

DEPARTMENT OF THE AIR FORCE
AIR FORCE SUPPORT OFFICE
 Air Force United States Office, Los Angeles 45, California

REPLY TO
 ATTN OF: **SAFSP-PR**

29 SEP 1961

SUBJECT: **Revision to FY 1962 Financial Plan**

TO: **Secretary of the Air Force**
 ATTN: **SAFMS**
 Washington 25, D. C.

1. Attached are eight copies of Appendix A to Section II, Funding Program, Amendment 1 of the 11 August 1960 SAMOS R&D Program Development Plan. This appendix provides a detailed estimate of additive FY 1962 fund requirements for support of ~~the~~ program elements authorized subsequent to submission of Amendment 1 dated 21 July 1961.
2. In consonance with the intent of instructions pertaining to the distribution of the 11 August 1960 Development Plan, all direct references to ~~the~~ have been omitted from this Appendix A.

[Handwritten Signature]
ROBERT E. GRIER
 MajGen, USAF
 Director
 SAMOS Project

Atch
 Section II Funding Program
 Amend 1, Appendix A dtd
 22 Sept 61, 8 cys (~~SECRET~~)

*Cy #1 to Lou Meyer
 Cy #3 to Tom Heron
 Cy #2 attached herewith
 Cys 3-7 filed w/ US plan.*

SECRET

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~~SECRET~~ SAFSP-25-9-19. FOR SAFUS AND SAFMS.
ON 25 SEPTEMBER, YOU ARE SCHEDULED FOR A PROGRESS REPORT AND
FINANCIAL PLAN ON [REDACTED] BY LT COLONEL HAIG. I WANT TO ADD THE
FOLLOWING COMMENTS. 11/. THE SLIP FROM APRIL TO MAY FOR FIRST
FLIGHT DATE WAS DELIBERATE ON MY PART. I HELD UP CONTRACT AWARDS
UNTIL I WAS SURE WE HAD ALL CONTRACTORS ON BOARD IN THE PROPER
MODE /FIXED PRICE OR CPFF FOR CERTAIN ELEMENTS/ PER YOUR
SPECIFICATIONS. DUE TO EARLY COMPLICATIONS WITH NASA AND ARMY,
WE LOST ABOUT ONE MONTH IN GETTING EVERYBODY ON THE NET. 12/
I HAVE UNDERWRITTEN THE FUNDING TO DATE OUT OF MY BASIC DOLLARS
[REDACTED] SAMOS BUDGET. ALTHOUGH LITTLE CASH HAS ACTUALLY LEFT THE
TILL, MY BOOKS SHOW ABOUT [REDACTED] RESERVE FOR [REDACTED]. A FAIR
AMOUNT OF THIS HAS BEEN INITIATED AND THE REMAINDER IS IN EFFECT
A FROZEN ASSET BECAUSE THE [REDACTED] CONTRACTS WILL REQUIRE THIS
AMOUNT. ACCORDINGLY, MY RESERVES TO COVER CONTINGENCIES IN THE
REST OF MY PROGRAMS ARE DANGEROUSLY LOW FOR THIS POINT IN THE
FISCAL YEAR. I TRUST THAT YOU WILL BE ABLE TO DIRECT REPROGRAMMING
TO INCREASE THE SAMOS BUDGET BY APPROXIMATELY THE DOLLARS [REDACTED]
REQUIRED BY [REDACTED] IF NOT, OR IF THERE WILL BE A SUBSTANTIAL DELAY,
I WOULD APPRECIATE BEING ADVISED SO THAT I CAN RECOMMEND REDIRECTION
OF EFFORT OR OTHER ALTERATIONS TO PROGRAMS [REDACTED]
AS NECESSARY TO SWALLOW [REDACTED] SCAs [REDACTED]

BT
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note for briefing

*5 Oct 61
Approved to send to [REDACTED]
Page 1 provided to [REDACTED]
5 Oct 61 - He advised [REDACTED]
he would [REDACTED]*

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See [REDACTED]

Funding

SAFMS 611010
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16 August 1961

General Curtin

SUBJECT: Difficulties in Project 35

Gen Greer called last night to say that he had received a call from Col Haig about some difficulty in proceeding with Project [redacted] under the ground rules that have been laid down. Haig is at Vandenberg along with [redacted] and they are discussing details with contractors and Navy personnel involving Transit, Blue Scout, etc. Haig says that we can get fixed price from Aerojet at 120% of the CPFF estimate. Gen Greer thinks this is OK. However, Haig says that the Thiokol people say they cannot go along with a fixed price contract because they have a binding agreement with the Army which prevents this action. Haig says he has checked with Huntsville, and they concur in the Thiokol statement. The ABL stages (2) pose no problem, since they are to be CPFF under the ground rules.

Gen Greer's suggestion is that we find out if the Army really does have an agreement with Thiokol which will prevent our carrying out the present plan, or if Thiokol is merely hiding behind the Army for defense against a fixed price contract.

Col Martin

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DEPARTMENT OF THE AIR FORCE
WASHINGTON

OFFICE OF THE SECRETARY

16 August 1961

MEMORANDUM FOR RECORD

SUBJECT: Supplemental Information Regarding Project [REDACTED]

The following information was derived during verbal conversations 3 Aug with Col Haig at the time Project [REDACTED] was briefed to Dr. Charyk and [REDACTED]. This information should be used in conjunction with the briefing charts, and provides amplification of the matter contained within the charts.

