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Copy 10 of 14
2 January 1970

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 21

I. CORONAA. Accomplishments

Mission 1108 operational phase was concluded last week. The REAGIN 31 report on 1108-2 indicates fair quality photography from the forward looking camera and good quality from the aft. An MIP rating of 100 was assigned. Also, the REAGIN 31 stated that the best ground resolution of the SO-242 appears comparable to the best color provided by Mission 1106 (SO-121). This preliminary assessment is with a duplicate and a comparison of the original positive of the two missions may show SO-242 better, even though the duplicates compare equally. Because of the present limitation of the duping material, the NRO has been requested (Headquarters message 5296) to provide the 1108 PET with as much SO-242 original positive from Mission 1108 as possible.

B. Problems

1. "Dr. A" data (CR-11) Meeting at Headquarters on 5 January.
2. Switch programmer on CR-9. Analysis continuing.

C. Projected Status

1. CR-9 (Mission 1108). PET at NPIC on 13 and 14 January.
2. CR-10. Chamber on 5 January.
3. CR-11. Block test beginning 5 January.

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SUBJECT: Photo Reconnaissance Systems Report No. 21

4. CR-12. Block preps.
5. CR-13. Tracking test.
6. QR-2. Acceptance.

II. HEXAGON

A. General

The draft RFQ for Follow-on Units 7 through 12 is in final typing as a result of the 30 December meeting involving the Project Office, SETS, and Contracts Branch/OSP. Contracts Branch is preparing the final version of the pricing and fixed price incentive features for Attachment II (Proposal Guide). Copies of draft versions of Contract End Item Specifications for the Mid-Section Assembly, Take-ups, and Forward Film Path Elements will accompany the RFQ.

B. Engineering Model

Initial EM tests were completed on 23 December, and the EM itself was removed from Chamber A on 29 December. Installation of the verification packages on the two Chamber A collimators will begin this week-end. Both EM cameras, operating in the coarse film transport mode only, have been repaired and will reenter Chamber A this week-end, also, to begin checkout, concurrent with the verification package installation, prior to obtaining additional thermal data on such areas as settling time resulting from launch transient effects.

C. Development Model

Progress

The supply was installed and checked out in Ready Room A. Ready Room A cabling has been checked. Pneumatics were installed and checked out. EM #1 take-up was installed in a dolly and will now serve as the Ready Room A forward section simulator.

BYE-7005-70
Page Two

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~~HEXAGON~~ ~~CORONA~~**SUBJECT: Photo Reconnaissance Systems Report No. 21**Projected Activities

P. E. will go to three shifts on 5 January 1970. Both film paths will be run, using AVE hardware, during the next week. The LSFS, film marking system, thermal data acquisition system (DDAS/ISCCU), and FM multiplexers will be checked for the first time in the next two weeks.

D. Flight Article #1Progress

The "B-side" coarse film path, using take-up and supply simulators, has been checked. Film drives went through acceptance vibration with only minor workmanship anomalies. The PCM master multiplexer used with the EM has been reformatted and is ready to start Ready Room B testing. The major problem in starting Ready Room B tests has been the incompleteness of parts for the two-camera assembly.

Projected Activities

The sequencer should be received on 9 January 1970. The MFA, PCM mux, and SSTC telemetry data system will be integrated during the next week.

III. Administrative**A. Meetings Requiring Participation of Headquarters Personnel**

<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>HQS</u>		
5 Jan	Results of CR-11 HIVOS UTB Tests	Patterson, <input type="text"/> Kohler, Burks
8 Jan	HEXAGON SS Performance Spec Review	<input type="text"/> Kohler

BYE-7005-70
Page Three

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<u>Date</u>	<u>Subject</u>	<u>Attendees</u>
<u>Hqs.</u>		
8 Jan	Near-Real-Time HEXAGON Capabilities, Generation III Sequencer, Brush Motors, and Regulator Proposals	Patterson, [redacted] [redacted] Burks
<u>P. E.</u>		
5 Jan (AM)	McLucas, Naka Briefing	McMahon, [redacted] [redacted]
7 Jan (AM)	Bi-Weekly Schedule Review	[redacted]
7 Jan (PM)	OTD Motor Production Review	[redacted]
<u>WCPO</u>		
5 Jan	SCF TM Data Rate Capability	[redacted]
<u>SAMSO</u>		
5 and 7 Jan	"TBAT" and "TBALL" Software Software CDR's	[redacted]
7 Jan	Color Task Force Discussions	R. Kohler
<u>LMSC</u>		
7 Jan	Informal Field Ops Review	[redacted]

BYE-7005-70
Page Four~~HEXAGON~~~~CORONA~~HANDLE VIA BYEMAN
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~~SECRET~~~~CORONA~~~~HEXAGON~~**SUBJECT: Photo Reconnaissance Systems Report No. 21**DateSubjectAttendeesNRO

5 Jan (PM) Naka Committee Meeting

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Page FiveHANDLE VIA EYEMAN
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