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BYE-110468-71
Copy 10 of 14
27 August 1971

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 107

I. CORONA

A. Accomplishments

1. CR-15 (Mission 1115) completed payload installation on 26 August. Pre-ship negative brush checks and compatibility tests are in progress. The vehicle is continuing on schedule for planned launch on 8 September 1971.

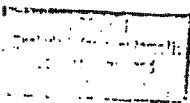
2. Mission 1115 software preparations continue with H-timer inputs scheduled for shipment to VAFB not later than 27 August. All software is in good shape to support Mission 1115.

B. Problems

No major problems.

C. Projected Status

1. CR-15. Flight preps.
2. CR-16. R-25 backup.
3. CR-8. Storage preps.



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II. HEXAGON

A. General

1. A meeting was held at PE on Wednesday [redacted]

[redacted]

the Project Office copies of a draft statement of work for such contract. Copies were also made available earlier to WCPO and TRW. These are currently under review. The current target date for finalizing the separate contract is 15 November.

2. A special mixed film roll consisting of SO-255 and 1414 was completed this week at Eastman Kodak for the E-Model tests at PE. The roll will be sent to PE next week.

B. Advanced Planning & Management Support Activities

The Project Office, with assistance from D&AD/OSP and TRW/SETS has defined a recommendable set of configurations to be studied for the advanced HEXAGON. These include:

- 1. A simpler/improved system to meet present design requirements and eliminate one launch/year.
- 2. A system with improved resolution, continuous coverage, and uniform data return.
- 3. A configuration which is only constrained by the mission requirements.

The recommended contractors are PE, Lockheed, Itek, and General Electric. The work will be completed and reviewed by the Project Office by 15 September.

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C. Engineering

A metering capstan and a film exit vestibule are being incorporated in the engineering model this week as a part of the color test program. The reason for the incorporation of the above is to provide an AVE configured test setup. It is hoped that the metering capstan will correct the drive servo error signal perturbations that were observed during last week's testing.

D. West Coast Project Office

1. A meeting was held at TRW/Sunnyvale with on 26 August to review the ECP submitted by PE for start photography early and constrain V_S command.
2. The additional IBM 2319 disk drives have been delivered and installed. They are currently being run with the 2314 drives for checkout and verification. The IBM 2701 has been installed and both the serial data adapter and parallel data adapters are operational.
3. The IBM 2741 terminals have been installed and are currently being used in conjunction with the conversational remote job entry software in version 21 of the 360 operating system. It is currently planned to make CRJE available for production on 7 September. At the present time the only known software bug is in the CRJE log off coding.
4. A wall, to meet security requirements, is to be installed between the Computer Facility office space and the computer hardware. Estimated completion date is 3 September.
5. The only known problem in version 20.1 of the 360 operating system that affects this installation is in the fortran-H compiler. The problem is in the block data function and has been circumvented until a Program Temporary Fix (PTF) is provided by IBM.

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6. Three new system software programs have been ordered from IBM. They are HASP-3, Time Sharing Option (TSO) and CALL 360 OS. It is currently planned to install HASP-3 as an addition to our production system and to conduct a study of TSO and CALL 360 OS.

E. Model Status

1. SDV-III (Development Model)

The in-track smear tests have been completed. The film has been inspected to confirm that the test was successfully completed. The film is being sent to Danbury for analysis in the auto-micro-D. Platen B was removed and is being sent to Danbury for alignment of the slit and shutter. RV EMI tests are scheduled to begin on 30 August.

2. SV-2 (MS SN-002)

The A-1 Chamber test is about complete. RV No. 4 will be removed from the vehicle and shipped to Mc Donnell Douglas as soon as the vehicle is out of the chamber.

3. SV-3 (MS SN-004)

Lockheed has completed the testing of the aft section and mating of the midsection began 26 August.

4. SV-4

a. Forward Section

No PE activity due to unavailability of test equipment for continued forward section kit R&I. Lockheed rework of pylon continues with release to PE expected on 27 August.

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b. Midsection (SN-005)

Retrofit SV 4-1 (cable rerouting) is now complete. Pneumatics testing is in process. Formal midsection R&I is scheduled to begin on 30 August.

5. SV-5 (MS SN-006)

The system has completed the 70°F vacuum acceptance test and is now in internal stabilizing at 47°F. Initial evaluation of the test data shows that 30% of the film has corona markings. Measurements made by the contractor show several of the markings to exceed specification. The film from the 70° vacuum acceptance test is currently at Westover AFB undergoing government evaluation.

6. SV-6 (MS SN-007)

Fine and coarse film path checkout has been completed. The on-orbit adjust box cabling is currently being done. TCA vibration is scheduled for next week following which the Two-Camera Assembly will be inserted into the midsection.

III. Meetings Requiring Participation of Headquarters Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>HQ</u>		
30-31 Aug	Contract Change Negotiations	[] & Staff
31 Aug - 1 Sept	Program Discussions with PE	Patterson, [] []
1-2 Sept	Block II Planning	[]

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PE

1 Sept ULE Glass Discussions

Elkonix (Boston)

1 Sept Review Fourier Transform Device

Westover AFB

30 Aug - SN-006 Acceptance Kohler,
2 Sept Film Review (2 Sept)

Vandenberg AFB

31 Aug Mission 1115 R-7 Meeting

San Diego Naval Base

30-31 Aug RV-3 Recovery Planning

DONALD W. PATTERSON
D/PRS/OSP

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Distribution:

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Cy 3 - D/PRS/OSP
Cy 4 - SA/IS/OSP
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Cy 9 - DC/D&AD/OSP
Cy 10 - RB/OSP
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Cy 12 - PRS chrono
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Cy 14 - WCPO

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