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COB-1007

Copy 4 of 4

6 December 1960

**MEMORANDUM FOR** : Acting Deputy Director (Plans)  
**THROUGH** : Acting Chief, Development Projects Division, DD/P  
**SUBJECT** : Discoverer Meeting with Dr. Charyk

1. Dr. Charyk, Bob Bailey, and I discussed the Discoverer program on 5 December. This was the follow-on to the earlier session some three weeks ago when Dr. Charyk raised the questions of the bio and AEGIS programs.

2. In brief, AEGIS has been expanded to six, with engineering shots in January and February and operational shots in June, July, August, and September. COMNA shots recommence in February and extend into October. Two Soviet shots are added in November and December. The one bio shot falls in December of 1961.

3. Joe Charyk is convening a group of three or four cleared people to work out a FRO plan utilizing AEGIS as cover for the program. Joe professed not to involve Ted Anderson initially, but will review the matter with us when the staff work is done in about two weeks. I understand that this kind of cover plan will likely require approval at the White House level.

4. Charyk has also been discussing an elint development aimed against Sary Shagan with AIL people. He is proposing to have LMD subcontract to AIL to construct three or four equipments to go in the Agma vehicles as did the Fubini gear.

5. I expect to review all of these items again with Charyk in about two weeks after discussions with our own people concerned.

*J. P. Kiefer*  
**JOHN P. KIEFER**  
Chief, Technical Analysis Staff  
DDP-22/P

CH/TAS/DPD/EPKIEFER:njw  
6 December 1960  
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2 - A/CH/DPD  
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10 December 1960

MEMORANDUM FOR DEPUTY DIRECTOR (PLANS), CIA

SUBJECT: Revised DISCOVERER Schedule

1. This memorandum confirms the revision to the DISCOVERER program which has resulted from recent review of the several interests that are concerned. The approved schedule is attached hereto.

2. Specific comments on the revised program follow:

a. There has been no change in the CORONA schedule.

b. The ARGON schedule has been increased from four to six flights. This increase will not require purchase of additional payloads, as two previously unscheduled flyable payloads are available. There will be a modest amount of funds required to cover added costs such as installation, check-out, reduction of data, etc. These added costs will be taken from funds presently available to the DISCOVERER program. One of these two additional ARGON flights has been scheduled in lieu of the BIO shot (#1025); the other has been scheduled on a previously unassigned DISCOVERER.

c. The BIO flight (vehicle #1025) is not specifically scheduled at the present time, pending resolution of discussions which are continuing. Until these discussions are resolved and specific decisions announced, it is imperative that no statement be made which reveals or infers that #1025 is either scheduled at an early specific date, or postponed indefinitely.

d. The last two shots in the revised schedule are ferret payloads which are presently included in the SAMOS program. It is planned that much of the previously scheduled ferret work in SAMOS will be converted to THOR/AGENA vehicles, of which these will be the first two shots. Pending further instructions, no information should be released on the ferret schedule.

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Page 1 of 3 pages

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2. In conformance with our recent discussions we are now preparing a new **DISCOVERER** cover plan which will be based primarily upon research and development of a geodetic satellite. This plan will be presented to you for coordination and discussion at an early date.

3. Please take the necessary action to implement the attached schedule and to notify the proper personnel. I wish to be notified promptly of any circumstances which may lead to changes in this schedule.

Signed:

**JOSEPH V. CHARYK**  
Under Secretary of the Air Force

1 Incl:  
**Discoverer Schedule**  
dtd 10 Dec 60

Info copy to: Lt Gen B. A. Schriever  
Mr. R. Dailey  
Col Paul Worthman  
Maj D. Floyd  
Maj H. Howard (SAFUS File Cy)

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16 Dec 60

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**DISCOVERER SCHEDULE**

Launch No.	Agency	Payload Type	Date	Pod	Remarks
18	1103	Cl	6 Dec 60	4	
19	1101	RM-1	20 Dec 60	5	200 pin umbilical 5 day
20	1104	A	10 Jan 61	4	Engineering
21	1102	RM-2	Jan 61	5	200 pin umbilical 5 day
22	1105	A	Feb 61	4	Engineering
23	1106	A Cl	Feb 61	5	
24	1107	Cl	Mar 61	4	
25	1108	Cl	Apr 61	5	
26	1109	Cl	Apr 61	4	
27	1110	Cl	May 61	5	
28	1111	CIII	Jun 61	75-1	
29	1112	A	Jun 61	4	
30	1113	CIII	Jul 61	5	
31	1114	A	Jul 61	75-1	
32	1115	CIII	Aug 61	4	
33	1116	A	Aug 61	5	
34	1117	CIII	Sep 61	75-1	
35	1118	A	Sep 61	4	
36	1119	CIII	Oct 61	5	
37	1120	CIII	Oct 61	75-1	
38	1121 -	F	Nov 61	4	
39	1122 -	F	Dec 61	5	

