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27 Oct 61

MEMORANDUM FOR DR. CHARYK

SUBJECT: Discoverer Funds

The following information presents the status of the fund situation provided to SA FMI over the private communications system.

A. Pad 75-1-2

The previous estimate of LMHC, [REDACTED] and DAC, [REDACTED] was based on experience of converting pad 75-1-1. Upon further examination it has been determined that the same conditions do not exist, i. e., Agena checkout equipment was transferred from pad 14 AMR to PMR and actual expenditures, due to audit procedures, were higher than first reported. The revised estimate for conversion is:

Base activity and support
Fabrication and assembly (AMR supplied
for 75-1-1)
Logistics and spares
Support services
Quality assurance
Basic conversion

DAC

[REDACTED]

B. Current actual funds - FY 62 FY 63

[REDACTED]

These are the only funds actually available or shown as approved and this provides for the first five vehicle extension--1123, 1124, 1125, 1126, 1127.

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C. Extended program (2/mo - total 15) - FY 62 FY 63



1962											
J	F	M	A	M	J	J	A	S	O	N	D
1	1	0	1	2	2	2	2	2	2	0	0

This schedule does not require pad 75-1-2 and has no equipment, services, or support problems.

D. Accelerated work schedule (3/mo) - FY 62 FY 63



1962											
J	F	M	A	M	J	J	A	S	O	N	D
1	1	0	2	2	3	3	3	0	0	0	0

These funds will provide for the conversion of pad 75-1-2 and procurement of all Thor/Agasas (thru 1196) peculiar for the One (1) C¹¹ and 14 M program for CY 62. Pad 75-1-2 is required to support this schedule. Immediate release of ~~XXXXXX~~ FY 63 funds are required.

In addition, the priority of this program will slip the third 102 launch and one of the NASA vehicles slightly. Actual pad loading is still being determined.

E. Schedule 1 (3/mo) - FY 62 FY 63



1962											
J	F	M	A	M	J	J	A	S	O	N	D
1	1	0	2	2	3	3	3	3	3	2	1

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This schedule (thru 1145) will require special procedures and additional check out facilities at the base. The Thor recorder lead time is 15 months and DAC is currently on a sustaining rate of two (2) Thors/mo. The DAC tooling can provide 9 on Thors/mo. The engine rate is 2/mo and is capable of 9/mo production. There are two or three extra engines available to support the schedule in C above but NAA will require expeditious support to meet schedule since engine lead times are about one year on normal procedures. The above funds provide for all engine costs in FY 62. In addition, this rate of launches will require additional tracking station support. The above figures include an estimate which might be low. Pad 75-1-2 costs are included.

F. Schedule 2 (max) - FY 62 FY 63



1962											
J	F	M	A	M	J	J	A	S	O	N	D
1	1	0	2	2	3	4	4	3	3	4	2

This schedule (thru 1150) is the schedule shown at the program review on 18 October by LMSC.

The above funds include the conversion of pad 75-1-2. There are some special conditions that will have to be provided in order to meet this schedule. Permission will have to be granted to remove one each of the Program 102 and NASA vehicles in the summer of 1962. We will have to confiscate four boosters from the NASA Delta, Agena B, or Program 102 with these to be replaced at a later date. In addition, the booster production rate will have to be increased to four per month. In order to meet this increased rate a go ahead to NAA is required immediately to meet an August launch date. There will be a very large impact on the C&C and tracking capabilities. There is an estimate in the above funds; however, these may be low. There will be required overtime and priority statements provided to GE in order to make the recovery units to support this schedule. This schedule will require immediate go ahead and full support with no deviations in order for it to be accomplished. This is by far the most difficult of all of the above schedules. There will be interferences at the payload contractors and LMSC. The degree is not known.

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The effect on the program by the introduction of the Agena D (standardized Agena B) assuming availability in mid-CY 62 has not been determined. There is also a potentially serious condition with regard to cover. Possibly "Umbrella," if implemented now and it becomes effective by next summer, will make this problem go away. The conflict with other programs, if any, at both SMD and LMSC has not been determined although it is believed to be minor and temporary. Payloads should not present any problem insofar as availability is concerned. Further detail in fund breakout will be available next week. In order to clarify the actual desired condition it is urgently requested that you select one of the above conditions so that we may proceed to have Mr. Meyer provide the funds and send the direction to SMD to proceed.

