



[Redacted]
[Redacted]
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28 November 1967

MEMORANDUM FOR: Deputy Director for Science and Technology

ATTENTION : [Redacted]

SUBJECT : [Redacted] Briefing of the DCI on 1967 Accomplishments

Attached per your request are [Redacted] inputs to subject presentation for the DD/S&T's consideration.

[Redacted]

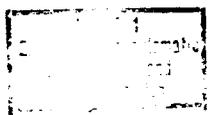
Attachments

[Redacted]

Declassified and Released by the N R O

In Accordance with E. O. 12958

on NOV 26 1997



[Redacted]

TOP SECRET

HANDLE WITH [Redacted] CONTROL OVERSEAS ONLY

[REDACTED]

[REDACTED]

I

[REDACTED]

1. [REDACTED]

2. [REDACTED]

3. [REDACTED]

4. [REDACTED]

II

[REDACTED]

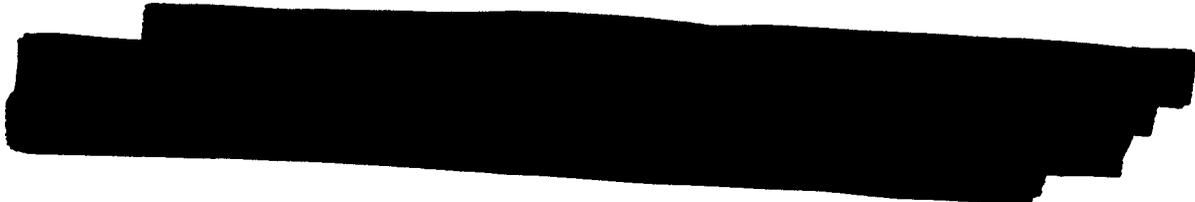
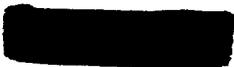
1. [REDACTED]

2. [REDACTED]

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III



[REDACTED]

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I

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1. [REDACTED]

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II

[REDACTED]

1. [REDACTED]

III

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1. [REDACTED]

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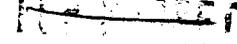
CORONA

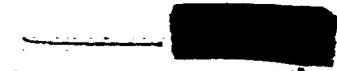
I MAJOR ACCOMPLISHMENTS - CY 1967

1. The successful launch and recovery of the first J-3 system has been accomplished. This J-3 system incorporated a substantial modification to the earlier J-1 system which permits the spacecraft to fly lower orbits thus obtaining better photographic scale, i. e., more information content per picture as well as better resolution. While the system experienced some difficulty because the spacecraft was running cold (a problem outside of our jurisdiction), we were able to ascertain that the system did accomplish resolutions at 6 feet as opposed to 10 feet in the J-1 system. A significant result, intelligence-wise, was the ability of the J-3 system to permit PI's to distinguish between different types of military vehicles, i. e., tanks from trucks from half-tracks. The second J-3 is scheduled for launch in December of this year.

2. A test program was initiated titled EKIT which employed a satellite camera in a U-2. The purpose of the Program was to determine the feasibility of increasing the information content of satellite photography by utilizing various types of film, i. e., color, bicolor, infrared, as well as permitting the detection of camouflage and the use of photography at night. The success of this test program has encouraged us to make full utilization of the new capabilities of the J-3 system for handling various types of films. A test program is under way as part of our engineering evaluation of the J-3 system--on orbit--to ascertain the actual application of various type films for satellite use.

3. In an effort to streamline our launch procedures as well as reduce time lost prior to launch and also increase the system reliability, we implemented a program to permit the payload to move directly from our integration facility in San Francisco to the pad for launch without incurring delays previously incurred during many teardown and inspection operations conducted in support buildings adjacent to the pad.


TOP SECRET





4. During the course of 1967 there were 7 successful J-1 missions covering 50 million square miles of the Sino-Soviet Bloc in useable stereo photography and producing the following illustrative examples of significant intelligence:

a. Of the 180 individual Soviet SS-9 and SS-11 silos identified during the period 1 January through 28 November 1967, 131 or 72 percent were detected by KH-4; a larger number of silos is estimated, of course, since some of those detected signal the beginning of new silo groups. In addition, in November, KH-4 detected the first Soviet dummy silos.

b. Good quality KH-4 coverage in February of the large plutonium factory at Yumen, China, showed vapor emitting from the six cooling towers. This photography provided the first indication Yumen was operating, thus demonstrating China's capability to go into quantity production in 1968 of nuclear weapons containing plutonium.

c. Also during February, KH-4 Mission 1039 obtained the first, complete good quality coverage of the Soviet SS-9 complex at Uzhur since November 1965; twelve new silos were detected.

d. Extensive KH-4 coverage of Arab airfields in June provided an excellent assessment of the damage inflicted by the Israelis on the Arab air forces.

e. During June, the most complete photography for twelve months of the Soviet Northern Fleet naval bases was obtained by Mission 1042. A total of nearly 100 submarines at thirteen bases were identified, including six H-class ballistic missile submarines.

II PROJECTED ACCOMPLISHMENTS FOR CY-1968

1. It is planned to launch four J-1 and four J-3 systems during Calendar Year 1968. Commencing with the J-3 launch in May, we will incorporate a new lens which has the promise of providing approximately 20 percent greater resolution over the current lens design.

2. In August 1968 with the flight of the fifth J-3 system, we will employ an ultra thin base film for the first time which will result in approximately twice the present film load without an increase in weight.

3. By November 1968 with the flight of the sixth J-3 system, we will incorporate a new command system known as the Shift Register which will offer virtually an unlimited selection for camera operations.

III

PROBLEMS

There are no technical problems of note. Our relationship with the Air Force CORONA team is most satisfactory.

DESIGN AND ANALYSIS DIVISION

I MAJOR ACCOMPLISHMENTS - CY 1967

1. Continued effort in the preparation of computer software to support the Satellite Operations Center for camera commands to the CORONA Program. Similar efforts also are under way for the [redacted] system.

2. [redacted]

3. [redacted]

4. [redacted]

II PROJECTED ACCOMPLISHMENTS - CY 1968

1. [redacted]

2. [redacted]

III PROBLEMS

1. [redacted]

2. [redacted]

[redacted]

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CORONA

HANDLE VIA CONTROL SYSTEM [redacted]

CORONA

3. Obtainment of NRO funding to permit an orderly programming of R&D activities. At the moment, we are receiving piecemeal authorization making the management of contractors and future activities most difficult.

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CORONA

~~HANDLE VIA CONTROL SYSTEM ONLY~~