*Current schedule  
get current schedule  
fr. Col. Butcher*

**NOTE: BIO Shot (#1025) is presently unassigned. See Attached Memorandum for Explanation**

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Page 3 of 3 pages

16 DEC. 1960

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DISCOVERER LAUNCH SCHEDULE

DATE	DISCOVERER No.	PAO NUMBER		
		4	5	75-1

MONTH DAY YEAR

DEC 20 61

~~XIV~~

1101(RM)

JAN 17 61

~~XV~~

1104

FEB 61

~~XVI~~

1102(RM)

MAR 61

~~XVII~~  
~~XVIII~~

1105

1106

PAO MODIFICATION

APR 61

~~XIX~~

1107

MAY 61

~~XX~~  
~~XXI~~

1109

1108

JUN 61

~~XXII~~  
~~XXIII~~

1110

1111

JUL 61

~~XXIV~~  
~~XXV~~

1113

1112

AUG 61

~~XXVI~~  
~~XXVII~~  
~~XXVIII~~

1116

1115

1114

SEPT 61

~~XXIX~~  
~~XXX~~  
~~XXXI~~

1118

1117

OCT 61

~~XXXII~~  
~~XXXIII~~

1119

1120

NOV 61

~~XXXIV~~

1121

DEC 61

~~XXXV~~  
XL

1025

1122

NOTES APPROVED BY DR. CHURYK ON 28 DEC. 1960

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ONE - 104  
Covered 6

28 December 1950

**MEMORANDUM FOR :** Chief, Development Branch, SAC-104/r

**SUBJECT :** Trip Report - Major Charles F. Day, Jr.

1. **PURPOSE:** Trip was made to VAFB and LIND, Palo Alto in regard to Mission 903.

2. **DISCUSSION:**

a. **Leading and Launch of 903:** I acted as team captain of the group at VAFB concerning drop-off of Mission 903. Captain Johnson of 104, Lt. Ross of 104, and Mr. Parsons of 104 were the other members of the team. We were in direct communication with Lt. Col. Murphy at Palo Alto as required. The team then remained at VAFB until after launch in order to verify proper instrument operation from takeoff up to the last possible minute. Mr. M. Green was present for the leading and assisted in securing the leader from the payload. Other than securing the leader and a few minor incidents causing delays, the operation was routine. It is interesting to note that in spite of considerable additional confidence runs on Instrument 10, nothing was found changed from the original drop-off data. The following new procedures were established and will remain in effect:

- (1) The gold "top hat" will be left off until after leading and test operation to visually check film transport.
- (2) Representatives of 104, 104 and 104 are required to sign a flight readiness certificate.
- (3) An LIND data analysis review and takeoff at about 1-4 hours and verifies proper operation.

b. **Indication of 903:** Captain Johnson of 104 stated that a Mr. Lawrence of 104 was conducting a white noise study on radiation predictability and effects due to sun flare activities. It was determined that Mr. Lawrence knew about the mission.

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radiation from sun flares about 7 hours before the launch of Mission 9200. While the state-of-the-art does not now permit a forecast of radiation from sun flares, the build-up pattern of a "storm" we will know and if one is building you can be fairly sure of its intensity and life span in the immediate future. RD is continuing to work on the problem on the white side.

c. High Temperature Ratings Discussed Mr. McMillan's recommendations concerning retaining gaskets without flanges and solid pressure ratings. IED and Jack considered the suggestions very good and will study them further. These suggestions will probably result in an engineering change proposal.

d. Buy-off for Arrows Discussed the procedure for buy-off on the "W" program with Mr. Nichols and Mr. McMillan of IED. They are working on log books similar to those used on the "U" program and these should suffice for the purpose intended. The first "W" buy-off will be at VHS prior to the first flight.

