FORM 12-67 2820

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FILE INFO

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17 FEB 71 21 20Z

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IN 50048

~~T O P S E C R E T~~ 172055Z FEB 71 CITE [ ] 0431.

IMMEDIATE WAHOO, PILOT, [ ] INFO PRIORITY [ ] MANOR, [ ],

SOLAR, PLUM, [ ]

REAGIN - 45

A. 1115

B. 51 SECONDS AFTER LIFTOFF CONFIRMED SELF-DESTRUCT. DETAILS UNKNOWN AT THIS TIME.

C. 1 MILE DUE SOUTH OF LAUNCH PAD.

D. SEARCH IS UNDERWAY; AGENA AND PAYLOAD STATUS UNKNOWN.

E. UNKNOWN

~~T O P S E C R E T~~

BT

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IN 59924

~~S E C R E T~~ 170025Z FEB 71 CITE PLUM 0263.

MAJORITY WAHOO INFO PRIORITY PILOT, CHARGE

NEAGIN-A

REF A CHARGE 0663 (13 FEB 70)

B. TELECON, 16 FEB 71, [redacted] (WAHOO)

[redacted]

FOLLOWING IS PREVIOUSLY ESTABLISHED ANTISATELLITE CONTINGENCY PLAN DISCUSSED IN REF B. PLAN HAS BEEN UPDATED FOR MISSION 1113. DMD FIRING TABLE WILL FOLLOW BY SEPARATE DATA TRANSMISSION.

1. RANGE OF TIMES BETWEEN ANTISATELLITE LAUNCH AND NEXT AVAILABLE CORONA DMD FIRINGS ARE BEST DETERMINED ON INDIVIDUAL MISSION BASIS.

2. [redacted] DMD FIRING SEQUENCES ARE PUNCHED ON THE H-TIMER TAPE PRIOR TO LAUNCH. THIS PUNCHING DETERMINES THE LOCATION AS WELL AS MODE

12-67 2820 (44)

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ACTION	1		6		11		16	
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(BOOST OR DEBOOST) OF FIRINGS SELECTABLE DURING FLIGHT. THE CORONA SYSTEM HAS NO CAPABILITY TO FIRE AT OTHER THAN THESE PRE-PUNCHED LOCATIONS. LOCATIONS ARE CHOSEN FOR MAINTENANCE OF ORBIT SHAPE AND COVERAGE PATTERN. NO ATTEMPT IS BEING MADE TO PLACE FIRINGS IN SUCH MANNER TO PROVIDE AN EVASION CAPABILITY.

B. DMU FIRINGS ARE ENABLED BY TRANSMISSION OF A SINGLE REAL-TIME-COMMAND AT ANY TIME DURING A COMMAND STATION ACQUISITION. IN AN EMERGENCY SITUATION, A CALL TO STC BY STATION ACQUISITION TIME SHOULD ALLOW SUFFICIENT TIME TO ASSURE PROPER TRANSMISSION OF THIS COMMAND. IT SHOULD BE NOTED THAT THIS COMMAND MERELY ENABLES THE FIRING AND DOES NOT FIRE THE ROCKET. ONCE THE FIRING IS ENABLED A ROCKET WILL BE FIRED AT THE NEXT DMU SEQUENCE ENCOUNTERED ON THE H-TIMER TAPE.

C. A SINGLE DMU FIRING WILL NOT PREVENT EITHER CONTINUED ACCEPTABLE OPERATION OF THE CAMERA SYSTEM OR RECOVERY ON NEXT DAYLIGHT PASS OF HAWAIIAN AREA. FIRINGS WITHIN SEVERAL REVS PRIOR TO RECOVERY MAY RESULT IN INCREASED ERROR IN IMPACT PREDICTION AND REDUCED POSSIBILITY OF AIR RECOVERY. IN EXTREME EMERGENCIES THE POSSIBILITY OF A NIGHT RECOVERY OVER THE HAWAIIAN AREA SHOULD BE CONSIDERED ALSO.

D. A VEHICLE SPATIAL LOCATION AT SOME FIXED TIME AFTER A FIRING WILL VARY FROM THE NO-FIRING (UNPERTURBED) LOCATION ASSOCIATED WITH THE SAME

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ACTION	1		6		11		16	
	2		7		12		17	
	3		8		13		18	
	4		9		14		19	
	5		10		15		20	

PAGE 3 PLUM 0265 ~~T O P S E C R E T~~

TIME APPROXIMATELY AS FOLLOWS:

1. CROSS-TRACK LOCATION WILL DIVERGE FROM NOMINAL AT THE RATE OF
[illegible] MI. PER REV FOR 3000 LB-SEC ROCKETS.

. ALONG-TRACK LOCATION WILL DIVERGE FROM NOMINAL AT THE RATE OF
[illegible] I. PER REV FOR 3000 LB-SEC ROCKETS.

