (nm) east of the center of Kuybyshev and 1.5 nm southwest of Kuybyshev Airframe Plant Lenin 18 []. A summary of construction at the plant since [] is shown on Figure 2 and mensural data are provided in Table 1.

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4. (S/WN) Construction completed since [] resulted in the addition of 49,391 square meters of floorspace to the plant. Six support buildings containing 2,910 square meters of floorspace have been razed since []. The result was a net addition of 46,481 square meters of floorspace to the plant. Three structures (items 8a, 21a, and 21b, Figure 2) were under construction on []. When complete, they will add 11,475 square meters of floorspace to the plant. When all current construction is complete, floorspace at the plant will total 473,018 square meters.

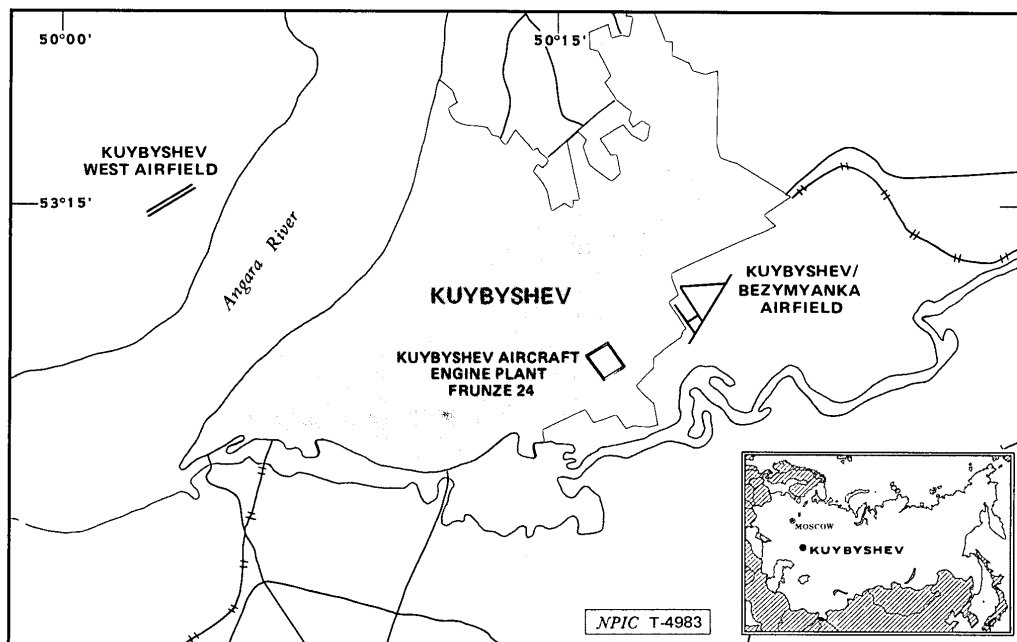
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5. (S/WN) Two of the L-type engine test cells were modified in August 1978 and September 1981, respectively, by the addition of a secondary air inlet (items 12a and 12c) which will change each of the cells to a modified U-type. This modification suggests that a considerably larger air mass is required for the engine that is to be tested in these cells. Two exhausters (item 12b) were added to another test cell in October 1980.

(Continued p. 4)

**FIGURE 1. LOCATION OF KUYBYSHEV AIRCRAFT ENGINE PLANT FRUNZE 24, USSR**

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Table 1.
Additions to Kuybyshev Aircraft Engine Plant Frunze 24
From [REDACTED]
(Items keyed to Figure 2)

