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SECTEL

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(See inside cover)

Returne to

imagery analysis report

AWACS-Associated CANDID Aircraft, USSR (S)



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AWACS-ASSOCIATED CANDID AIRCRAFT, USSR (S)

INTRODUCTION

	aircraft that are modified specifically for use as airborne warning and
control systems (AWAC	S) aircraft have been observed in the USSR at Tashkent Airframe Plant B
Chkalov 84	where they are produced; at Taganrog Airframe Plant Dimitrov 86 (BE
	are modified; and at Akhtubinsk Flight Test Center (FTC;
where they are flight to	ested. The AWACS-related modifications include a strut-supported roto-
dome, a probable satell	ite communications antenna housing, several fuselage blisters, and a large
nose probe.	

2. (S/D) This report contains a location map (Figure 1), 11 annotated photographs, and a summary chart (Chart 1).

DESCRIPTION

CANDID AWACS 1

3. (S/D) The first CANDID to be converted to the AWACS configuration was CANDID B	25 X 1
(Figure 2). This aircraft was first observed at Tashkent Airfield	25 X 1
The dorsal-mounted rotodome strut bases were on the aircraft on that date. Tashkent	25 X 1
Airfield serves as the flyaway field for Tashkent Airframe Plant B Chkalov 84, where the CANDID	051/4
is currently being produced. CANDID B was subsequently identified on a	25 X 1
parking apron at Taganrog Airfield This aircraft probably spent	25 X 1
the next 15 months undergoing conversion to an AWACS platform inside the large engineering	
hangar in the southern area of Taganrog Airframe Plant Dimitrov 86. On numerous coverages	
between D-30 engine shipping containers and AWACS roto-	25X1
dome and antenna shipping containers were observed outside the engineering hangar. The fully	
converted CANDID AWACS 1 (Figure 3) was observed on the main parking apron at Taganrog for	
the first time on This aircraft was usually present on the main parking apron	25X1
from However, on this	25X1
CANDID AWACS, with its outer wing panels removed, was observed on the apron in front of the	
large engineering hangar, presumably for additional fitting-out (Figure 4). The outer wing panels	
from the aircraft were on the main parking apron on those two dates. This CANDID AWACS was	
later observed in flight over Akhtubinsk FTC on On CANDID	25X1
AWACS 1 was observed parked at the area airfield of Akhtubinsk FTC where it has remained. It	
was probably transferred to Akhtubinsk from Taganrog for advanced flight/systems testing.	
Thus productly transferred to thinteen the second of the s	

CANDID AWACS 2

4. (S/D) The second CANDID converted to (Figure 5). This aircraft was first identi	o an AWACS platform was CANDID B fied with rotodome strut bases at Tashkent on
CANDID B	was subsequently observed at Taganrog on
The engines of this aircraft were	removed during August 1978 and the outer wing
	e 3). This CANDID had probably been moved into
the engineering hangar by an	d remained there undergoing modification until

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25X1

25X1

25X1

25X1

25X1

25X1

25X1

late 1980 or early 1981. This aircraft was probably the completed CANDID AWACS observed at Taganrog from through (Figure 6). On AWACS 2 was first observed at Akhtubinsk FTC (Figure 7), indicating that it had also been transferred there for advanced flight/systems testing. **CANDID AWACS 3** 5. (S/D) A CANDID A, with rotodome strut bases was identified at Tashkent Airframe Plant on (Figure 8). This aircraft was subsequently observed at On imagery of a set of CANDID outer wing Tashkent Airfield on panels was observed on the main parking apron of Taganrog (Figure 9). The starboard wing panel The wing panels have remained on the parking apron, canvas covered, on all subsequent coverages. It can be assumed that CANDID A currently undergoing conversion into an AWACS aircraft at Taganrog. **Possibly Related Activity** 6. (S/D) A modified CANDID B, was identified at Taganrog on The modifications to the aircraft consist of a large dorsal fairing aft of the wing box and forward of the vertical stabilizer; two small protrusions flanking the large dorsal fairing; two large pods/blisters (one mounted low on each side of the fuselage aft of the flight deck); and a blunt, MOSCOW S. S. Sverdlovsk