. ALTITUDE WILL CHANGE FROM 0 TO 14 N.MI. DEPENDENT ON FIRING
LOCATION FOR 3000 LB-SEC ROCKETS.

NOTE THAT 3000 LB-SEC ROCKETS WILL PROVIDE TWO-THIRDS OF SPATIAL
LOCATION VARIATIONS SHOWN ABOVE. ALSO, ALONG-TRACK DIVERGENCE WILL
HAVE NO EFFECT ON CAMERA OPERATIONS COVERAGE SINCE THE H-TIMER
IS ADJUSTED TO PROVIDE LATITUDE-SYNCHRONISM BETWEEN NOMINAL AND
ACTUAL ORBITS.

. THE FOLLOWING PROCEDURE IS RECOMMENDED FOR DETERMINATION OF TIME
[illegible] AND EVASIVE MANEUVER CAPABILITIES BETWEEN ANTISATELLITE
[illegible] AND DMU FIRINGS FOR MISSION 1113:

1. DETERMINE LIKELY LAUNCH TIME OF ANTISATELLITE IN
[illegible] TO CORONA ORBIT.

. COMPARE LAUNCH TIME WITH LISTING OF COMMAND STATION
[illegible] TIMES PROVIDED DAILY IN REAGIN-200 REPORT.

. DETERMINE TIME BETWEEN COMMAND STATION ACQUISITION AND

12-67 2820

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ACTION	1		6		11		16	
	2		7		12		17	
	3		8		13		18	
	4		9		14		19	
	5		10		15		20	

PAGE 4 PLUM 0268 ~~T O P S E C R E T~~

NEXT AVAILABLE DMU FIRING FROM TABLE DESCRIBED BELOW IN PARA. 6 AND PROVIDED BY SEPARATE DATA TRANSMISSION.

4. DETERMINE TOTAL NUMBER OF REVS BETWEEN NEXT AVAILABLE DMU FIRING AND PROBABLE ANTISATELLITE INTERCEPT POINT. (FRACTIONAL PORTIONS OF REVS SHOULD BE INCLUDED)

5. RANGE OF TIMES REQUESTED IN REF. A WILL BE THE SUMMATION OF TIMES DETERMINED BY STEPS 2 AND 3 IN ABOVE PROCEDURE.

6. MINIMUM EVASIVE MANEUVER CAPABILITY (THE CHANGE IN VEHICLE SPATIAL LOCATION AS A RESULT OF THE FIRING) IS OBTAINED BY MULTIPLYING THE NUMBER OF REVS OBTAINED IN STEP 4 TIMES 60 N.MI. PER REV (3000 LB-SEC DMU) OR TIMES 40 N.MI. PER REV (2000 LB-SEC DMU) DEPENDENT UPON SIZE OF THE DMU FIRING. (NOTE THAT THIS COMPUTATION IS SIMPLIFIED TO INCLUDE ONLY ALONG-TRACK DIVERGENCE SINCE THIS IS THE MOST PREDOMINANT FIRING EFFECT). SINCE [illegible] HAS ONLY 5000 LB-SEC DMU ROCKETS ONLY 60 N.MI. PER REV COMPUTATION SHOULD BE USED.

7. TABLE OF [illegible] DMU FIRINGS/CONTROL IN THE AREA OF PRIMARY INTEREST WILL BE PROVIDED WAHOO BY SEPARATE DATA TRANSMISSION. THIS TABLE WILL INCLUDE ONLY THE SIX REVS PER DAY

FORM 12-67 2820

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ACTION	1		6		11		16	
	2		7		12		17	
	3		8		13		18	
	4		9		14		19	
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PAGE 5 PLUM 0268 ~~TOPSECRET~~

(THREE ASCENDING/THREE DESCENDING) WHICH PASS CLOSEST TO THE TYURATAM LOCATION. (NOTE THAT FOR MISSION 1113 ON ASCENDING PASSES THE TYURATAM LOCATION LIES APPROXIMATELY 0.13 REV FROM THE START OF THE REV WHILE ON DESCENDING PASSES THIS LOCATION LIES APPROXIMATELY 0.37 REV FROM THE START).