- a. Orbital altitude without secondary objective payload 500 miles; orbital altitude with secondary objective payload 400 NM.
- b. Secondary objective payload envisioned as one of a number of three to twelve pound sensors for monitoring radiation intensity.
- c. It is clear that the secondary objective payloads will not be ready in time to meet the flight schedules for the first two launches.
- d. Tracking will be accomplished utilizing solid faced 60 foot dishes available at New Boston and Vandenberg. Tracking mode will be angle only.
- e. The primary payload will have a memory capability for four orbits (both picture and command).
- f. The mode of operation envisions a full diurnal schedule of operations, with a complete plot being accomplished once each day. One day coverage creates unfilled "v's" in the southern regions which can be interpolated by the meteorologist. Two days provides total coverage.
- g. Frame size - 730 miles across at 500 mile altitude; 633 miles across at 350 miles; 1175 across at 650.
- h. Resolution - 1.13 miles at 400 miles altitude.

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i. Period: 105 minutes. Launch time 8:30 p.m. mandatory to achieve desired coverage.

j. Tape Recorder: 160 KC band width

k. Readout Plan: A 48 KC line from New Boston to ~~STC~~ will be rented on a 12-hour per day basis ~~per year~~. Playback of this line will be at .44 of normal readout speed. This will result in a 15 minute time lag for data reception at STC which is considered completely acceptable for this Project. The rental cost is much cheaper than courtering.

l. Ground Station Support: First shot expected to be RCA manned (three men). These will be replaced by Blue *Suits* ~~for~~ second and subsequent shots. Lockheed only will be utilized for ephemeris and vehicle control - not for payload readout. Command function is basically sending "timing set" command. RCA will compute payload stability parameters and provide these to STC for insertion in the Command program. Functions such as tracking, computer use, data handling, etc., are not separated from other operations, and Project 35 will pay prorata share based upon equipment utilization. This is estimated ~~per year~~. Aerospace will provide technical supervision only and will not act as SRTD contractor. It is expected that Aerospace may require an increase of ten spaces for this task. Only five people will be assigned to Col Haig's office in SSD. Their *(Aerospace)* function will be to police the compatibility of the interfaces and assure adequacy of technical documentation to meet range requirements and computer program preparation requirements.

m. If Missile D-9 is used for the first flight, the orbital capabilities cited above may be somewhat reduced.

n. If the four missiles procured can incorporate certain of the latest booster minor improvements it will be possible to carry secondary objective payloads amounting to 35 to 40 pounds at 400 mile altitudes. To ensure non-interference with the mandatory schedule it was agreed with Col Haig that any such secondary payload would be considered only for flights subsequent to the second.

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In a subsequent briefing to [REDACTED] it was agreed to finance this effort on an incremental basis approximately quarterly. It was also pointed out that approximately 1/3 of the requirement fell in FY 62 and 2/3 in FY 63. The direct procurement of boosters requires anticipation of approximately [REDACTED] tooling costs as a prorata share of new tooling to be embraced in support of the Blue Scout program. To meet the schedule requirements of Project 35 it may be necessary to utilize existing NASA tooling and will require the support of NASA. [REDACTED] recommended that Project [REDACTED] not provide any of the tooling costs which would be incurred in total by procurement for the Air Force Blue Scout program.



E. J. Istvan

EDWIN J. ISTVAN
LtColonel, USAF
Assistant for Electronics
Office, Missile and Satellite
Systems

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DEPARTMENT OF THE AIR FORCE
WASHINGTON

OFFICE OF THE UNDER SECRETARY

August 7, 1961

MEMORANDUM FOR DIRECTOR DEFENSE RESEARCH & ENGINEERING

SUBJECT: Meteorological Information Satellite (S)

This is to confirm the conclusions of our telephone conversation of 5 August 1961 relative to my memorandum to you of 4 August concerning the meteorological information satellite.

In accordance with your oral approval, I have given instructions to our appropriate offices to proceed to enter into contractual commitments with the appropriate contractors for this program. I shall keep you informed on a regular basis as to progress.

Joseph V. Charyk
Joseph V. Charyk

OK
HD

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DEPARTMENT OF THE AIR FORCE
WASHINGTON

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OFFICE OF THE SECRETARY

4 August 1961

**MEMORANDUM FOR DIRECTOR OF DEFENSE RESEARCH
AND ENGINEERING**

SUBJECT: Meteorological Information Satellite

Reference is made to my memorandum of 11 July 1961, and to your memorandum of 15 July, concerning the meteorological information satellite.

The meteorological satellite program to support satellite reconnaissance, as briefed to you on 3 August, can be accomplished within the time schedules indicated in my 11 July memorandum for a program cost not exceeding [REDACTED]. This program will be conducted utilizing strict need-to-know security procedures and will be accorded no public release. The arbitrary name [REDACTED] has been assigned. The program makes maximum use of existing hardware, and is planned to be launched and operated by Air Force personnel with minimum contractor support. The program will be conducted with a minimum of documentation and I will personally closely monitor the progress.

Hardware procurements within this program will be accomplished through fixed price contracts for the spacecraft, boosters, and motors (except 3rd and 4th stage). The Air Force will contract directly for procurement of boosters. The contracts stipulate that failure to satisfy the delivery schedule can result in termination. The necessary launch, field, and technical support will be provided by CPFF type contracts based upon closely controlled levels of effort required for this project.

We have compared this approach with an extension of the TIROS program to satisfy this critical requirement. The NASA TIROS effort could be augmented by 4 additional vehicles and an additional Western European tracking station, however the coverage afforded would be less, and the costs significantly greater than the [REDACTED] effort.

To meet flight schedules, it is urgent that the [REDACTED] be directed to proceed at once. Your [REDACTED] is requested.

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