

BYE-110321-71
Copy 10 of 14
13 August 1971

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 105

I. CORONA

A. Accomplishments

1. CR-15 Mission 1115 was deshimmed and a thru focus run successfully completed. System is planned for launch on 8 September.
2. CR-8 re-assembled and confidence run completed.

B. Problems

No major problems.

C. Projected Status

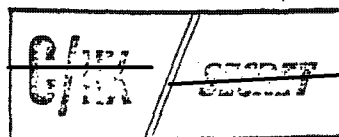
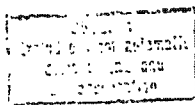
1. CR-15. Flight Preps.
2. CR-16. R-25 Backup.
3. CR-8. Storage Preps.

II. HEXAGON

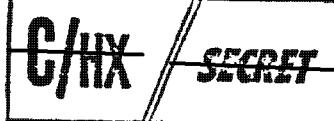
A. Engineering

1. A meeting was held at the

will review. Also, the contractor's monthly report format for spares was reviewed. Subsequent to this meeting, a presentation was given to and Mr. Patterson at Bldg. 156 on spares status.



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2. Continued problems with the drive capstan on the E-Model have delayed the SO-255 tests. The problems were resolved on Thursday and the tests were begun. No results are available as yet. SO-255 color film was transported at 7 psi on the Abbreviated Film Path, and virtually no powdering was observed. The E-Model tests are being run at spec pressure (3.5 psi).

3. P.E. is planning to run a test on SN-006 midsection during acceptance testing in an attempt to determine the cause of the corona markings. After the completion of the 47°F tests, the "dither" during the film transport pause will be disabled. To allow the "dither" disable, acceptance testing will be run with a piece of STE (Special Test Equipment) installed in the AVE midsection. The configuration of the STE is being reviewed to gain assurance that the validity of the acceptance testing will not be degraded.

B. Operations and Systems Analysis

1. The A2 Chamber retest of SV-2 (SN-002) is being analyzed this week at Westover. The adjustments made to the skew angles and the F knob, as determined from the first A2 Chamber test smear analysis, were implemented correctly in both direction and magnitude. One major problem still needs to be resolved. The analysis of the retest shows that the platen on the B camera needs to have an advance tilt of 30 microns to optimize the performance level. The data is still being analyzed to determine the proper platen setting after the tilt is accomplished. Verification of the proper platen tilt and setting will require a third A2 Chamber test. Scheduling this third test leaves two options to be considered: (1) test SN-002 after the A2 Chamber has been modified with additional collimators; (2) test SN-002 in the present configuration A2 Chamber before modifications begin.

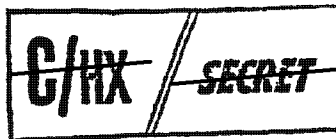
2. A meeting was held at Westover this week to review the progress of the Post-Flight Analysis Report for Mission 1201. All of the contributors to the report presented outlines and the results of their analysis to date. The report is progressing on schedule with an anticipated publication date of 27 September 1971.

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C. Model Status

1. SDV-III (Development Model)

Loading of the mixed film roll for the smear and chamber A2 color tests is in process. An electrical problem on the "A" side, resulting in a run away condition, is delaying this task. Failure to isolate and correct this problem today will result in slipping the smear tests and may result in the special acoustic tests being conducted with neither platen installed. This will not degrade the acoustic test results but will require more time prior to the A2 Chamber tests for installation of the platens.

2. SV-1 (SN-003)

The vehicle was deboosted on 6 August. The STC Post Flight Critique was held on 10 August. The two most interesting items revealed at the meeting were (1) the STC felt that the real purpose or goals of orbit adjust studies were not made clear, and (2) the management structure for HEXAGON operations as understood by the FTFD is not the same as that agreed to by the SSPO.

3. SV-2 (SN-002)

Thermal vacuum testing to revalidate the aft section will begin next Wednesday. The final parachute fix has not been identified. As a result, further schedule information on SV-2 is uncertain. The possible need for a Chamber A2 retest to determine the "B" side platen tilt is under consideration. This may be consistent with a mid-November launch date only if the chute change and RV return to the West Coast is accomplished by about 20 September.

4. SV-3 (SN-004)

System mate is now scheduled to begin 27 August. The aft section will have non-flight ARM and ECS modules. SBAC has not defined the retest requirements to validate the retrofit of these components. Again, the impact of the parachute changes is a big unknown.

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5. SV-4 (SN-005)

Because of the MWC parachute problem, the SBAC R&I activities have been delayed. Sensor Alignment checks and leakage tests will begin 20 August.

6. SV-5 (SN-006)

Horizontal and vertical baseline tests were completed this week. This is the first model to go through acceptance testing with a revised sequence; i. e., all baseline testing prior to chamber tests; no in-air tests after Chamber A tests. The sequencer was changed this week requiring the format illuminator portion of the horizontal baseline test to be repeated. The film from the baseline tests is now being evaluated. Chamber preps will start on 14 August.

7. SV-6 (SN-007)

The Two-Camera Assembly is in the build-up cycle in the clean room.

D. West Coast Project Office

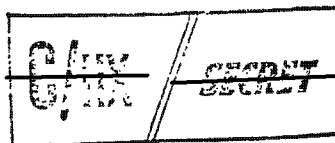
1. Installation of the new IBM 2701, data adapter unit, was completed. This allows a configuration of three serial data adapters (for IBM 2741 operation) in addition to the parallel data adapter (for SSTC operation).

2. Three IBM 2741 communications terminals were installed and are operational.

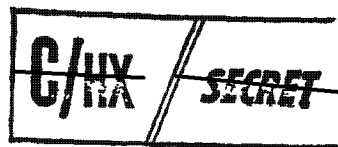
3. The Conversational Remote Job Entry (CRJE) option of OS/360 was generated. This system is currently operational and is in the initial test and user educational phase of operation.

4. Installation of a new power outlet was completed to allow connection to the IBM 2319 Disk Facility Unit to be delivered during the week of 16 August.

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III. Meetings Requiring Participation of Headquarters Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
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WESTOVER

17 August	CCB Meeting	Kohler
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18-19 Aug	1201 Critique	Kohler
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P.E.

18 August	Data Review	
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19-20 Aug	SN-006 Pre-Acceptance Test Review	
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**Acting Director
Photo Reconnaissance Systems**

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