

25X1

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

[Redacted]

25X1A

[Redacted]

Copy 6 of 12

17 JAN 1972

NRO, USAF DECLASSIFICATION/RELEASE INSTRUCTIONS ON FILE

MEMORANDUM FOR: Director, CIA Reconnaissance Programs
SUBJECT: Program Progress Report

Forwarded herewith are three copies of the IDEALIST
Program Progress Report for the period 1 October 1971 -
31 December 1971.

25X1A

[Redacted]

WENDELL L. BEVAN, JR.
Brigadier General, USAF
Director of Special Activities

Attachments -

As stated

[Redacted]

25X1A

25X1A

25X1

[Redacted]

Control System Only

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1. EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

25X1

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

25X1A

[Redacted]

Page 2

25X1A

SAS/O/OSA: [Redacted] (10 January 1972)

Distribution:

- 1 - D/CRP
- 2 - D/CRP
- 3 - D/CRP
- 4 - DDS&T Reg
- 5 - D/SA
- 6 - SAS/O/OSA
- 7 - D/O/OSA
- 8 - IDEA/O/OSA
- 9 - INTEL/O/OSA
- 10 - D/M/OSA
- 11 - AMS/OSA
- 12 - RB/OSA

25X1 25X1A

[Redacted]

Control System Only

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

25X1A

Section I

DEVELOPMENT SUMMARY AND PROGRESS

(1 OCTOBER 1971 - 31 DECEMBER 1971)

I. AIRFRAME

A. Light Weight HF Radio - Production of the new Light Weight HF Radio, 718U-7, is on schedule. The first unit should be delivered to Detachment G by 2 February 1972. Installation, in all IDEALIST aircraft, will be completed during the Fourth Quarter FY-1972.

B. U-2R Flight Test and Operational Training Summary

1. IDEALIST Program accomplishments in U-2R aircraft, since introduction were 7821.5 hours on 2369 sorties, as of 31 December 1971.

2. Flight test and operational data are depicted below:

	<u>1 OCT-31 DEC</u> <u>FLIGHTS</u>	<u>1 OCT-31 DEC</u> <u>TIME</u>
1 - 051	30	106.5
2 - 053	33	97.1
3 - 054	45	166.4
4 - 055	<u>40</u>	<u>136.5</u>
TOTAL	148	506.5

II. PROPULSION

Sealed Crossover Tubes - The 600 hour hot section inspection of the improved engine combustion chamber sealed crossover tube has been completed, with excellent results. This engineering change will be incorporated in all J-75-P-13 engines being overhauled subsequent to March 1972.

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

25X1

TOP SECRET

[Redacted]

25X1A

[Redacted]

Section 1
Page 2

III. PAYLOAD

25X1A

A. Q-Bay Preconditioning - A preconditioning cart was operationally field tested on [Redacted]. The temperature regulator was inoperative due to a broken wire, consequently temperature remained at the high level of optimum setting during operation. All carts have been delivered by Lockheed and actual test data is being collected for a variety of ambient temperature and humidity conditions occurring for test and training flights.

B. "H" Configuration

1. Camera, serial number 002, was transferred to Detachment H on 20 November 1971. This unit has the new gyro package, light weight mount, and RFI modifications incorporated which results in a total weight reduction of 56 pounds. Camera, serial number 003, was returned to Detachment G on 7 December 1971.

2. First delivery of the new apochromatic lens for the "H" sensor is anticipated late February 1972. The new lens along with the new gyro package, light weight mount, and RFI modification will then be incorporated into 003. Flight test of the new lens is anticipated mid-March 1972.

C. "B" Configuration - Delivery and installation of the new apochromatic lens for the "B" camera is anticipated mid-April 1972. Flight test of the new lens will follow.

