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BYE-107435-70  
Copy 10 of 14  
5 June 1970

**MEMORANDUM FOR: Director of Special Projects**

**SUBJECT : Photo Reconnaissance Systems Report No. 43**

**I. CORONA**

**A. Accomplishments**

1. Mission 1110 operations are continuing. As of R Plus 15, 61% of the "B" mission has been completed. Evaluation of the "A" portion has resulted in a preliminary MIP of 90. Further review of this mission will be conducted at the PET Meeting.

2. CR-13 began block tests.

3. CR-14 HIVOS test was initiated.

4. Facilities status:

a. The Building 156 courier vault has been completed.

b. Work on the third floor vault has been delayed due to unavailability of the vault door and the alarm system. These items should be available in the next two weeks.

c. The Building 156 O&A area contract has been allocated; however, the previously reported estimated complete date of 12 June could slip about two weeks because a security fence must be added.

d. The Building 152 collimator alignment block is 90% complete, with the spring and collimator installation and check-out remaining.

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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**SUBJECT: Photo Reconnaissance Systems Report No. 43**

e. The Building 152 clean room and system test area are respectively 70% and 75% complete. The shaker and test chamber have been installed.

f. The A/P facility restoration meeting finalized agreements for its return to Hiller.

5. Component test box procurements by Itek, Palo Alto, should be completed by 10 June. Unit #87 had a delay because of parts unavailability; however, assembly of parts is in progress.

**B. Problems**

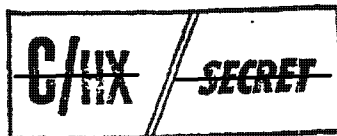
A review of Mission 1110 temperatures and the "A" portion focus results, indicating non-optimum temperature-focus correlation, necessitated another block test of CR-12. Additionally, an ambient "Dr. A" test will be conducted prior to the block run.

**C. Projected Status**

1. CR-11. Mission 1110 operational.
2. CR-12. Reblock preps.
3. CR-13. Block test.
4. QR-2. Block preps.
5. CR-14. HIVOS.
6. CR-15. Temporary storage.

BYE-107225-70

Page Two



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**C/HX** // **SECRET****SUBJECT: Photo Reconnaissance Systems Report No. 43****II. HEXAGON****A. General**

1. The take-ups are doing very well both in terms of schedule as well as in terms of design and testing. The next two take-ups are scheduled for delivery in mid-June, as contrasted to a need date during the second week of July at McDonnell-Douglas. P.E. has given RCA need dates one month in advance of the P.E. contract dates. RCA has gone to a normal two-shift, five-day week and should still easily meet their contract dates. P.E.'s contract dates are based on two month centers versus three month centers for the Air Force contracts (including McDonnell-Douglas). This leads to a greater disparity between the delivery dates and the real need dates and presents a storage problem (which is the type of problem to have).

2. During the month of May, the WCPO 360/65 was used approximately 240 (CPU) hours in support of the "C" and "H" programs. 2989 jobs were processed in May. The IBM 2701 that was originally ordered has been delivered. This 2701 is equipped with a synchronous data adapter and a parallel data adapter.

3. SETS has experienced difficulty in reviewing portions of the P-1 FACI data. P-1 FACI data received for review to date includes Test Data Logs, Fabrication Records and Inspection Data, MRB Records and Reports, and Failure/Malfunction/Corrective Action Reports; all for the TCA. The difficulties include problems of data correlation between the fabrication records and the failure, malfunction, and corrective action reports. Assembly of the malfunction reports is inconsistent, and many of the reports are illegible. A meeting is scheduled at P.E. on 9 June 1970 to resolve the problem.

4. The annotated test procedures for P-1 midsection low level vibration, EM baseline, and light leak tests have been received and are being reviewed by SETS and Headquarters. Only two of the P-1 "quick-lbok" reports required for FACI have been received because of P-1 technical problems which have delayed the tests and subsequent analysis.

