APPROVED FOR RELEASE DATE: 16-Jul-2011

APPROVED FOR RELEASE DATE: MAR 2002 TOP SECRET

7 January 1955

TS-103219

HR70-14

PROJECT OUTLINE

PROPOSAL

In collaboration with the Air Force, to undertake the procurement of (a) 20 high altitude aircraft, (b) photoreconnaissance equipment, and (c) electronic-reconnaissance equipment, and to prepare for and conduct extensive overflights of the Soviet Bloc in order to provide photographic and, secondarily, electronic intelligence. (Project AQUATONE)

SITUATION

The Lockheed Aircraft Corporation has proposed a veryhigh-altitude, jet-powered aircraft (designated CL-282). The Corporation is willing to take full responsibility for the design, mock-up, building, secret testing, and field maintenance of this unorthodox vehicle. It therefore appears entirely feasible for a CIA task force to undertake a covert overflight program based upon the CL-282, which will fly at 70,000 feet, well out of reach of present Russian interception and high enough to have a good chance of avoiding detection.

Photographic equipment can be developed which will enable extraordinary intelligence content to be obtained with pictures taken from great altitudes. A single mission in clear weather can photograph a strip of Russia 200 miles wide and 2200 miles long. A spotting camera will take pictures in which the individuals in a city street can be counted from 70,000 feet. Cloud cover will reduce completeness but is not a serious obstacle because missions can be scheduled for good weather and alternate routes for clear weather can be selected in flight.

Analogously, it is believed that automatic electronic intercept equipment (ELINT gear) can be developed which will provide from each overflight essential intelligence data as to locations, characteristics, capabilities, ranges and purposes of Soviet radar, homing identification and missile guidance systems. The possibility that otherwise inaccessible internal U.S.S.R. ultra-high-frequency links might be intercepted and recorded for communications intelligence analysis will also be explored.

The opportunity for safe overflight with the best equipment that can be built at this time will last only a year or

TOP

SECRET

TOP SECRET

so because the Soviets will develop radar and interceptors or guided missiles effective for the 70,000-foot region. The CL-282 can be developed and produced extraordinarily rapidly because it is based on a fighter aircraft already in production and uses an engine already tested. Moreover, experience with this aircraft will contribute significantly to the ability of the United States to maintain a lead in the development of still higher altitude aircraft and thus to maintain a safe overflight capability. Therefore, time is of the essence if the existing opportunity is to be exploited and to be extended by continuing development.

OBJECTIVES

Although undertaken primarily to collect photographic and electronic intelligence, this operation will serve a variety of purposes of interest to various parts of the United States Government. The CL-282 will have major utility as a high altitude test platform. The research to be undertaken will include the testing of engine performance, pressurization, and the functioning of auxiliary equipment of all kinds as well as of electronic and photographic equipment at It will also include a study of the capabilihigh altitudes. ties of personnel to perform missions requiring sustained flight at high altitudes and of the utility of equipment furnished to permit personnel to function more effectively. The aircraft will probably be useful also for high altitude air sampling. In the field of intelligence, the operation should contribute significantly to the attainment of the following objectives:

a. Improve estimates of Soviet ability to deliver nuclear weapons and their capacity to produce them.

b. Appraise Soviet guided missile development through photographs of testing ranges, etc.

c. Assess the Soviet order of battle as an early warning indicator.

d. Provide adequate locations and analyses of Russian targets.

TOP

e. Disclose new developments which might otherwise lead to technological surprise.

ECRET

TS-103219

C00143403		ويشمو يكتمني والتوا		
CONT49409'"				
		-		
	ТО	P SECRE	Г	
	f. Appraise Sc	viet industrial	. and economic p	cogress.
COST				
the pro	e cost of procure gram here propose , virtually a 955. It can be b	ed is expected t all of which wil	o total approxim I have to be ob-	nately '
E0 12958 3.4(b)(1)>25Yrs	t	cogether with ma testing equipment testing of the f be delivered	it for the	
	e	s of photographi each set consist configurations	ing of	
E0 12958 3.4(b)(1)>25Yrs	t n 3 e	etronic search e be used on photo hissions, togeth sets of automa equipment d maintenance e	graphic er with tic FERRET	
		TOTAL		
materiel mates ass to the pr sistance as govern	in of error in th and it is beli costs could amou sume that the Air roject and withou and supervision, nment furnished end (c) transporta	nese figures pro leved highly unl unt to more than Force will fur it cost to the A (b) all equipment, inclu	ikely that the f Trongency (a) techni ment regularly fu ding especially	total The esti- ibution ical as- urnished 40 en-
be incurr the opera costs, in intellige mission p ing, and	addition to the a red in the course ation. These wil acluding especial ence and electror planning, (b) the (c) some part or equipment in the	e of preparation ll be primarily ly the cost of nic-intelligence cost of pilot all of the cos	a for the mountin (a) administration developing photo requirements, a recruitment and st of testing in	ng of ive o- and of train- itial
E0 12958 3.4(b)[1]>	25Yrs T O	3 P SECRET		03219
	/			
			and the second se	

