

#### DATE \_\_ 17 March 1960

MEMORANDUM TO: Dr. Charyk

Reference our conversation regarding Dr. York's unsigned draft memo, I consider this a matter of utmost importance and strongly recommend you respond as per inclosure.

Toutelle Khiri

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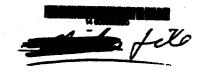
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON 25, D. C.

MEMORANDUM FOR OFFICE OF SECRETARY OF DEFENSE (DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING)

SUBJECT: SAMOS, MIDAS and DISCOVERER Research and Development Programs and Development/Operational Plans for SAMOS and MIDAS Programs

Reference: Memorandum for Secretary of Defense from Under Secretary of the Air Force, subject: Transfer of the SAMOS, MIDAS and DISCOVERER Development Programs to the Department of the Air Force, dated 18 Feb 1960, and your undated draft response to the 18 Feb Memo from Under Secretary of Air Force

- l. It is understood that the referenced draft memo addresses itself solely to the subject of the RED programs of DISCOVERER, SAMOS, MIDAS and that specific comment on the SAMOS, MIDAS Dev/Ope plans is essaiting JCS recommendations.
- 2. There is irrefutable evidence of urgent intelligence needs that are beyond the capability of the "C" program. We are currently re-examining the reliability and probability of success that can be expected from both the recovery and early readout systems. This examination is based upon review of our actual experience in the DISCOVERER program and extensive ground tests. These tests of the E-1 were made with the actual flight hardware and ground support equipment. It does appear that within the presently authorized funds an approach based upon an increase in the readout offers much higher probability of obtaining the intelligence information in the time period rather than extending the "C" program.
- 3. If a "C" program extension is considered necessary, then as a compromise it is recommended that our RAD programs for DISCOVERER, SAMOS, MIDAS be approved as submitted and that the Air Force be allowed to reprogram FT-61 funds from non-space programs to provide the number of additional "C" shots directed, with the understanding that there is sufficient flexibility to recrient the "C" program or the readout (E-1 or E-2) as will be justified by future development experience.



MEMORANDUM FOR RECORD

6 November 1959

SUBJECT: SAMOS, MIDAS AND DISCOVERER Programs



Personnel in Attendance:

Dr. Charyk Maj Gen Davis Col Oder Col Butcher Maj Howard Maj Floyd

- 1. The problem that was under discussion could be stated to be the transfer of satellite programs from ARPA to the Air Force. Dr. Charyk has agreed that the Air Force would prepare a new development plan to be submitted to Dr. York by 15 January 1960 and the operational plan with user relationships to be submitted to the Sec/Def by 15 January 1960. The ground rules for the new development plan must be consistent with 1) the new funds; 2) emphasis on the recovery package with high resolution; 3) adequate ground test and environmental testing; 4) a planned program for assuring reliability. We are to prepare a study for submittal to Dr. York on the type of facilities required to assure adequate testing of space programs. This is to determine whether there should be a central facility (AEDC) and/or concentrated facilities spread through the prime contractors.
- 2. AFDAT is to arrange a meeting next week (probably 13 Nov) to include the following people: Dr. Charyk, Gen Walsh, Gen Davis, Gen Boushey, Col Hicks, Maj Howard, Maj Floyd, and from ARPA Gen Ostrander, Lt Col Redler, and others. The purpose of this meeting is to get an agreement on the transfer procedure for space progress. With respect to the funds transfer the meeting held between Dr. York, Dr. Charyk and 3.453 others on the Grd of Boy established Air Force space program funds at \$100 million dollars; therefore, the FI '61 funds planned were:

(in millions)

DISCOVERER

TOTAL ANW TOTAL

Air Force

ARPA

MCP

Since the Air Force funds were cut from current directive for AFRED to come in one 23 November must be cancelled since the plans are already out of date. The ARPA funds of

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Dr. Charyk believes that this discoverer funds so not include Project "A". Dr. Charyk believes that this discoverer funds so irrevocable. The guidance to AFRMD should emphasize the criticality of funds but that if justified under the above ground rules the Air Force could recommend reprogramming from lower priority projects within the Air Force budget of approximately. It is imperative that the Air Staff give program direction to AFRMD on how to split up the Air Force and ARPA funds between MIDAS and SAMOS. In order to do this Dr. Charyk suggests a group be established in Eq to assure the documentation to OSD by 15 January 1960. The Wespons Board and the Ballistic Missile Committee are to be given a current status of MIDAS and SAMOS at the 18 and 23 Movember meetings on space launch pads.

- 3. Dr. Charyk stated that what is really needed is an understanding of the requirement for the readout program. OSD personnel are not convinced that a readout capability on a 2-hour basis at the specified resolution is valid for strategic intelligence. In order to emphasise the recovery program it would be better to research and develop payloads and not concentrate on so many flights. If the "C" program turns out to be useful it is probable that the number of flights will be increased and thereby increase the recovery program fund trailability -
- 4. Dr. Charyk stated that the Communications Satellite is not very healthy. On his and Dr. York's trip out to SAC, General Power told them that moving the positive control line further out is not very important but rather positive control in the existing area is much more important; therefore, York's question is the Communications Satellite the correct way to spend to get better communications. Major Howard then asked if Dr. Charyk was desirous of receiving the transfer request for the controversial items. Dr. Charyk replied that these should be handled in a different manner and that he wanted to discuss it at a later time.
  - 5. The following actions are required:
    - a. A TMX to AFRED to relieve the 23 Movember deadline.
    - b. Set up a meeting with ARPA and Air Staff group next week.
- c. Establish the new ground rules on which a development program is to be forwarded.
- d. Initiate a study for ground test facilities required for space programs.
- e. Establish guidance for distribution of the Discoverer, Midas, and Semos funds.