FIGURE 1. LOCATION MAP OF TAGANROG, AKHTUBINSK, AND TASHKENT, USSR

CHINA

Gladkava

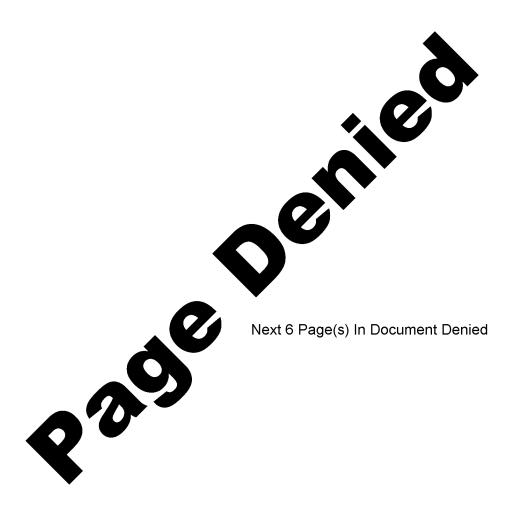
MONGOLIA

NPIC BASE 66

CHINA

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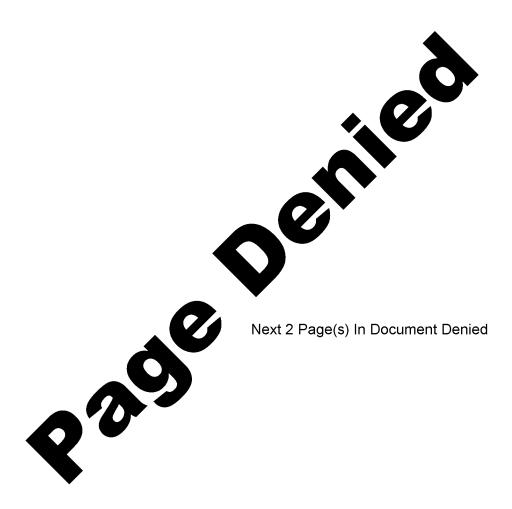
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bulbous nose extension (Figure 10). The large fuselage-mounted pods/blisters may be extensions of the landing gear housing; however, this has not been confirmed. This aircraft was first observed at Taganrog as an unmodified CANDID B with	25X1 25X1 25X1 25X1
7. (S/D) A modified CANDID A (Figure 11), similar in appearance to the modified CANDID B was identified at Tashkent on This aircraft was on the airfield checkout/maintenance apron where it has since been observed repeatedly. The modified CANDID A has a large dorsal fairing flanked by two small protrusions and an extended bulbous nose. However, unlike the modified CANDID B this aircraft did not have the large low-mounted pods/blisters. Only the first four digits of this modified CANDID's have been confirmed.	25X1 25X1 25X1 25X1 25X1
8. (S/D) The role of these two modified CANDID is not clear; however, their modifications appear to be electronics related. They have been included in this report because there may be a relationship between these aircraft and the CANDID AWACS program. IMAGERY ANALYST'S COMMENTS 9. (S/D) As part of the conversion process, both CANDID AWACS completed thus far have been repainted with Soviet military markings.	25 X 1
However, differences in the paint patterns on the two aircraft have been identified. On the first CANDID AWACS (formerly CANDID B large rectangular patches that are lighter in tone than the rest of the wing are located in the areas formerly occupied by the AEROFLOT wing markings. On the second CANDID AWACS (formerly CANDID B rectangular patches that are darker in tone than the rest of the wing have been observed where the AEROFLOT wing markings had been (Figure 7). On both aircraft, a five-pointed star has been painted on each of the rectangular patches.	25X1 25X1 25X1 25X1
10. (S/D) Another feature of the conversion process observed on the first two CANDID AWACS was the replacement of the original B-type tail with an A-type tail. Before they were converted to AWACS, the CANDID B aircraft had tail cones which incorporated a quadruple 23mm tail gun, a tail gunner's position, and a BOX TAIL fire control radar. These tail cones were replaced during AWACS modification with ones that had none of the tail-gun-associated features. The tail cones on the AWACS are similar to the tail cone observed on CANDID A aircraft. A CANDID B tail cone, probably from one of the first CANDID AWACS, has been on the main	

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REFERENCES	
IMAGERY	e
(S/D) All available satellite imagery acquired between the information cutoff date, was used in the preparation of this report.	· •
MAPS OR CHARTS	
SAC. US Air Target Chart, Series 200, Sheets 0249-3 and -8, scale 1:200,000 (UNCLASSIFIED)	
(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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Chart 1. Summary of Observed CANDID AWACS Aircraft and Possibly Related CANDID Modification Activity, March 1977 - August 1981 This chart in its entirety is classified SECRET/WNINTEL

	1977 MAMJJASON [1978 D J F M A M J J A S O N D J	1979 F M A M J J A S O N D .	1980 I F M A M J J A S O	1981 N D J F M A M J J A
CANDID B (AWACS 1)	, costeou	*		<u>A</u>	
CANDID B (AWACS 2)		ा क्षात्र व्यक्ति व्यक्ति । १८५० - १८५ १५११ च्याच्या प्राप्ति ।			•
CANDID A (AWACS 3)				OUTER	WING PANELS ONLY
CANDID E (CANDID B modified)				OUTER WING PANELS ONLY	
CANDID A (CANDID A modified)					
**** 1	Tashkent Taganrog Akhtubinsk			rith complete AWACS modificati magery identification of an AWA khtubinsk.	