RICHARD D. CURTIN
Brigadier General, USAF
Director, Office of
Missile & Satellite Systems

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4 Dec 61

MEMORANDUM FOR DDP/DPD
ATTENTION: [REDACTED]

SUBJECT: MURAL and ARGON Programs

It has been decided that necessary action should be taken to provide for an expanded Discoverer program for CY 1962. It is requested that you provide the following schedule to necessary action agencies, obtain their concurrence (or objections), and take necessary procurement action:

Schedule

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C 1	M 1	---	M 2	M 4	M 6	M 9	M 12	M 15	M 18	M 17	M 19
			M 3	M 5	M 7	M 10	M 13	A 5	A 7	M 18	M 20
					M 8	M 11	M 14	A 6	A 8		

Additional Procurement

Totals

GE	9 recovery systems	25
FCIC	2 ARGONs	4 (plus spares)
ITEK	6 MURALS	22

RICHARD D. CURTIN
Brigadier General, USAF
Director, Office of Missile
& Satellite Systems

HANDLE VIA THE MURAL CONTROL SYSTEM ONLY

ARGON

Copy # 4 of 4 copies.
Page # 1 of 1 pages.

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October 17, 1961

MEMORANDUM FOR 

The attachment indicates recent changes that have been introduced into the satellite reconnaissance program. The aim has been to enhance the capability at an early date while seeking to insure the introduction of the higher resolution capability in the earliest possible time period. The following are the major new elements:

1. The elimination of the "A" flights in 1961 with the substitution of C prime and C triple prime payloads.
2. The Augmentation of the M program from five to 15 firings in 1962.
3. The modification of additional pad facilities to permit a high launch rate of M payloads in 1962. This will provide a capability for three such firings and one NASA firing of a similar vehicle per month.
4. The introduction of a simple cloud cover satellite program employing the SCOUT vehicle for the purpose of giving continuous cloud coverage data on the Sino-Soviet land mass beginning in April or May, 1962.



Significant management changes have been introduced in the case of various contractors, but in particular in the case of Lockheed Aircraft Corporation where a major reorientation is in process of implementation. The AGENA overall

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reliability of about 50%, the high costs and the long schedule times continue to be of concern. We have initiated a thorough analysis of design procedures, particularly with regard to the AGEMA vehicle. A special advisory group has been established under the chairmanship of Mr. [REDACTED] with the aim of making specific recommendations that can improve quality, shorten schedules and result in a more efficient use of financial resources. The schedule shown in the attachment and the items noted above represent the picture as of today, however, an intensive review of the entire program is being undertaken at present and a full report on the total program and the changes therein will be presented in two or three weeks.

Signed

Joseph V. Charyk

Att.

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17 Oct

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NATIONAL RECONNAISSANCE PROGRAM

PHOTOGRAPHIC SATELLITES

	61				62												63	
	O	N	D		J	F	M	A	M	J	J	A	S	O	N	D		
A (7/61)	2	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
A (10/61)	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
C (7/61)	-	1	1		-	-	-	-	-	-	-	-	-	-	-	-	-	-
C (10/61)	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M (7/61)	-	-	-	1	-	-	-	-	2	2	1	-	-	-	-	-	-	-
M (10/61)	-	-	-	-	1	-	2	2	2	2	2	-	-	-	-	-	-	-
E-5 (7/61)*	1	1	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	2
E-5 (10/61)	-	-	2**	-	1	-	1	-	1	-	1	-	1	1	1	-	-	-
E-6 (7/61)	-	-	-	-	-	1	-	1	1	-	1	-	1	1	1	-	-	3
E-6 (10/61)	-	-	-	-	-	1	-	1	1	1	1	1	1	1	1	1	1	-

* First two flights slipped due to explosion on pad.
 ** Second E-5 - Dec 61- under further review due to MIDAS conflict.

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