A BRIEF DESCRIPTION OF THE DATA TO BE PROVIDED IN THIS TABLE IS AS FOLLOWS:

1. ACQUISITION STATION AT WHICH FIRING IS ENABLED.
2. END FIRING REV AND LATITUDE FOR ANY FIRINGS OCCURRING WITHIN THE STATION ACQUISITION.
3. END FIRING REV, LATITUDE, AND TIME FROM ENABLE STATION FOR THE FIRST END FIRING OCCURRING BETWEEN THIS ENABLE STATION AND THE NEXT ACQUISITION.

AN EXAMPLE OF THE USE OF THIS DATA IS AS FOLLOWS:

1. END FIRING DATA FROM TABLE SHOWS BY ENABLING AT REV 7 POGO END WILL FIRE AT REV 7.75, LATITUDE 48S, APPROXIMATELY 45 MINUTES AFTER POGO ACQUISITION.
2. FOR THIS EXAMPLE ASSUME VEHICLE IS 20 MINUTES PRIOR TO 7 POGO ACQUISITION WITH ANTICIPATED ANTISATELLITE INTERCEPT AT REV 8 AT TYURATAM LOCATION (REV 8.37).

Form 12-67 2820

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PAGE 6 PLUM 0268 ~~T O P S E C R E T~~

3. TIME RANGE TO FIRING WOULD BE 68 MINUTES (20 MIN. TO STATION PLUS 43 MIN. TO FIRING).

4. THERE ARE 7.62 REVS BETWEEN FIRING POINT AND PROBABLE INTERCEPT POINT (REV 8.37 MINUS REV 7.75). MINIMUM EVASIVE MANEUVER WOULD BE 37.2 N.MI. FOR 3000 LB-SEC ROCKET (7.62 REVS TIMES 63 N.MI. PER REV) AND 24.8 N.MI. FOR 2000 LB-SEC ROCKET.

5. REFERENCE TO A SPECIFIC CASE WAS, IN OUR OPINION, THE BEST WAY TO ASSIST WAHOO IN DEVELOPING AN APPROACH TO CONTINGENCY PLANNING. IF A FIRM CONTINGENCY PLAN IS DESIRED FOR THE REMAINDER OF THE CORONA PROGRAM, IT IS RECOMMENDED THAT THE INTERESTED PARTIES MEET TO DEFINE THE NATURE OF THE THREAT, DISCUSS SYSTEM CAPABILITIES, AND DEVELOP SPECIFIC REQUIREMENTS AGAINST WHICH THE PLAN CAN BE DEVELOPED.

~~T O P S E C R E T~~

FORM 2820 12-67

CLASSIFIED MESSAGE

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REPRODUCTION PROHIBITED 18 FEB 71 03 47 Z

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IN: 60141

~~T O P S E C R E T~~ 180142Z FEB 71 CITE PLUM 0275.

H FILE NO.

C-FILE

CHARGE, PILOT

CHARGE ATTENTION

PILOT ATTN D. PATTERSON

THIS MSG RETRANSMITTED BY PLUM REQUEST

~~T O P S E C R E T~~ 162249Z FEB 71 CITE WAHCO 4216.

IMMEDIATE PLUM INFO

PLUM FOR

A. 1113

1. THE INFO WE NEED ON A DAILY, OR LESS FREQUENT, BASIS DURING THE MSN IS:

(A) THE TIME TYURATAM (46.5N/63.5E) ROTATES THRU THE PLANE OF OUR ORBIT. ADD FIFTEEN MINUTES EITHER SIDE OF THIS TIME TO DEFINE A 30-MINUTE HOSTILE LAUNCH WINDOW DURING WHICH THE RUSSIANS COULD LAUNCH AN SL-11 MANEUVERABLE SATELLITE. EXAMPLE: IT WINDOW 17143PZ TO 17158PZ. THE ONLY ATTACK THIS TECHNIQUE WILL INTERFERE WITH IS AN INTERCEPT ON THE SL-11S

(b)(1)
(b)(3)

FORM 2820
12-67

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	2		7		12		17	
	3		8		13		18	
	4		9		14		19	
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PAGE 2 WAHOO 4213 ~~T O P S E C R E T~~

SECOND REV AS HE IS PASSING OVER EASTERN EUROPE.