25X1D

IV. [Redacted]

[Redacted]

25X5

25X1A

TOP SECRET

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

Control System Only

25X1

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

[Redacted]

25X1A

[Redacted]

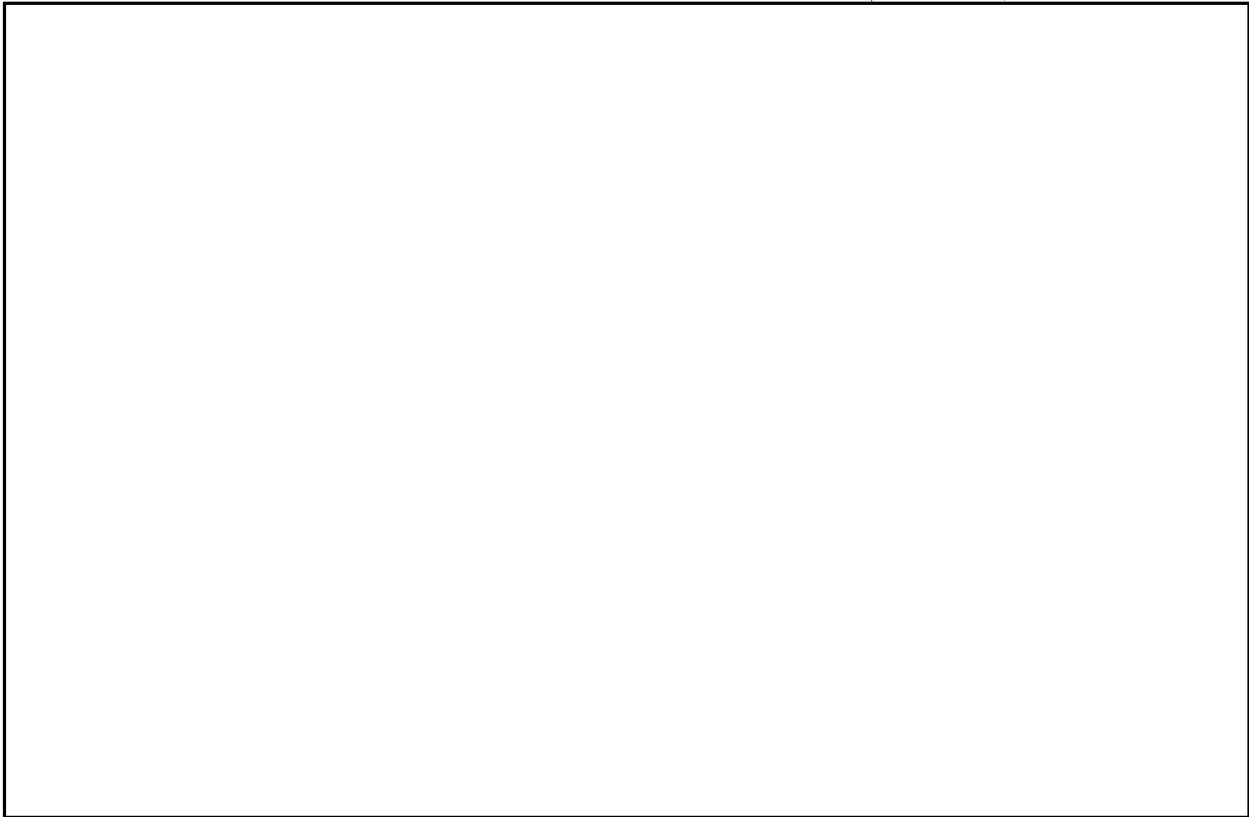
[Redacted]

25X1

Section 1

Page 3

25X5



IV. RESEARCH AND DEVELOPMENT

25X1A

[Redacted]

- The data link transmit antenna was redesigned to minimize the probability of corona. In December, a series of flight tests was conducted to evaluate the effects of this change. The first flight was successful, and good data transmission was received at ranges [Redacted]. The subsequent tests, designed to verify propagation patterns were unsuccessful in that the signals were obscured by a 10 KC hash. This recurrence of a former problem has again raised the question of reliability. The test results are being examined further, and follow-on efforts will be directed toward isolating and eliminating this problem.

