CORONA [redacted]

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OSP REGISTRY FILE COPY

28 JUL 1970

MEMORANDUM FOR: Director, CIA Reconnaissance Programs

SUBJECT : OSP's NRO Quarterly Report on NRP Satellite Systems

Attached for your consolidation into an overall CIA Reconnaissance Report is OSP's NRO Quarterly Progress Report. Two additional copies are attached for Dr. McLucas and Gen. Allen, and one copy each of CORONA and [redacted] is attached for forwarding to [redacted]

[redacted]
Director of Special Projects

Attachment: a/s

CORONA [redacted]

~~TOP SECRET~~

HANDLE VIA [redacted] CONTROL SYSTEM ONLY

SUBJECT: OSP's NRO Quarterly Report on NRP Satellite Systems

Distribution:

[redacted]

(21 July 1970)

[redacted]

QUARTERLY PROGRESS REPORT

SATELLITE SYSTEMS

1 April through 30 June 1970

I. CORONA PROGRAM

A. System Status

1. Mission 1109 (CR-10) Performance Evaluation Team (PET) meeting was held at NPIC on 14 and 15 April 1970. The PI's rated the mission fair to good. Small scale due to higher altitudes (85 nm to 105 nm) affected the PI readout. Mission 1109 had fewer anomalies than any other J-3 mission to date.

2. Mission 1110 (CR-11) was launched from VAFB on 20 May 1970. The mission was completed without incident. The "A" recovery was made on 31 May and the "B" recovery on 8 June 1970. NPIC assigned MIP's of 90 and 95 to the "A" and "B" portions respectively. The PET meeting was held on 16-17 June 1970. System performance ranged from good to poor. The PET report lists scales, lens performance and film lift (due to lower than desired on-orbit temperature) as contributing factors to the system's mediocre performance. Two thousand feet of SO-349 film was utilized on this mission. The PET reported no apparent difference in image quality between 3404 and SO-349. The ability to decrease slit widths and thereby decrease smear components favor future usage of the SO-349 (3414), and the PET recommended its use on all future missions.

3. The next scheduled CORONA payload, CR-12 was removed from storage and flight preparations are being conducted for scheduled launch on 22 July 1970. The early launch date is due to coverage requirements in support of the National Intelligence Estimate on Soviet missile deployment.

4. Refurbishment of the CR-8 instruments and final acceptance tests are in progress at this time.

5. During this quarter, preparations for and actual movement to Building [redacted] and [redacted] continue. The computer facility is operational and was utilized for support of Mission 1110. Vibration equipment and the environmental chamber have been moved to Building 152. The collimator alignment block is complete and available for collimator installation and checkout. Movement of personnel should commence during July.

B. Constant Tension Assembly

The improved CTA (employing dual negator springs) was successfully flown on CR-10 and CR-11. Installation of these devices on remaining systems has been completed.

C. Proposals and Future Changes

1. [redacted] development model timer will be delivered to WCPO the first week of July. Qualification tests are scheduled to start 8 July at the vendor. When qualified, this timer will replace the troublesome Haydon timers in all of the remaining J-3 systems.

2. Glass Filters - Glass filters of .040 and .037 inch thickness will be installed on CR-14 and subsequent systems. On-orbit focal shift tests will be conducted on CR-14 by shifting from the .037 filter (primary) to the .040 (alternate) filter. These tests hopefully will enhance our knowledge of peak focus positions when the systems are on-orbit.

D. Low R.H. Film Test

Tests of the effects of low relative humidity on flight film have been completed and preliminary test results published. Results indicate that low R.H. film maintains a flatter profile than normal R.H. film. A study is being conducted on how low R.H. film could be implemented into the CORONA Program.

E. Mission Completed This Quarter

Mission 1110
Booster No. 69-045
Agena No. 1656
Payload No. CR-11
Instrument No. 322/323
S.I. No. 10
Film Type - Main Instrument: 3404/SO-349 (2000 ft.)

Flight Date: 20 May 1970
Feet P/L Flown: 32,600
Feet P/L Recovered: 32,600
Recovery Dates: 31 May 1970; 8 June 1970

F. Missions Planned for Next Quarter

Date: 22 July 1970
Mission 1111
P/L: CR-12

G. Meetings and Briefings

1. Thermal/Focus Meeting, 28-30 April, at Itek.

2. Briefing given at AP to DD/S&T Training Class, 27 April.

3. Briefing and tour given at AP to Vice Admiral Harold G. Bowen, Jr., Deputy Assistant Secretary for Intelligence in the Office of the Secretary of Defense, and [redacted] on 12 May.

4. Managers Meeting held at AP on 13 May.

5. NPIC and TOPOCOM Personnel given AP tour and briefing on 18 May.

6. FY 71 level-of-effort negotiations with LMSC and Itek (West Coast Division) were completed on 17 June.

7. FY 71 negotiations with G.E. and Itek (Boston) were completed on 24 and 25 June respectively.

NOTICE OF REMOVED PAGES

Pages 4 through 25 are not provided because their full text does not contain CORONA, ARGON, LANYARD programmatic information.