E0 12958 3.4(b)(1)>25Yrs

ECRET 0 P

administrative costs can be largely absorbed in existing budgets. Pilot recruitment and training costs might reach of which the major part would represent E0 12958 3.4(b)(1)>25Yr a total of the cost of flight training which is provided by the Air Force and for which the Air Force is normally reimbursed. If the Air Force is prepared to absorb this item, the cost to the Agency of recruitment and training should not exceed

č

of which the major part will fall in FY 1955. The cose or the testing program has not yet been estimated. It will fall entirely in FY 1956.

The above figures contain no allowance for (a) any major costs that may be incurred in the acquisition or preparation of operational bases, (b) the cost of actually mounting the operation, including pay and subsistance of personnel, transportation of personnel and materiel to and between operational bases, and field maintenance, and (c) the cost of processing photographic film and electronic tape.

ORGANIZATION

In view of the clandestine character of the proposed operation, its nature, and the varied results expected to flow from it, it is proposed that this undertaking be organized as a joint CIA/Air Force project in which the CIA will undertake procurement as indicated above, with the assistance of the Air Force in all phases, and will conduct overflights as a clandestine operation. Within the CIA, the Special Assistant to the Director for Planning and Coordina-tion, (SA/PC/DCI) will be in charge of the project, with Mr. Herbert Miller as Executive Officer. He will be supported by other officers temporarily assigned on a part-time or full-time basis as appropriate. Sub-projects will be organized forthwith as components of AQUATONE covering the performance of all the following functions:

1. Airframe procurement (Project

ТОР

Procurement of photo-reconnaissance equipment 2. (Project

E0 12958 3.4(b)(1)>25Yrs

- Development and procurement of electronic 3. equipment (Project
- Assembly and formulation of photo-intelligence 4. requirements (Project
- Assembly and formulation of electronic-intelligence 5. requirements (Project

SCRET

TS-103219

6. Pilot recruitment and training (Project



At a later stage, other component projects will be organized as required.

RECOMMENDATION

It is recommended

a. That the project be approved as outlined above.

b. That the Special Assistant to the Director for Planning and Coordination be designated as the official in charge of the project and as Approving Officer, subject to the guidance of the Deputy Director of Central Intelligence and the Director of Central Intelligence.

c. That the procurement of the airframes, photoreconnaissance equipment and electronic equipment up to the amounts indicated above be authorized, subject to the following provisions:

(1) Procurement and contractual arrangements will be those normally employed by the Agency, with such exemptions and restrictions designed to achieve maximum security as may be approved by the Approving Officer.

(2) All contractual and procurement documents, arrangements and commitments will be specifically approved in advance by the General Counsel.

> (3) All commitments and documents which obligate funds in excess of will be approved by the Director of Central Interrigence.

(4) Appropriate documentation will be obtained from the Air Force and from competent technical advisers in support of procurement contracts and the specifications and descriptions of materiel to which they refer.

d. That the recruitment and training of pilots and any other action necessary in preparation for the mounting of overflights be authorized, together with expenses incidental thereto initially up to the amount of

e. That the Comptroller be authorized to expend funds in the manner and to the extent approved by the Approving Officer within the limitations as to quantity and procedure set forth above.

SECRET

TS-103219

5

TOP

TOPSECRET

f. That the Approving Officer be authorized to arrange for the necessary gathering and formulation of intelligence requirements and mission planning, in cooperation with the Air Force as appropriate.

g. That the Approving Officer be directed to maintain the closest possible security over all phases of AQUATONE.

(Signed)

R. M. BISSELL, JR. Special Assistant to the Director for Planning and Coordination

CONCUR:

/s/ C. P. CABELL Deputy Director of Central Intelligence /s/ ROBERT AMORY Deputy Director (Intelligence)

1220 122

ł

ţ

....

.....

.....

z

/s/ RICHARD HELMS for Deputy Director (Plans) /s/ LAWRENCE K. WHITE Deputy Director (Administration)

/s/ LAWRENCE R. HOUSTON General Counsel

APPROVED: 10 Jan 1955

/s/ A. W. DULLES Director of Central Intelligence

E0 12958 3.4(b)(1)>25Yrs

6

σ

TS-103219