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CORONA

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29 JAN 1971

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 one copy each of CORONA and [redacted] is attached for forwarding to [redacted]

[Handwritten signature]  
[redacted]

Attachment: a/s

[Stamp]

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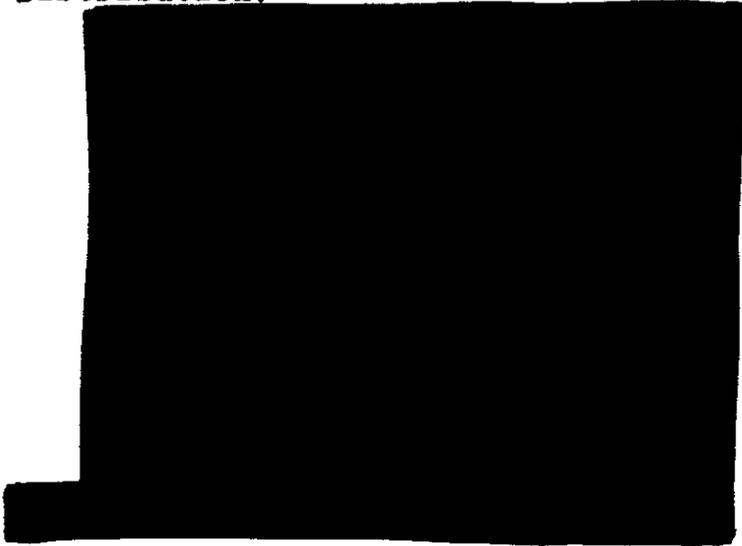
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SUBJECT: OSP's NRO Quarterly Report on NRP Satellite Systems

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CORONA





QUARTERLY PROGRESS REPORT

SATELLITE SYSTEM

1 October 1970 through 31 December 1970

I. CORONA PROGRAM

System payload QR-2 (Mission 1112) was launched successfully on 18 November. This system operated normally during the filling of the first re-entry vehicle. Immediately following the clamp and cut sequence and transfer to the second re-entry vehicle, both the forward looking main camera and the DISIC ceased transporting film. The main camera system was operated monoscopically for the remainder of the mission. The film jam in the main camera was established as being caused by a foreign particle becoming lodged in a film metering mechanism. The DISIC camera failure was traced to the failure of the film take-up. The recovery of both re-entry vehicles was normal. The general photographic performance was comparable to the best obtained with the CR system. MIP ratings of 115 were given to both cameras.

The degradation in optical performance of the forward looking camera of CR-13, which prompted the decision to fly QR-2 vice CR-13 on Mission 1112, was corrected by the Contractor. The system was retested and found satisfactory for the next flight.

The flight scheduled for 6 January 1971 was canceled and the 10 March 1971 flight was advanced to 15 February 1971.

The status of the remaining systems is:

- CR-13 In flight preparation
- CR-14 In R-25 backup status
- CR-15 Pre-storage
- CR-16 Undergoing retracking tests
- CR-8 Undergoing acceptance

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**Pages 2 through 5 are not provided because their full text does not contain CORONA, ARGON, LANYARD programmatic information.**

B. CORONA Mission Planning and Operations

One CORONA mission was supported with mission planning and on-orbit targeting activities during this quarter.

C. System Mix Evaluation Study

The computer program for the evaluation of mixes of photographic systems was extended to include a search task in the exploitation and analysis models. The studies of spotting system statistical prediction established the essential difference between target selection processes for systems with single degree-of-freedom and two degree-of-freedom pointing.

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