This table in its entirety is classified SECRET/WWINTEL

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Item No	Description	Dimensions* (m)			Total Floorspace (sq m)	Date Complete	Remarks
		L	W	H			
1	Admin/engr bldg				4,825	May 80	9 stories
2	Subassem bldg						
a	Admin/engr sect				4,608	Sep 75	3 stories
b	Shop sect				722	Sep 75	
c	Subassem sect				6,026	Sep 75	
3	Admin bldg				143	Jul 76	
4	Subassem bldg						
a	Shop sect				799	Aug 77	
b	Admin/engr sect				3,185	Feb 81	3 stories
5	Shop bldg						
a	Support sect				96	Nov 78	
6	Spt bldg				315	Apr 75	
7	Test bldg						
a	Spt sect				219	Mar 79	
b	Test cell add				—	—	Secondary air inlet; added in Mar 74
8	Subassem bldg						
a	Shop sect				684	—	Ucon—static activity since Aug 78
9	Spt bldg				161	Jun 74	
10	Shop bldg				2,280	Feb 80	
11	POL stor						
a	Buried tank				—	Sep 75	
b	Buried tank				—	Sep 75	
12	Test bldg						
a	Test cell add				—	—	Secondary air inlet; added in Aug 78
b	Test cell add				—	—	Exhausters; added in Oct 80
c	Test cell add				—	—	Secondary air inlet; added in Sep 81
13	Test cell bldg				798	Sep 75	
14	Subassem bldg						
a	Shop sect				1,121	May 74	
b	Subassem sect				3,773	Apr 76	
15	Shop bldg						
a	Admin/engr sect				504	Sep 76	2 stories
16	Admin/engr bldg				7,509	Feb 78	3-story sect
17	Subassem bldg						
a	Shop sect				380	Feb 80	
18	Shop bldg				165	Nov 79	
19	Spt bldg				107	Sep 75	
20	Spt bldg				144	Sep 81	
21	Subassem bldg						Ucon—begun Jul 79
a	Subassem sect				9,108		
b	Admin/engr sect				1,683		Ucon—begun Mar 81
22	Shop bldg					Mar 81	3 stories
a	Shop sect				2,672	Mar 81	
b	Admin/engr sect				634	Mar 81	4 stories
23	Stor bldg						
a	Stor sect				453	Nov 78	Stor bldg with 421 sq m floorspace was razed
b	Stor sect				453	Feb 80	
24	Forge/foundry				589	Mar 74	
25	Warehouse				906	Mar 74	
26	Spt bldg				939	Nov 79	
27	Spt bldg				239	Feb 78	
28	Spt bldg				239	Jul 79	
29	Shop bldg						
a	Shop sect				1,284	Mar 74	
30	Shop bldg				929	Feb 81	Part of bldg present since Mar 74
31	Warehouse				674	Sep 76	
32	Shop bldg				276	Apr 76	
33	Shop bldg				1,224	Sep 74	Total includes 3-story admin/engr sect

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* Horizontal measurements are accurate to within [REDACTED] of measured distance), and vertical measurements are accurate to within [REDACTED] of measured distance) both within a 95% confidence interval.

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6. (S/WN) Another test cell was altered by the addition of a secondary air inlet (item 7b) to a modified through-type cell in March 1974.

Production

7. (S/WN) Numerous aircraft engine containers were observed in the main test and transshipment area on the southwest side of the plant throughout the reporting period. Most were [] containers (Figure 3) for the NK-12 turboprop engine which powers the BEAR, COCK, CLEAT, and MOSS aircraft. In addition, [] containers (Figure 3) for the NK-144 engine were frequently seen. The NK-144 powers the BACKFIRE and older versions of the CHARGER aircraft.² Containers measuring [] in length have also been observed. The function of these smaller containers is unknown, but they probably hold components for the NK-12 or NK-144.

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REFERENCES**IMAGERY**

(S/WN) All applicable satellite imagery acquired from [] was used in the preparation of this report.

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MAP OR CHART

DMAAC. US Air Target Chart, Series 200, Sheet 0165-17, scale 1:200,000 (UNCLASSIFIED)

DOCUMENTS

1. NPIC. [] BCA-90/0008/73, *Kuybyshev Aircraft Engine Plant Frunze 24*, Nov 72 (TOP SECRET)
2. *Janes's All The World's Aircraft, 1981-82*, pp 745-746 (UNCLASSIFIED)

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*Extracted material is classified SECRET, []

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REQUIREMENT

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Project 542055J

(S) Comments and queries regarding this report are welcome. They may be directed to [] Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, on []

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