

BYE-108032-71 Copy 10 of 14 19 March 1971

MEMORANDUM FOR: Director of Special Projects

SUBJECT:

: Photo Reconnaissance Systems Report No. 84

I. CORONA

A. Accomplishments

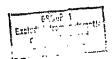
- 1. CR-14 was shipped to VAFB for Mission III4 Launch on 24 March 1971. Receiving and launch preps are now in progress.
- 2. The six pack study inputs from the contractors are being amalgamated and coordinated with the SPO and the results will be reviewed by SSPO at the WCPO on 24 March.

B. Problems

Problems have caused the "Arroya" (P-11 payload) to be replaced with a mass simulator in order to keep the 24 March launch date.

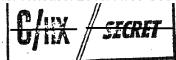
C. Projected Status

- 1. CR-14. Launch preps.
- 2. CR-15. Backup preps.
- 3. CR-16. Block preps.
- 4. CR-8. Assembly and integration.





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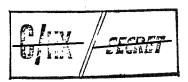


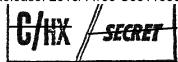
II. HEXAGON

A. General

- 1. A formal request was prepared for NRO funds to initiate the study phase for the Block II HEXAGON System competition. Subject to NRO fund authorization, it is planned that the data packages for the study will be released to four contractors (including Perkin-Elmer) by 15 April.
- 2. The discussion with the SPO on on-orbit operations interfaces and responsibilities still has neither been accomplished nor scheduled.
- 3. On 16 March, the 'TUNITY output generated from the acceptance test runs on the modified 'TUNITY software was examined by SSPO, PE, CSC and Aerospace. Only a few minor problems were uncovered, and thus the modified 'TUNITY should be available on schedule.
- 4. A general discussion of "HOPE"/"MACFACT" was held at the WCPO on 15 March. Several modifications and improvements to "HOPE" were discussed, and a final SV-1 format established. "HOPE" operational support procedures during SV-1 were discussed, and preliminary plans outlined for the WCFO to provide primary support with TRW acting as backup.
- 5. The construction of a third analysis room at the WCPO is now underway. The construction is due to be completed within three weeks. The documentation of the 360 operating system release 20 has been delivered and is currently being reviewed. This release of the operating system is planned for implementation in June. A program

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technique to allow multi-programming during the transmission of data from the SSTC is currently being tested. Concurrently, a study is being conducted to determine the feasibility of using a Hewlett Package 2116C with an attached tape drive to service the SSTC.

B. Model Status

1. Development Model (SDV-III)

SDV-III is at VAFB undergoing mechanical fit tests including removal of an RV. PE work is virtually complete.

2. SV-1 (SN-003)

SV-1 is undergoing thermal vacuum testing in Chamber A-1. The PE portion of "normal Day 1" (as modified) is complete, and the "normal Day 2" operation began on 18 March. Per present schedule, A-1 testing should be complete on 24 March.

3. SV-2 (SN-002)

a. Forward Section

The SV-2 F/S is completely assembled and aligned. Manual mode tests have been accomplished on all four TUA's. Film transport testing is scheduled to begin on 19 March.

b. Midsection

The supply has been reloaded and installed into the midsection. M/S leveling has been checked by SVIC, and the TCA twist measurement is currently being taken. The

C/IIX SSEEST

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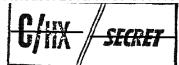
sensor is scheduled for operation the morning of 19 March. Based upon a success schedule, the M/S could be turned over to SVIC during the period 24-26 March. Under this condition (with nine days of SVIC work remaining), the M/S would be ready for mate on 6 April, assuming no Sunday work. It has not yet been determined why there was loose film in the bottom of the supply when the covers were removed. PE's position is: "It could have occurred on the east coast or the west coast, but probably not during shipment. " West coast attempts to determine the cause of the problem have isolated the Supply Test Station (SUTS) as the one possible culprit. The SUTS has, however, been used twice following the initial hookup with all operations normal. PE (Danbury) has been verbally requested to submit a TWX report on the results of their investigation.

4. SV-3 (SN-004)

PE experienced a takeup film tracking problem on SN-004 which they are blaming on the film taper (non-uniformity of edge-to-edge thickness). The maximum taper that was measured is 85 millionths inches. The tracking problem appears to have occurred during the last 700 feet of test film on the takeup. The tests were run with the TU builder roller "up" signal overridden, so there is a question as to the roller force being exerted on the film stack. PE has installed wedge sensors on this TU (P2-2) which will measure the amount of builder roller tilt. PE states that the camera is tracking very well and vacuum acceptance tests will begin on Monday, 22 March.

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5. SV-4 (SN-005)

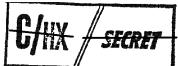
The "B" side OB is going through a series of checkout tests. The "A" side OB was installed on 18 March. Vibration tests on the completed TCA are scheduled for 31 March, and the TCA is expected to be installed in the midsection between 10-12 April. To date, no problems have been encountered with the model and it is about three days ahead of its projected schedule.

III. Meetings Requiring Participation of Headquarters Personnel

Date	Subject	Attendees
TRW		
23 Mar (morning)	Program Discussions	Patterson
VAFB		
23 Mar	Mission 1114 R-1 Meeting	Patterson.
24 Mar	Mission III4 Launch Activities	
STC		
24 Mar	Mission 1114 Observation	Patterson
WCPO	,	
25 Mar	Administrative Discussions	,

C/M SCRET

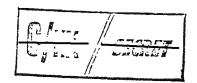
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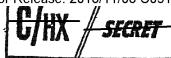


PE			
23 Mar	SN-004 Readiness Review		
	,		
SAMSO			
25 Mar	Managers Meeting	Patterson,	
26 Mar	Program Discussions	Patterson,	
Itek			
24 Mar	Visual Edge Matching Equipment Acceptance		
	Edulbuteur vecehrance		
Westover AFB			
25 Mar	Review Westover Require-		
	ments for Advanced Micro- densitometer		
RCA			
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25 Mar	P5-1 Takeup Buy-off		
HQ			
24 Mar	"H" Program Briefing to		
(afternoon)	Resident Field Security		
	Officers		

DONALD W. PATTERSON D/PRS/OSP

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