

BYE-107590-70

Copy 10 of 14

19 June 1970

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 45

I. CORONAA. Accomplishments

1. The Mission 1110 PET Meeting was concluded with the writing of the Peir Report.

2. Dr. "A" and block test were completed on CR-12 after deshimming.

3. CR-13 completed its testing and was deshimmied.

4. Thru-focus and resolution tests on QR-2 were completed.

5. Level-of-effort negotiations for FY 1971 with LMSC and Itex (Palo Alto) were completed.

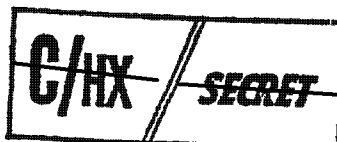
B. Problems

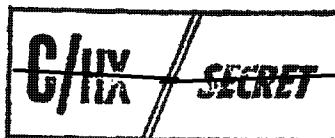
Ripple filters were found to be mismarked after calibration. All stock and system-installed filters are being retested to determine proper marking.

C. Projected Status

1. CR-12. Flight preps, instrument cleaning, and capsule recycle.

2. CR-13. Storage preps.

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3. QR-2. Block test - "A" SRV weight and balance completed.
4. CR-14. Block preps.

II. HEXAGON

1. The Sensor Subsystem test program is being revised to conform with Appendix F and G of Revision D to the performance specification and with the midsection CEI specification. The acceptance plan described by these two documents is essentially the same as that described by the previously used HEX-2571-67 Acceptance Test Procedure. Appendix F of the Revision D performance specification is now the sole source for planned qualification testing.

2. The SETS review of the P-1 FACL data package is continuing. Many of the problems associated with malfunction data correlation (Weekly Report - 5 June) have been resolved through direct discussions with appropriate SSC QA personnel. The documentation deficiencies are to be corrected for formal FACL. Legible malfunction reports will be available at FACL, but the problem of legible copies remains because of the type paper from which the reports are copied as well as the handling and reproduction procedures. SSC is trying to improve the situation.

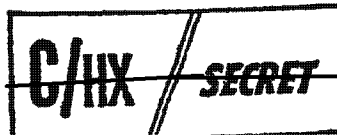
3. SSC is expediting copies of the P-1 electronic package test procedures to SETS for review and comparison with the D Model annotated procedures. The SSC (13A1) and PDS (14A1) boxes are believed to have the most significant differences.

4. Film deliveries during the week:

- 2 - 105,500 ft. rolls - Type 1414
- 3 - 26,000 ft. rolls - Type 1414
- 2 - 10,000 ft. rolls - Type 1414 for RCA

5. AC is still in the process of preparing cost and delivery data for P.E. on the SSTC spares. A response was expected this week but it has slipped at least one week.

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6. Personnel from [redacted] visited Bldg. 156 this week for familiarization with the assembly and test activity. Particular emphasis was placed on the pieces of test equipment which support the A&T flow.

7. The installation and testing of the originally ordered 2701 equipped with synchronous data adapter and a parallel data adapter has been completed at the West Coast computer facility. Acceptance test schedules for the parallel data communications interface unit have been made for next week with P.E. Aerospace representatives. Version 18.6 of the 360 operating system was reviewed by L. Verjinski at Hqs.

8. Representatives from SETS spent two days of MACFACT testing and program checkout using SSTC-generated data at the West Coast facility. Further testing will be required for P-1 Model data.

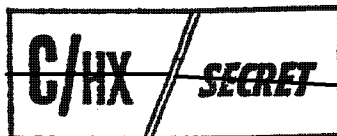
B. Development Model (SDV-III)

Forward Section - Investigation indicates that the payload mis-tracking problem reported last week most likely resulted from a loss of tension in the film path during preparations for the light leak test. The film path has been reconstructed and proper tracking has been restored. The forward section is ready for mating.

Midsection - The midsection was turned over to SVIC on 17 June. The engineering buy-off was completed on 18 June, and midsection commenced mating to the aft section that same day. The midsection will be mated without the fine film path properly functioning on the "A" side. The OB "A" encoder is scheduled to be replaced prior to acoustic testing.

C. Flight Article #1

The in-air test results showed unacceptable platen performance on both sides. The in-flight smear, as measured from the "C" targets, is unacceptably high. The midsection has been removed from the chamber for trouble shooting. The metering capstan on Camera "B" has a peak error of about .2 inches per second.



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D. Flight Article No. 2

Retrofit activity - primarily the platen area - has consumed this week. The first of the retrofitted platens was reinstalled on 18 June (P.M.) and consisted of the new slit and shutter assemblies, an improved locking cam, and some new light pipes. The supply has been through vibration and acoustic tests. It is now in final post-vibration test and then will be loaded with the large film rolls. It is expected to be loaded into the midsection on 23 June. The P-2 sequencer (13A1) has an integrated circuit (7407) whose lot failed the Group C SCD testing and which, in the Project Office's opinion, has a high probability of failure during testing. P.E. recognizes this and is generating a retrofit plan to use another sequencer in P-2. This should be done prior to P-2's Ready Room "A" tests, which will hopefully commence during the week of 29 June. It must be done in time for the pre-Chamber "A" baseline tests, which are currently scheduled for mid-July.

III. Meetings Requiring Participation of Headquarters Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
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P.E.

23 June	Design Improvement Studies	
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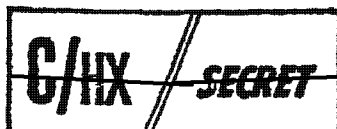
24-25 June	P-1 TCA FACI Review
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25-26 June	Critical Test Point EMC Qual
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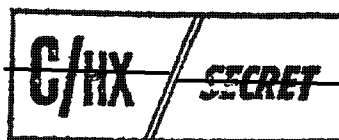
LMSC

25 June	MACFACT Discussions	Burke
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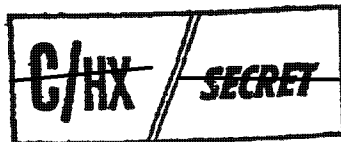
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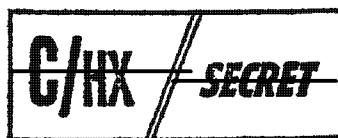


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<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>RCA</u>		
25 June	Take-Up Acceptance Tests	<input type="text"/>
<u>EK</u>		
25-26 June	Core Pressure Test	<input type="text"/>
<u>HQS.</u>		
24 June	GE CORONA LOE Negotiations	<input type="text"/>
24 June	GE Capabilities Briefing	<input type="text"/> D&AD Representatives
25 June	Itek CORONA Analysis LOE Negotiations	<input type="text"/> , Kyhler, <input type="text"/>
<u>Annual Leave</u>		
25-28 June		<input type="text"/>
22-26 June		D. Patterson
26 June		<input type="text"/>

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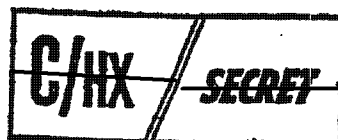
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Distribution:

Cy 1 - D/OSP
Cy 2 - DD/OSP
Cy 3 - D/PRS/OSP
Cy 4 - EO/OSP
Cy 5 - C/D&AD/OSP
Cy 6 - CB/OSP
Cy 7 - C/PAD/OSP
Cy 8 - C/SB/OSP
Cy 9 - C/SS/OSP
Cy 10 - RB/OSP
Cy 11 - PRS/File
Cy 12 - PRS/Chrono
Cy 13 -
Cy 14 -

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