25X1D

25X1

25X1A

[Redacted]

Control System Only

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

[Redacted]

TOP SECRET

GROUP 1 EXCLUDED FROM
DOWNGRADING
AND DECLASSIFICATION

25X1

25X1A

Section 1
Page 4

V. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

A. Medical Activities

25X1A

25X1A

25X1A

25X1C

25X1C

25X1C

25X1C

25X1A

25X1A

25X1A

25X1A

25X1C

25X1C

25X1C

25X1C

1. [redacted] accompanied [redacted] deployment to [redacted] 18 - 28 October 1971. No medical nor personal equipment problems were encountered by the acting Detachment G [redacted]

25X1

2. In November 1971, [redacted] [redacted] four excellent years with us.

3. In mid-November [redacted] new Detachment H Squadron Flight Surgeon, arrived at Edwards AFB. In

[Large redacted block]

4. [redacted] accompanied by [redacted] (Psychiatrist, OMS), [redacted] (PHD, Psychological Services, OMS) and [redacted], of Edwards made an annual visit to Detachment H, 5 - 19 December. None of the latter three had previously been to [redacted] and in the case of the civilians, this was [redacted]. Every effort was made to acquire maximum indoctrination for these personnel. They participate in selection [redacted] and it has long been felt that they should become familiar with [redacted]. It was an excellent

25X1

25X1A

25X1

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

[Redacted]

25X1A

[Redacted]

Section 1

Page 5

25X1

25X1C

25X1C

trip and we were privileged to brief [Redacted] [Redacted] Also, we succeeded in obtaining four candidates for the next selection program.

5. A contract employee sustained a fractured spinal vertebrae in an auto accident 22 December 1971. It is not of a serious nature.

B. Life Support Activities

1. One-Man Life Raft Modification - A Service Bulletin has been issued to provide instructions and materials to paint the bottom of the one-man life rafts flat black. This action is being taken in response to the published results of a thorough research project on shark attack. It appears now that brightly colored materials unquestionably attract the killer shark. By changing the color on the bottom of the raft to black, some margin of protection against this threat may be afforded a downed crew member.

2. S1010 Flotation Modification - A new flotation cell has been water tested during this reporting period which appears to provide a more efficient floating profile than the existing preserver. A Work Order has been issued to mount one flight-acceptable preserver in a separate outer cover to the S1010 Pilot Protective Assembly and request pilot comments on its new characteristics and comfort. This effort along with previous life-support-system changes will make the SR-71 and U-2R flight gear more similar.

25X1A

3. Automatically Deployed Survival Kit - The survival kit presently used with the U-2R aircraft has a non-automatic deployment system. [Redacted] manufactures a Fixed Distance [Redacted] sensor which is being used on supply drops to deploy the parachutes a fixed distance above the terrain. A survival kit was delivered to

25X1

25X1

25X1A

[Redacted]

Control System Only

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

25X1

25X1A

25X1

Section 1
Page 6

25X1A

[redacted] to determine if the device can be adapted to deploy the kit. Engineers were of the opinion that the FDR device could be adapted to the survival kit to meet our requirements.

25X1A

[redacted] is modifying one survival kit for tests and evaluation. Estimate delivery in January 1972.

4. NASA Trip - Houston, Texas - The project Life-Support Officer visited the NASA manned Spacecraft Center, Houston, Texas, to compare and contrast the Apollo and Sky Lab Life Support systems with the IDEALIST system. The NASA approach to Life Support can generally be stated as one pressure suit for one space mission. With this philosophy, service life is of no consequence and suits are fabricated to provide the very best in pressurization, mobility, and comfort with no consideration directed toward repeated use. Mobility is provided by means of molded rubber convolutions and the crew member operates in a 100%-oxygen environment throughout the mission. Although the NASA full pressure suit is ideal for its intended use, the same approach to the IDEALIST program would be unacceptable. This comparison between the NASA effort in crew equipment and the U-2 equipment was felt to be quite productive.