(B) THE STATION ACQUISITION TIMES AND STATION NAMES BETWEEN THE PREVIOUSLY DEFINED LAUNCH WINDOW AND THE PROSPECTIVE INTERCEPT APPROX TWO REVS LATER.

EXAMPLE:

171[illegible]Z KODI

171730Z POGP

171745Z KODI

TO FACILITATE GETTING STARTED, WE CAN TAKE THESE TIMES FROM THE 4-20Ø THIS MISSION IF YOU WANT.

(C) THE TIME, OR TIMES, YOU RECOMMEND THE DMV(S) BE FIRED TO BEST AVOID THE SL-11 INTERCEPTOR. SOLUTION TO THIS WAS A FIRING JUST SOUTH OF THE RUSSIAN LANDMASS (AND THUS OUT OF SIGHT OF THEIR TRACKING RADARS), APPROX 3ØØ DEG OF ROTATION PRIOR TO THE EXPECTED INTERCEPT OVER EASTERN EUROPE. THEIR FIRING WAS ENOUGH TO CAUSE A FIFTY NM DIFFERENCE IN THE PREVIOUSLY PREDICTED LOCATION OF OUR SATELLITE AT THE TIME OF PREDICTED INTERCEPT.

2. THE PRECEEDING THREE ITEMS OF INFORMATION WILL BE USED

12-67

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	2		7		12		17	
	3		8		13		18	
	4		9		14		19	
	5		10		15		20	

PAGE 3 WAHOO 4213 ~~T O P S E C R E T~~

AS FOLLOWS:

(A) WINDOW DEFINITION. TELLS US AND DEFSMAC WHEN TO WATCH FOR POSSIBLY HOSTILE SL-11 LAUNCHES.

(B) STATION AQ. TELLS US HOW FAST WE MUST MAKE/GET DECISION TO FIRE AVIODANCE DMUS.

(C) DMU FIRING TIME(S). LET ALL INVOLVED KNOW WHEN TO WATCH FOR EFFECTS OF FIRING.

3. RECOGNIZING THIS IS A BIT SKETCHY, WE ARE STANDING-BY FOR QUESTIONS.

~~T O P S E C R E T~~

BT

~~C/HX~~ // ~~SECRET~~

BYE-107756-71
Copy 10 of 14
19 February 1971

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 80

I. CORONA

A. Accomplishments

1. CR-13 (Mission 1113) was launched on 17 February 1971 at 2001Z.

2. Software is being prepared to support the anti-satellite-satellite contingency plan requested by the SOC. This software will prepare a report of possible antisatellite launch times and possible evasive maneuvers using the DMU system.

B. Problems

CR-13's booster main engine appeared to malfunction followed by a self-destruct at approximately lift-off plus 30 seconds. An Air Force Board of Inquiry is in progress at VAFB.

C. Projected Status

1. CR-14. Launch preps.

2. CR-15. Back-up preps.

3. CR-16. Block preps.

4. CR-8. Subsystem acceptance.

GROUP 1
Excluded from automatic downgrading and declassification

~~C/HX~~ // ~~SECRET~~

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

SUBJECT: Photo Reconnaissance Systems Report No. 80

II. HEXAGON

A. General

1. WCPO analysis of the SV-1 orbit study case indicates significant gaps in coverage during the first two buckets and recommended to SPO and STC a period change that would improve coverage. The Operations IFWG has "approved" the study case for SV-1; however, [redacted] plans to rerun some orbit cases to see if improvement is feasible in time for SV-1.

2. The planning for on-orbit contingencies relating to SS operations is proceeding in a satisfactory manner.

3. TRW personnel successfully checked out the initial "HOPE" versions on the WCPO computer. Copies of the program decks were left with WCPO personnel to allow "HOPE" support of A-2 Chamber testing on SV-1.

3. Recent film tracking difficulties at both PE and LMSC resulted in a meeting at PE with EK on 18 February. The data presented by PE gives some correlation between takeup mis-tracking and film taper. Whether this is a new problem caused by an increase in film taper or an old one which had been masked by more severe film tracking problems is not determinable. EK agreed to undertake two actions to alleviate and/or explain this anomaly: (1) data on several Mylar base runs will be compared to determine if the taper has changed recently, (2) samples from the head and tail of segments of film will be measured for taper, and this information will be used to determine maximum lengths between splices, with reversals of taper direction between splices, in constructing two new supplies for the flight load for SV-1.