END

CHARLES F. HIX, JR.  
Major

DDO/DE/COMCOM  
Distributions  
1-2-0/DE/DEO  
1-0/DE/DEO  
1-0/DE/DEO  
1-0/DE/DEO  
1-0/DE/DEO

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NR025X1A1(I)C

NR025X

*J.R.J.*

14 December 1960

MEMORANDUM FOR:

[Redacted]

*15-16*

SUBJECT:

Time Systems for C Triple Prime

1. The present C<sup>1</sup> digitote provides time to one-tenth of a second. The "A" clock will provide time to one-thousandth of a second. The reliability of the "A" clock is presently unknown, and it is understood the clock costs up to \$50,000 more than the digitote presently used.
2. Considering TISD's time requirements, the unknown reliability of the "A" clock, and the additional cost of the "A" clock, TISD will accept the time accuracy provided by the C<sup>1</sup> digitote if DFD can guarantee the present digitote to operate successfully for full length missions.
3. A preliminary film evaluation of 9013 indicates the digitote worked successfully for the entire mission.

[Redacted signature block]

Chief, TISD

PIC/TISD [Redacted] (2845)

Distribution:

Original [Redacted]

*J.R.J.*

<p>referred to [Redacted]</p> <p>referred to [Redacted]</p>
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COM 2042  
Copy 2 of 3 copies  
20 December 1960

**MEMORANDUM FOR: Major Charles Roy, Development Branch, ID/P**

**SUBJECT: Digitote and Frequency Marks**

1. Inspection of the duplicate copies received from Kodak shows that the digitote operated perfectly throughout the entire three-day mission. At this point, we are completely satisfied with the digitote. This item will be covered in final form after receipt of the original material.

2. We have no objection to a format extension which would encompass the frequency markers on the edge of the film. We do desire retention of the frequency marks as they are used: (a) for determination of beginnings and endings of camera operation per pass, since the scan rate changes at these points; and (b) the spacing of the frequency marks is used as a factor for a determination of our transformation equations. Our only reservation is that the marks remain clearly discernible. We regard the additional ground coverage and overlap as a welcome bonus. This should be particularly useful to the ACIU people who can use all of the overlap that they can get for control extension purposes.

*John W. Cain*

JOHN W. CAIN  
Chief, TIDB

FID/TIDB:JWCain:jem(3991)

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This document contains information  
referring to Project Gutenberg

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000-007

Case 626

20 December 1949

**MEMORANDUM FOR :** Deputy Director (Plans)

**TITLE :** Acting Chief, Development Projects Division, ID/P 309

**SUBJECT :** Missions Meeting

1. Dr. Chapp, General Curtis, and I discussed several items pertinent to the Missions program yesterday in Dr. Chapp's office.

2. The firing schedule as proposed by IDP in their message 1223 (12 1491), 22 December, was agreed upon. This new schedule differs from that proposed in Dr. Chapp's memo to you of 20 December 1949 in that overall shoot was made change in interval between January and May in all shots due to jet turn around time and jet availability. The Chapp schedule is essentially retained by June and held thereafter as follows:

January 1951	1 SHOT	
February 1951	1 SH	
March 1951	1 SHOT	1 SHOT
April 1951	1 SHOT	
May 1951	2 SHOTS	
June 1951	1 SHOT	1 SHOT
July 1951	2 SHOTS	1 SHOT
August 1951	2 SHOTS	1 SHOT
September 1951	1 SHOT	1 SHOT
October 1951	2 SHOTS	
November 1951	1 F	
December 1951	1 F	

3. The No shot (1225) is not now scheduled flight. General Curtis will instruct IDP to prepare this payload for firing in March in place of the 2nd SHOT engineering flight with final decision to be made after the 1st SHOT shot has been made in January. If the 2nd SHOT shot is required due to failure of the 1st, the No shot payload will skip to end of the program.

4. The two Secret payloads in November and December are to be acknowledged as part of plans at an appropriate later time. Dr. Chapp and General Strong are coordinating their interests and developments of "free side" Secret equipment.

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5. The Agency is advised that there are significant differences between the HNS program as a cover for HNS and that any such decision would need to take into consideration the impact on the new Administration.

6. A meeting will be scheduled within the next few weeks to discuss the HNS cover program. A new cover description is contained in (S.S.S.) attached by HNS although they seem to have had a minimum of input from HNS on the subject.

7. The benefits expected are: earlier issuance period for cover interrogations to provide for 2-4 months against coverages in HNS program. Against these three high costs are that HNS requires considerable time to do the job within a reasonable time prior to HNS.

WILLIAM J. BROWN  
Chief, Intelligence Analysis Section  
NSA-200

CG/AS/NS-20/P-1000000:Jaw  
29 December 1960

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