C. Training

1. Parasail Winch Modification - A new power winch was installed in the tow boat and used during parasail training at [redacted] in June 1971. The winch is gasoline driven with an automatic transmission. This transmission was proved unsatisfactory, and modifications were explored. It has been concluded that a standard four-speed transmission with a clutch would be most desirable. This modification will be completed during January 1972.

25X1A

25X1

25X1A

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1 - EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

Control System Only

TOP SECRET

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

25X1

[Redacted]

25X1A

[Redacted]

25X1

Section 2

25X1

[Redacted]

OPERATIONAL SUMMARY AND STATUS

(1 OCTOBER 1971 - 31 DECEMBER 1971)

I. OPERATIONAL MISSION SUMMARY

A. Eight IDEALIST/TACKLE operational missions were alerted during this period. Seven were flown, and one was cancelled due to deteriorating weather. All missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. Following is a summary of missions completed:

25X1C

25X1C

1.

[Redacted]

This mission was designed to collect photo

[Redacted]

25X1D

25X1

information along the north China coastal area from the Shantung Peninsula northward to the Port Arthur area. Thirty-one of the programmed 39 COMIREX targets were photographed. In addition, photography of 16 bonus targets was obtained. Photo

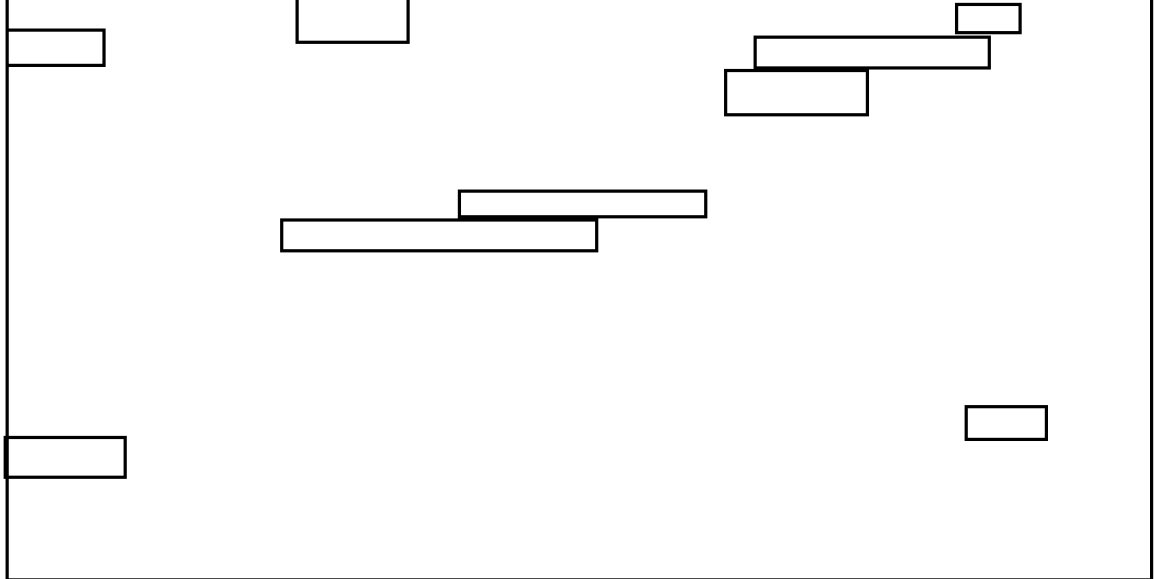
25X1D

[Redacted]

25X1C

25X1

25X1C



25X1

25X1

25X1A

25X1

25X1A

[Redacted]

Control System Only

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

TOP SECRET

GROUP 1. EXCLUDED FROM
DOWNGRADING
AND DECLASSIFICATION

25X1

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6

Next 3 Page(s) In Document Exempt

Approved For Release 2006/01/03 : CIA-RDP33-02415A000800040002-6