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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON, D.C.



REPLY TO
ATTN OF: AFNIEBA

30 Nov 1966

SUBJECT: SIC/AWG Special Contribution to SIC

to: Chairman,
Scientific Intelligence Committee

1. The SIC/AWG met on 29 November 1966 to provide contributions to the NIPP on the Soviet Airborne Warning and Control (AWAC) Aircraft and the AN-22/COCK. These contributions are attached.

a. The following members and observers attended:

Members:

Lt Col	Curtis F. Young	OACSI/DA
Mr.	Hal B. Penne	Navy/STIC
Mr.	[Redacted]	NSA
Mr.	[Redacted]	CIA/OSI
Major	Paul P. Stassi	USAF

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Observers:

Mr.	[Redacted]	CIA/SIC
Mr.	[Redacted]	CIA/ORR
Mr.	[Redacted]	CIA/OSI
Major	Edwin J. Hatzenbuehler	USAF

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2. All members participated. Reservations were taken as noted.

Paul P. Stassi MAJ USAF

for JOHN W. FARR, Colonel, USAF
Chairman, Aircraft Working Group
Scientific Intelligence Committee

2 Atch
1. Sov Acft Warning &
Control (AWAC) Acft
2. AN-22/COCK

USAF review(s) completed.

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SOVIET AIRCRAFT WARNING AND CONTROL
(AWAC) AIRCRAFT

There is evidence that the Soviets are developing an Airborne Warning and Control (AWAC) aircraft. The logical aircraft for this mission is the TU-114/CLEAT. If adopted for this role it would improve the Soviet early warning capability particularly against low level penetrations and provide the airborne control required for long range intercepts. The following is a technical estimate for the performance of this system in an AWAC role:

IOC	1967-70
Gross Weight	343,000 pounds
Radius	1,000 NM ^{1/}
Loiter Time	10 Hours ^{1/}
Station Altitude	34,300 feet
Detection Range	<u>2/</u> <u>3/</u>

1/ Max radius/loiter time is a straight line variation: 100 NM/15.0 hours; 500 NM/12.8 hours; 2400 NM/1.3 hours.

2/ Max clear air range capability for 85 percent probability for 1, 10, and 50 square meter targets is:

L-Band	67, 120, 178 NM
X-Band	41, 73, 109 NM

3/ Radar performance is to be reviewed by the electronics sub-committee of SIC.

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AN-22/COCK^{1/} ^{2/}

Max Take-Off Weight	550,000 pounds ^{3/}
Cargo	99,000 pounds ^{4/}
Range	5,100 NM
Average Cruise Speed	360 Knots
Average Cruise Altitude	25,500 Feet
Troop Capacity	175 ^{5/}

- 1/ These figures represent a maximum capability for this aircraft projected from evidence available on current prototypes.
- 2/ The CIA member believes these performance characteristics are too high for the model that will actually be produced, and without subsequent redesign, these performances may never be achieved. He believes that the maximum gross weight will be about 450,000 pounds.
- 3/ For take-off on hard surface runways. For prepared sod runways maximum gross weight will be approximately 450,000 pounds.
- 4/ With max fuel. Max cargo is 176,000 pounds for 2,900 NM range.
- 5/ Could carry 400 if extra deck is added.

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