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~~CORONA~~

~~HEXAGON~~

HEX-10751-69
Copy 10 of 14
7 November 1969

MEMORANDUM FOR: Director of Special Projects

SUBJECT: Photo Reconnaissance Systems Report No. 13

I. CORONA

A. Accomplishments

1. CR-10 post-HIVOS evaluation indicates that the 1200 feet of SO-242 color film which passed through the aft looking instrument demonstrated the capability of the J-3 system to satisfactorily perform with SO-242. No pressure sweeps were made, but indications are that, while operating with the PMU, corona markings, if any, will not degrade the photography. Approximately 60 cycles of 3404 film displayed 2-pi corona markings. These markings occurred in the 10 to 36 micron pressure range. The necessity for a CR-10 HIVOS rerun has not yet been established.

2. Negotiations at Itek for CR-8 refurbishment were completed on 3 November 1969.

B. Problems

Evaluation of out-of-spec take-up flanges is continuing. A sufficient number of in-spec flanges are available at the AP to preclude any impact on system testing.

C. Projected Status

1. CR-9. Flight Preps - scheduled for launch 26 November 1969.
2. CR-10. Block Preps.
3. CR-11. HIVOS Preps.
4. CR-12. System Tests.
5. CR-13. Acceptance Test.

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II. HEXAGON

A. General

1. [redacted] and Mr. Fitzgerald will be in Sunnyvale on 10-11 November to review Lockheed's recommendations for the consolidation of the CORONA Program into Building 156. A complete layout and program plan will be ready for Mr. Patterson's review on the afternoon of 12 November. The consolidation of the computer requirements for CORONA and HEXAGON with the resultant savings is now being completed and will be reviewed with Mr. Crowley today. The computer program usage has now been reviewed by OCS, [redacted] and Mr. Dirks. A final report will be prepared during the week of 10 November.

2. WCPO move to Building 156 will be completed on 21 November, with phone availability the pacing item. All furniture has arrived and should be in place during the week of 10 November.

3. SSC/SETS and the Project Office met at Headquarters on 6 November to review two SSC proposals for "system improvements". These were for simplification or elimination of the supply caging device and for incorporation of a large capacity buffer, or "super looper". The proposals are notable in that the experimental and analytical approaches planned are more comprehensive than utilized on the basic program. A decision has not as yet been made on whether the proposals will be approved in whole, or in part.

4. Headquarters comments to the SSC Qualification Test Program (PM-1188-X) are being sent to P.E. today. SSC has been preparing a suggested replacement for the Qualification Test Requirements (Appendix F) of the revised performance specification. Similarly, SETS has been preparing an outline of significant factors for inclusion in this portion of the revised specification. A working meeting with SSC and SETS to derive the revised requirements will be held at Headquarters 19 November.

5. The HEXAGON Sensor Subsystem Operation Program (HSSOP) has been received and is undergoing intensive SSPO-wide review.

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HSSOP will describe the sensor to the operational software contractor and is considered a document of extreme importance to the successful operation of the sensor by the Air Force Satellite Test Center. Comments will be assembled and discussed at Sunnyvale on 18-19 November, and the final version for release to the SPO will then be drafted.

6. An SSTC Theory of Operation Course is being conducted at SBAC on 10-23 November 1969, primarily for P.E. West Coast field personnel, who are responsible for operating SSTC's 3, 4 and 5. Also, two OTD Systems Test engineers and a maximum of two SETS engineers will attend. Two AC Electronics engineers/instructors will conduct the course. The second part of the course, Maintenance and Operation of the SSTC, will be conducted by the same two AC Electronics instructors at OTD on 8-19 December 1969. Six P.E. West Coast field engineers and eight OTD Systems Test engineers will participate.

7. Arrangements were made with General King to establish a task group employing personnel from the Project Offices, Aerospace and SETS to examine areas for cost reduction and system improvement. Preliminary discussions have been carried out with Messrs. Ames and Mayhew of SETS with regard to their participation in this effort and it is planned to have them meet with their Aerospace counterparts on 10 November to outline the general areas in which they consider such efforts should be directed. It is expected later to meet with Col. Buzard and General King to lay out a program for the analysis and evaluation of all of the proposals as well as to include a time schedule for the completion of such studies.

B. Engineering Model

The high leak rate of the film path was not corrected and a meaningful film sticking test cannot be conducted. The model is in the ready room for a functional check with a planned installation date in Chamber "A" of 11 November and a test start date of 17 November.

C. Development Model

The Development Model has encountered additional major problems this week. The 2A1 platen servo boxes have to be returned to Radiation

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for rework. It is predicted that this will cause at least 11 days schedule slip. The Development Model #1 take-up at RCA has encountered problems and is running a week behind the 15 November delivery. If EMC tests are required, this will be an additional slip.

D. Flight Article No. 1

1. TCA assembly completion is minus 3 to a 2 December need. Both optical bar B and platen A are pacing.

2. Flight Article No. 1 requires the SBA simulator from the Development Model on 1 December. Further Development Model slips will impact on the flight article.

III. Administrative

Meetings Requiring Participation by Project Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>LMSC</u>		
12 Nov	Thermal Sub-Group Meeting	
12 Nov	HSSOP Informal Review with [] and TRW	
12-13 Nov	A&T IFWG	Burks
13 Nov	Operations IFWG	
13-14 Nov	RV IFWG	
13-14 Nov	Structural/Mechanical IFWG	
14 Nov	Schedule IFWG	

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<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>AP Facility</u>		
13 Nov	"C" Program Managers' Meeting	Patterson, <input type="text"/>
14 Nov	Review CR-9 Test Data	Burks
<u>SAMSO</u>		
13 Nov	TT&C IFWG	<input type="text"/>
<u>RADINC</u>		
12 Nov	Electronics CDR	<input type="text"/>
<u>SETS</u>		
10 Nov	HSSOP Review	<input type="text"/>

PMO/PRS/OSP

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 - OSP/RB
- cy 11 - OSP/PRS file
- cy 12 - OSP/PRS chrono
- cy 13 -
- cy 14 -

DDS&T/OSP/PRS/ X5725 (7 November 1969)

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