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Henry Haw

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MEMORANDUM FOR THE SECRETARY OF THE AIR FORCE

SUBJECT: SAMOS, MIDAS and DISCOVERER Research and

Development Programs and Development/Operational

Plans for SAMOS and MIDAS Programs

Reference: Memorandum for Secretary of Defense from Under

Secretary of the Air Force, subject: Transfer of the

SAMOS, MIDAS and DISCOVERER Development

Programs to the Department of the Air Force, dated 18 Feb 1960.

Reference memorandum submitted for review and approval proposed Research and Development Programs for SAMOS, MIDAS and DISCOVERER and proposed Development/Operational Plans for the SAMOS and MIDAS programs. The Development/Operational Plans have been referred by the Secretary of Defense to the Joint Chiefs of Staff for review and comment.

The Research and Development Programs were submitted on the basis that there was available to these programs totals of in FY 1960 These amounts are stated by the Air Force to be less than required to accomplish the Research and Development Programs as submitted. The additional amounts required for FY 1960 are stated to be \$20.6 million for MIDAS, and understood to be for DISCOVERER. The program amounts requested for FY 1961 exceed the amounts presently programmed in the PY 1961 budget estimates.

The MIDAS Research and Development Program, as submitted by the Air Force, has been reviewed and the recommended program. estimated at \$51.7 million for FY 1960 is approved in principle. It is understood that steps are underway within the Air Force to implement the MIDAS program in accordance with the objectives of the Research and Development Program.

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The DISCOVERER Research and Development Program has been reviewed. In accordance with subsequent discussions held with this office, it is understood that the Air Force is preparing a revised Plan further extending the DISCOVERER program within presently estimated requirements of for FY 1960 and pending submission of further detailed information for approval by this office. The FY 1961 amount is subject to adjustment contingent upon the submission and approval of a revised Plan by the Air Force.

The SAMOS Research and Development Program has been reviewed. As outlined in subsequent discussions held with this office, it is apparent that the SAMOS Research and Development Program as presented, including the proposal for seven additional shots, must be further reviewed. You are authorised to proceed on an interim basis within funding estimates of \$160.0 million for FY 1960 and the current technical review, further detailed guidance will be provided by this office concerning SAMOS objectives. Pending receipt of this guidance, it is desired that current effort assure that available resources are applied to fully achieve research and development objectives, including schedule, in order of priority; accepting slippages as necessary in the lower priority items. It is understood that the priority established in the Research and Development Program provides for emphasising photographic payioads over ferret, and within photographic mode, recovery over readout.

The above authorizations are based on the availability of funds as follows and do not include military construction requirements:

## PROGRAM FUNDING SUMMARY

	FY 1960	FY 1961
MDAS		
Currently Programmed, P600 Anticipated Emergency Fund	\$ 31.1	
transfer to P600  To be made available by	<i>‡</i> 20.6	
Reprogramming, P600 Sub-total MIDAS		
TO TOTAL MEDICAL	51.7	ilmoonalii.



FY 1960

FY 1961

### DISCOVERER

Currently Programmed, P600
Anticipated Emergency Fund
transfer to P600
To be made available by
Reprogramming, P600
Sub-total DISCOVERED





### SAMOS

Currently Programmed P600
Reprogramming Adjustment,
P600
Sub-total SAMOS

\$ 160.0

160.0



TOTAL

Source of Funds to Support Programs Summarised above

Currently Programmed P600
Anticipated Emergency Fund
transfers to P600
To be made available for the
development programs from
P200





TOTAL

As noted above, further detailed technical guidance will be provided on the MIDAS, DISCOVERER and SAMOS programs at an early date. Also, beyond the amounts noted above, these actions do not constitute a basis for any request for supplemental funds. None of the foregoing actions should be construed as approval of any military construction items, which are to be handled separately. The amounts listed above are for purposes of program guidance and actual funding will be arranged through usual fiscal channels.

Herbert F. York

cc: ASD (Comptroller)

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7 = Oct + 0

PENCRIPUM FORE No. R. E. Manuell, CTA
Col. A. E. Satth, IDEAS
Col. Paul Herthous, APRO
Col. Lee Battle, APRO
No. Jim Planner, 1980

- 1. The Unior Secretary of the Air Force requests a meeting conserving the MINCOVERR Program in the Postagon, Room \$5-869 at 1000 hours, 3 Heresber 60, with the following agents:
- a. Propostation of our program control procedures for DESCOVERS Program.
  - b. Presentation of latest scholules.
- e. Manualous by Antenstries of degratation to end product as result of performance specification changes of Ther Agent 2 as provided by 14 Calanal C. Marphy on 21 October.
- d. Progress report on test and checkent status of flight

JOHN L. MARTIN, JR.

Colonel, USAF

Deputy Director, Office of Missile & Satellite Systems

Sinceted (and letter approved) by Br Chank 28 asks

SAFMS FILE COPY
6 other Copies @ 1/addresse to M. Buton, CIA.

SPECIAL SECTION