

HEX-10103-69
Copy 10 of 14
22 August 1969

MEMORANDUM FOR: Director of Special Projects

SUBJECT: Photo Reconnaissance Systems Report No. 2

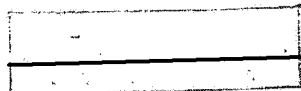
I. CORONA

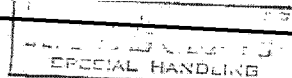
A. Accomplishments

1. Completed Preliminary Failure Analysis on CR-7 (Mission 1107).
2. Held meeting with SP-7 regarding prelaunch confidence tests with payload. Agreed to use payload simulator instead of actual payload system.
3. Completed circuit changes to DSR to correct for shift problems encountered during Mission 1106 and 1107.
4. Initiated software change to correct for double shift problem encountered when disable command sent.
5. Discussed C Program move from A/P to new facilities with Weiss, Buzard et al.

B. Problems

1. CR-9 - During HIVOS, V/H programmer start occurred 200 seconds later than programmed - problem under investigation.
2. CR-9 SLP conditioner failed to provide correct signal to SLP - result partial loss of data. Problem under investigation.





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C. Projected Status

1. J-46 in flight preps.
2. CR-8 preparing for requal.
3. CR-9 undergoing T/M mods on S/C servo. Post HIVOS mods to continue.
4. CR-10 in tracking tests.
5. CR-11 to complete acceptance testing and then start tracking tests with forebodies supplied from CR-8.
6. CR-12 completing mods to be able to start acceptance test.

II. HEXAGON

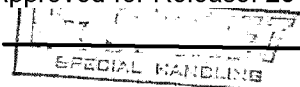
A. General

1. Eastman-Kodak has stated that it will require from six to eight months for facility conversion before any additional low RH film is manufacture This includes 40% film. No firm requirement for additional 40% film has been made at this time, pending evaluation of the first roll.

2. A Division Maintenance Section, under [redacted] has been created under the new Test Department, managed by [redacted] An "Emergency Maintenance Spares" provisioning conference has been set for early in September to review P.E.'s proposed Major Maintenance Program.

3. It appears that the 26,000 foot roll of film which was found to be bad in the engineering model is the fault of the film itself. Eastman-Kodak's early data from their own analysis of the returned film indicates some sort of dye problem.

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4. The Structural/Mechanical IFWG met at SBAC on 13, 14 August. The significant items were:

a) The Thermal ICD was signed. IRN's will be generated to define the active thermal control requirements and responsibilities and will be incorporated into the basic ICD.

b) The Alignment ICD was signed. This document is primarily a compilation of the various reference systems employed at different stages of assembly, but also included the SSC alignment requirements. SBAC has not yet generated an analysis of the ascent and on-orbit contributions to misalignment which SSC can agree to as correct. A subgroup meeting is to be held by 29 August to resolve differences on the extent of analysis required.

c) The SETS data on magnetic torques due to the motors appears to be acceptable to SBAC. Refined analysis of the raw data on motor and invar rods is to take place prior to the September IFWG.

5. SSC conducted acceptance tests of the TUTS and TU EM #3 at MWC on 15 August. Conditional acceptance with waivers will be granted by the Project Office for both pieces of equipment.

B. Engineering Model

The Engineering Model was removed from Chamber "B" on 20 August. The one camera assembly is being checked out with the velocity test box prior to going to Ready Room A. Following these tests, the bonnet and mylar seal will be installed on Optical Bar "A" and Optical Bar "B" will be installed. The current Engineering Model schedule allows one month pad in Chamber "A" prior to the "D" model need. A conflict of the "D" and "E" models at the EMI test stations is expected to be resolved by SSC by dropping "E" model EMI tests.

C. Development Model

Following the development model replan, the optical bars have been installed and mechanically aligned in the TCA frame. Completion of the TCA is now projected for 4 September against a 25 August milestone date, a slip of three days from last report.

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D. Flight Article #1

Optical Bar "A" has completed Chamber "C" and is now in the OOD test station for determining T number. Optical Bar "B" is in Chamber "C". Preliminary data on Optical Bar "A" from Chamber "C" data looks good. The Optical Bars are on schedule for OTD delivery on 2 and 7 September. Platen A is minus 5 days based on a 26 August delivery of box 2A2 (Metering Capstan Brushless Motor Electronics) from Radiation.

E. Flight Article #2

The optics set for Optical Bar "A" has completed bench test. Optics for Optical Bar "B" is in bench test.

III. Administrative

A. Personnel

1. [] will transfer to the West Coast Project Office reporting 22 September 1969. He will be in travel and annual leave status from 2 September through 19 September.

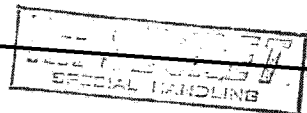
2. The following personnel will be on annual leave as indicated:

Mr. Patterson	25-29 August
[]	25-29 August
[]	25-27 August
[]	25-29 August
[]	25-29 August

B. Meetings Requiring Participation by Headquarters Personnel

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>WRIGHT-PATTERSON AIR FORCE BASE</u>		
Week of	Film Path Test Review	[]
1 Sept		

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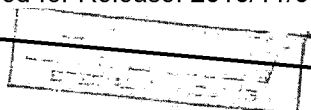


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<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>PERKIN-ELMER</u>		
26 Aug	Review of Catastrophic Interface Commands	<input type="text"/>
26 Aug	Engineering Model and Integrated Thermal Test Review	<input type="text"/>
26 Aug (PM)	SSPO Managers Meeting	<input type="text"/> Kohler <input type="text"/>
27 Aug	Monthly Technical Meeting	<input type="text"/> , Kohler Burks, <input type="text"/>
<u>HORIZONS (Cleveland, Ohio)</u>		
26 Aug	Contract Negotiations	Kohler
<u>SETS</u>		
26 Aug	Servo FMECA Review	<input type="text"/>
<u>NPIC</u>		
3-4 Sept	1107 Pet Meeting	<input type="text"/> Burks
5 Sept	NPIC Tour	Kohler, <input type="text"/> <input type="text"/>
<u>HEADQUARTERS</u>		
26 Aug (AM)	Discuss Status of "C" Program at Itel	Crowley, <input type="text"/> <input type="text"/> Burks, <input type="text"/>

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<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>HEADQUARTERS</u> (continued)		
28 Aug	Monthly Schedule Review	Staff
4 Sept	West Coast Computer Requirements Review	<input type="text"/> Pattersor <input type="text"/>
<u>P.E. AEROSPACE</u>		
27 Aug	Manufacturing and Test Review	<input type="text"/>
<u>BOLLER AND CHIVENS</u>		
28 Aug	Manufacturing and Reliability Review	<input type="text"/>

PMO/PRS/OSP

Distribution:

cy 1 - D/OSP
 cy 2 - DD/OSP
 cy 3 - D/PRS/OSP
 cy 4 - C/D&AD/OSP
 cy 5 - EO/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/H File
 cy 12 - OSP/H Chrono
 cy 13 -
 cy 14 -

DD/S&T/OSP/PRS/JWL:ncc/X5725 (22 August 1969)

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