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~~CORONA HEXAGON GAMBIT IDEALIST~~



BYE-109023-70  
Copy 10 of 14  
27 November 1970

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 68

I. CORONA

A. Accomplishments

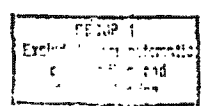
- 1. QR-2 Mission 1112 "A" recovery expected to be accomplished on 27 November depending upon weather in the recovery area.
- 2. CR-8 SRV's were delivered on 25 November 1970.

B. Problems

CR-15 slope programmer failure analysis is continuing.

C. Projected Status

- 1. QR-2. Day 1 "B" mission.
- 2. CR-13. Pre-storage preps.
- 3. CR-14. Back-up storage.
- 4. CR-15. Pre-storage preps.
- 5. CR-16. Tracking.
- 6. CR-8. Receiving.



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D. Operations Mission III2

After "A" to "B" transfer, the forward-looking camera ceased transporting film. Reason is unknown but suspect are (1) an instrument jam caused by mistracking film, and/or (2) broken film. Investigation is continuing. The aft-looking camera is showing normal operation. The DISIC camera also ceased transporting film after its "A" to "B" transfer. The cause is unknown.

II. HEXAGON

Model Status

1. Development Model (SDV-III)

It is expected that SDV-III will be removed from the A-1 Chamber on 30 November and be ready for installation in the A-2 Chamber on 2 December.

2. SV-1 (SN-003)

(A) Midsection

The midsection was turned over to LMSC on 22 November following completion of the looper modification. The LMSC effort was completed on 25 November at which time the supply was loaded into the vehicle. Final R&I tests will begin on 26 November. The supply was removed from the midsection in order to clear a film jam within the supply which occurred last week. New brake assemblies were installed in the supply.

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**(B) Forward Section**

Film stacking tests have been completed on all TUA's with satisfactory results. Wrap and cut tests are complete. Preparations are underway for implementation of the light leak test. Forward section will be turned over to SVIC on 27 November.

**(C) Schedule**

Assuming no further problems, expect mating of forward section to midsection to be completed on 6 December.

**3. SV-2 (SN-002)**

Special tests are continuing. A metering capstan test with an open 2A3 box is being run over the week end. PE is planning to start MFN 3.09 testing next week. The projected delivery date has now slipped to mid January.

**4. SV-3 (SN-004)**

TCA testing in the clean room prior to vibration testing will be completed on 30 November. TCA vibration is scheduled for 3 December but may possibly occur on 2 December 1970.

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**III. CONFIGURATION CHANGE BOARD**

Major Configuration Change Board activities this week were as follows:

A. Planning and arrangements for the 15-17 December CCB meeting (Headquarters hosting) at [redacted] were finalized. Plans have been made to accommodate Mr. Brownman and Dr. Naka. The Executive Session starts at 0900 hours on 15 December; the meeting with the contractor starts at 0900 hours on 16 December and runs through 17 December. The agenda for the Executive Session includes presentations on:

1. The NPIC R&D Program for FY 71
2. The NPIC Color R&D Program
3. The HEXAGON Free Radical Camera Speed Film Development Program
4. The D&AD 3M Camera Speed Film Development Program
5. The Westover Evaluation of Non-Silver Duplicating Films and Their Impact on the Production System

Of the above, items 1 through 4 should be of interest to D/OSP.

B. The preliminary agenda for the CCB meeting was obtained telephonically. It is as follows:

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**1. Special presentations:**

a. SO-242 Geology Study  
(Mission 1108)

b. NPIC Mensuration Study

c. CCB History

**2. Review of Government/Contractor  
Action Items**

**3. PAR Status Reports**

a. PAR 182S, Color Program Study

b. PAR 161B/R2, Optical Titling  
Breadboard

c. PAR 172S, Duplication Study  
(EK and NPIC presentations)

d. PAR 165B/R2, HEXAGON Pre-  
Splice Complex

e. PAR 173B, Automatic Scene  
Camera

f. PAR's 176B/R2, 177S/R1, 171S,  
Review of Effects on Schedule as a Result  
of Directed Stretchout

**4. New Proposals**

a. PAR 25-1-3S, Image Evalua-  
tion by Means of Information Measure

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b. PAR 23-1-11S, Parameters of Contact Printing Study

c. PAR 25-1-6S, Color Image Evaluation Methods. Preceded by complete review of PAR 25-0-6S which was a preliminary study on this area.

d. PAR 188S, Improvements in Mensuration Study

e. PAR 190S, Protection Treatment for Color Acquisition Films

f. PAR 185S, Interframe Color Control Lamphouse Study

Item 1. a. should be of interest to D/OSP. This is a presentation we are sponsoring which is the result of work done on the CORONA Program (Mission 1108) by Itek. The following items are also considered of interest to D/OSP: 1. c., 3. a., 3. b., 3. c., 3. d., and 4. a., 4. c. Further details can be obtained from R. Kohler.

C. A special U-2 (Red Dot) flight was arranged for the week of 30 November 1970 employing the Delta III configuration. The purpose of this flight is to flight test a new, very special film developed by EK.

D. Assistance was given to ORD in the processing of some extremely sensitive (security-wise) SO-242 color film.

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E. Coordinated on NPIC/DIA evaluation of an experimental duping film employed for the first time on Mission 4329. Tests are to also be run with this film on 1112. This film is a higher resolution duplication material.

IV. Meetings Requiring Participation of Headquarters Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>PE</u>		
1 Dec	Follow-On Cost Audit	<input type="text"/>
2 Dec	Monthly Technical Review	Staff
3 Dec	Performance Factor Discussions	Patterson <input type="text"/>
3 Dec	Spares and Maintenance Meeting	<input type="text"/>
<u>RCA</u>		
3 Dec	P3-3 Buy-off	<input type="text"/>
<u>EK</u>		
1 Dec	Film/Core Pressure Meeting	<input type="text"/>
<u>HQ</u>		
1 Dec	SETS Program Review	Staff

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DONALD W. PATTERSON  
D/PRS/OSP

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