BYE-107435-70  
Page Three**C/HX** // **SECRET**HANDLE VIA BYEMAN  
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<b>C/HX</b>	<b>SECRET</b>
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**SUBJECT: Photo Reconnaissance Systems Report No. 43**

5. An "incremental" FACI of the P-1 TCA is currently scheduled for 16 June 1970. The remainder of the P-1 FACI (midsection) will be scheduled subsequent to Chamber "A" testing.

6. P.E. is expected to commence spare parts procurement activity next week for the three pieces of LMSC AGE at SVIC. P.E. Aerospace will handle the procurement. P.E. and AC will meet on 8 June 1970 to work out the SSTC spares procurement. PSO can obtain approximately 25% of the 4 RV T/S bench level spares. (These are FSN items.) The PSO has visited P.E. to verify the configuration of the parts and became more familiar with the equipment. It is felt advisable to allow the PSO to procure these items so that they can start getting set up for the follow-on program. The Project Office plans to utilize PSO's resources to the fullest on the follow-on program in the areas of integrated logistics support, spares provisioning, etc.

7. Eastman Kodak has completed the first phase of their low RH film production facility modification on schedule. They will commence film delivery to P.E. on 9 June 1970 with three 26,000 ft. rolls.

**B. Development Model (SDV III)**

1. Forward Section - The assembly and test of the forward section is now essentially complete. Present efforts are directed toward the installation of five thermocouples and the correction of thirteen minor Q.A. actions. These activities are expected to be complete by COB 4 June 1970.

C. 2. The midsection R&I testing was halted due to clogged air bars in the twister and cross-over areas on both cameras. The "A" platen has also been hitting the stops, and fault isolation continued during the system down time. The air bars were removed and returned to SSC for cleaning and also the repair of a defective roller. They are due to be returned to SVIC on 4 June. The platen problem has been tentatively isolated to noise on the OB encoder which is

BYE-107435p70  
Page Four

<b>C/HX</b>	<b>SECRET</b>
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~~C/IX~~ // ~~SECRET~~

**SUBJECT: Photo Reconnaissance Systems Report No. 43**

causing additional counts in the platen subtractor network. A decision will be made on 5 June as to whether the OB encoder should be replaced and, if so, when. Completion of mid-section R&I and beginning of mate for system test is now scheduled NLT 12 June 1970.

**C. Flight Article # 1**

The metering capstan summed error signal on Camera "A" is unacceptably noisy. During troubleshooting of this problem, a cable tester (DITMCO) was inadvertently connected to the Camera "B" electronics. It is not known at this time how much, if any, damage was done to the "B" Camera.

**D. Flight Article # 2**

The TCA vibration test was conducted on 5 June vs. 3 June. The reason given for the slippage is that the manufacturing and test personnel were required for the higher priority job of trouble shooting P-1. It is not known at this time if this slip will impact the 17 June milestone of TCA installation in the midsection. The TCA acoustic test is scheduled for 6 June 1970.

**III. Meetings Requiring Participation of Headquarters Personnel**

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>P. E.</u>		
9 June	P-1 FACI Data Review	
10 June	Pneumatics/Qual Certification Meeting	
11 June	Forward Film Path Elements FACI	
11 June	Ops Discussions w/Gen. King	Patterson
12 June	Forward Film Path FACI Report	

BYE-107435-70  
Page Five

~~C/IX~~ // ~~SECRET~~

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~~C/IX~~ // ~~SECRET~~

**SUBJECT: Photo Reconnaissance Systems Report No. 43**

Date                      Subject                      Attendees

LMSC

9-10 June	A&T IFWG	Burke
10 June	Operations IFWG	<input type="text"/>
11 June	Integrated Schedule IFWG	<input type="text"/>

Hqs.

10 June	"Free Radical Film" Briefing to Mr. Duckett and Dr. Naka	Kohler, <input type="text"/>
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Mr. Dongieux will be on annual leave 8 - 10 June 1970

*[Signature]*  
  
 PMO/PRS/OSP

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BYE-107435-70  
Page Six

~~C/IX~~ // ~~SECRET~~

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