SUBJECT: Photo Reconnaissance Systems Report No. 80

4. A spares data package technical certification was held at PE on the uncage command and control box (8A1), the remainder of the auxiliary takeup, the takeup rollers, and the power bus module. The packages were satisfactory except for two open items on the 8A1--an integrated circuit test report anomaly and the lack of system reverification requirements for this box.

5. PE's film core design for the systems 7 through 12 is incompatible with the Kodak film spooling equipment. Kodak met with PE on 18 February to discuss this matter. The spooling machine mandril is affected, and EK is now assessing the problem and will determine whether new ones will be required or if the existing ones can be modified.

B. Model Status

1. Development Model (SDV-III)

During this reporting period, the AVE system umbilical drop tests were completed. The phase I VTS compatibility test has also been successfully completed. Phase II SCF-VTS compatibility test has been initiated with the midsection portion beginning on 18 February.

2. SV-1 (SN-003)

SV-1 is undergoing A-2 Chamber tests. The in-air portion of this activity has been completed, and data evaluation began on 18 February.

3. SV-2 (SN-002)

a. Forward Section

Buildup activity has halted awaiting the receipt of builder roller retrofit parts.

SUBJECT: Photo Reconnaissance Systems Report No. 80

Functional testing of the system will resume immediately after the accomplishment of these mods. At present RV/TUA's have been installed in F/S Bays 4, 3, and 2. TUA S/N 017 scheduled for Bay 1 is undergoing R&I.

b. Midsection

Chamber "A" acceptance tests at 70°F are being run today. The chamber will be repressurized, and the film removed tomorrow (20 February).

4. SV-3 (SN-004)

a. The 2A3 box test program has been completed and the system now has its final complement of electronics of the proper configuration except for the 16A1 (due in on 23 February) which is not critical for the MFN 3.09 tests. MFN 3.09 is scheduled to begin 23 February.

b. The simulated takeup has been replaced with the EM-1 takeup.

c. The "A" side has successfully completed the MFN 3.05 test matrix. The "B" side has experienced a film shift problem which seems to be velocity sensitive. The looper is suspect (at the housing attachment), and this will be verified and hopefully corrected by 20 February.

d. A special engineering test will be conducted on 20 February with the crossover to determine the effect of adding rollers to the crossover/film drive interface.

C/NX // SECRET

SUBJECT: Photo Reconnaissance Systems Report No. 80

III. Meetings Requiring Participation of Headquarters Personnel

Date	Subject	Attendees
HQ		
24-26 Feb	Follow-on Negotiations	[redacted]
25 Feb	Qual Status	Staff, SETS
PE		
23 Feb	Electronic Qual Review	[redacted]
23 Feb	Performance Review	Patterson Kohler, [redacted]
Westover AFB		
22-26 Feb	SN-002 Performance Data Review	[redacted] Kohler, [redacted]
WCPO		
23-25 Feb	A-2 Test Data Review	[redacted]

DONALD W. PATTERSON
D/PRS/OSP

[redacted]

C/NIX SECRET

SUBJECT: Photo Reconnaissance Systems Report No. 80

Distribution:
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Cy 10 - RB/OSP
Cy 11 - PRS/file
Cy 12 - PRS/chrono
Cy 13 - NEPO
Cy 14 - WCPO

BYE-107829-71
Cy 10 of 14
26 February 1971

MEMORANDUM FOR: Director of Special Projects

SUBJECT : Photo Reconnaissance Systems Report No. 81

I. CORONA

A. Accomplishments

1. CR-14 was pulled up for Mission 1114 launch on 24 March 1971, or 31 March if a P-11 payload is desired.

2. A study of the six-pack configuration has begun. The goal is to complete the study (integrated with vehicle considerations) by 26 March 1971.

B. Problems

No major problems.

C. Projected Status

1. CR-14. At launch preps.

2. CR-15. Pre-back-up preps.

3. CR-16. Block preps.

4. CR-8. Integrated assembly.

SUBJECT: Photo Reconnaissance Systems Report No. 81

II. HEXAGON

A. General

1. SETS personnel have been at the WCPO during most of this week to prepare the "HOPE" Report (REBOUND-830) for the A-2 Chamber test of SV-1. No problems are expected, and the report will be provided to users on 26 February.

2. Film deliveries this week:

2 - 110,000 ft. rolls Type 1414 to PE

1 - 26,000 ft. roll SO-255 to PE

2 - 10,000 ft. rolls SO-255 to PE

4 - 10,000 ft. rolls Type 1414 to RCA

3. A Qualification Program Status Review was held at Headquarters with SETS participation. The Headquarters position was derived and PE is being advised of the remaining open items and action items which must be completed before the system is considered qualified.

B. Model Status

1. Development Model (SDV-III)

The SCF/VTS Phase 2 compatibility test was completed. EMI test run No. 1 was successfully accomplished and run No. 2 has begun.

2. SV-1 (SN-003)

SV-1 is undergoing A-2 Chamber tests now scheduled for completion on 27 February. No real-time

SUBJECT: Photo Reconnaissance Systems Report No. 81

anomalies have been observed. Recovered film will be sent to EK for processing on 28 February.

3. SV-2 (SN-002)

a. Forward Section

The forward section buildup continues at a slow pace while awaiting the corrected procedures for builder-roller retrofit. Activities since the last reporting period involved roller alignment verifications and articulator mods.

b. Midsection

The 70°F. and 49°F. Chamber "A" tests have been completed. The 93°F. tests are scheduled for 28 February. Shipping preps are scheduled to be completed on 5 March.

4. SV-3 (SN-004)

Midsection

The new crossover configuration is being tested in two steps. The first test with an added cluster roller on the return side of the film drive did not show improved tracking. A second test with a cluster roller added on the output of the crossover on the looper side is now underway. This and other day-to-day problems have delayed the start of MFN 3.09 on SN-004. The crossover testing is scheduled for completion 27 February, and MFN 3.09 should commence Tuesday 2 March.

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CONTROL SYSTEM ONLY

SUBJECT: Photo Reconnaissance Systems Report No. 81

Since the supply (No. 5004) has an MRB against the bellows, it will be pulled out of the system, probably after the first 70° in-air run and replaced with supply No. 5002. Supply No. 5004 will be reworked for a later model. The schedule now projects a 4/13 ship date.

5. SV-4 (SN-005)

Midsection

The OB has been installed on the "B" side and tests are being conducted. There is a phasing problem with the platen being resolved. Testing of the "B" side will continue and should be completed by 10 March. The "A" side OB is scheduled to be installed by 12 March with a complete TCA buildup by 15 March.

III. Meetings Requiring Participation of Headquarters Personnel

Date	Subject	Attendees
PE		
1 Mar.	SN-004 Readiness Review	
3 Mar. (tent)	Film Taper Problem	
RCA		
4 Mar.	P4-3 Takeup Buyoff	

C/HX SECRET

SUBJECT: Photo Reconnaissance Systems Report No. 81

Date	Subject	Attendees
Westover AFB		
1 - 5 Mar.	SN-002 and SN-003 Data Evaluation	Burke [redacted] Kohler [redacted] (5th only)
EK		
4 Mar.	Film Scheduling and Core Data Review	[redacted]
HQ		
2 Mar.	Q.A. Manual Revision Working Session	[redacted]

DONALD W. PATTERSON
D/PRS/OSP

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Cy 4 - EO/OSP
Cy 5 - SA/IS/OSP
Cy 6 - CS/OSP
Cy 7 - C/PAD/OSP
Cy 8 - C/SB/OSP
Cy 9 - C/SS/OSP
Cy 10- RB/OSP
Cy 11 - PRS/File
Cy 12- PRS/Chrono
Cy 13- NEPO
Cy 14- WCPO

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ACTION	1		6		11		16	
	2		7		12		17	
	3		8		13		18	
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IN 61743

~~T O P S E C R E T~~ 261615Z FEB 71 CITE WAHOO 4246.

PRIORITY CHARGE INFO PRIORITY [redacted] PILOT, PLUM, WHIS.

CORONA GAMBIT EAPFOP

FOR GEN KING FROM DR NAKA

EFFL CHARGE 1842

THE DNRO IN COSULTATION WITH THE DEPSECDEF AND DCI HAS DECIDED TO LAUNCH CORONA 1114 ON 24 MARCH 71. EVERY REASONABLE EFFORT SHOULD BE TAKEN TO RETAIN THE OPTION TO LAUNCH ARROYO ON THIS MISSION. HOWEVER, IT MUST BE UNDERSTOOD THAT THE LAUNCH WILL NOT BE DELAYED FOR THE ARROYO SYSTEM. AS IN THE PAST, RELIABILITY SHOULD DETERMINE THE ACTUAL LAUNCH DATE OF MSN 1114.

~~T O P S E C R E T~~

(b)(1)
(b)(3)