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DEPARTMENT OF THE AIR FORCE  
AIR FORCE BALLISTIC MISSILES COMMITTEE  
WASHINGTON 25, D. C.

AFBMC 2/45

12 April 1960

MINUTES OF THE FORTY-FIFTH MEETING  
AIR FORCE BALLISTIC MISSILES COMMITTEE  
Held in Room 4C-1052, Pentagon  
10 February 1960

Present:

Members:

Hon D. C. Sharp, Secretary of the Air Force  
Hon J. V. Charyk, Under Secretary of the Air Force  
Hon L. S. Garlock, Assistant Secretary (FM)  
General C. E. LeMay, Vice Chief of Staff  
Lt Gen D. C. Strother, Deputy Chief of Staff, Operations  
Lt Gen R. C. Wilson, Deputy Chief of Staff, Development  
Lt Gen B. A. Schriever, Commander, ARDC  
Lt Gen M. E. Bradley, Deputy Chief of Staff, Materiel  
Brig Gen H. A. Boushey, Assistant for Advanced Technology, DCS/D  
Brig Gen R. E. Greer, Assistant Chief of Staff for Guided Missiles

Staff:

Others Present:

Col John L. Martin, Jr., Secretary, AFBMC (Space Systems)

AFODC

Maj Gen B. K. Holloway  
Lt Col W. J. Raynor

AFGIN

Maj Gen J. H. Walsh  
Major C. E. Girard  
Major W. Biely

AFAC

Lt Gen W. D. Eckert  
Mr. L. C. Meyer

SAFIE

Mr. J. M. Ferry

SAFRD

Mr. J. P. Ruina

AFXPD

Maj Gen H. C. Donnelly

AFBMD

Col R. D. Curtin  
Col Harry Evans  
Col F. C. Oder  
Lt Col Q. A. Riepe

AMC (BMC)

Lt Col J. S. Seay

ARDC

Col C. H. Sinex

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SAC

Brig Gen S. Parker  
Lt Col E. G. Malling

ADC

Brig Gen G. B. Greene, Jr.  
Lt Col J. W. Bennett

AEDAT

Major H. C. Howard  
Major D. S. Floyd

1. The Committee convened at 1430 to consider the recommendations of the Strategic Missile Review Committee, and to review the development plan for DISCOVERER and the development, operational and user relationship plans of SAMOS and MIDAS. These minutes pertain to the space systems only; the missile matters are covered by separate minutes.
2. In consideration of the development presentations on the DISCOVERER, SAMOS, and MIDAS programs, the Committee:

NOTED:

- a. That ARDC had been directed to prepare development plans on these three programs based upon a total of [REDACTED] available in FY 61. [REDACTED] available in FY 60 and [REDACTED]
- b. That ARDC had been advised to prepare, for consideration by the Air Staff and the AFBMC, additional costs above the ceiling amounts for these two years to conduct important aspects of these programs.
- c. That ARDC had been authorized to adjust the amount necessary for each program within the total funds available.

3. In consideration of the DISCOVERER program the Committee:

NOTED:

- a. That ARDC had been directed to maintain the present 29 flight DISCOVERER program.
- b. That ARDC was authorized to reprogram funds from the SAMOS and MIDAS programs to accomplish the above.
- c. That the flight schedule for the DISCOVERER 29-launch program would be complete by November 1960.
- d. That the funds required to complete this program were as follows:

FY 1960  
[REDACTED]

FY 1961  
[REDACTED]

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e. That these costs were [REDACTED] less than those shown the AFMBC on 14 December 1959. This reduction was accomplished by: (1) deletion of the Annette Station; (2) reduction of spares; (3) deletion of the light weight thrust chamber development; (4) reduction of over-all support; and (5) contract definitization.

f. That the Weapons Board recommended that the DISCOVERER minimum essential development plan be approved as the minimum acceptable program.

APPROVED:

a. The minimum essential development plan as presented.

DIRECTED:

a. That this development plan be presented to the Director of Defense Research and Engineering for approval.

b. That pending approval by DDR&E, ARDC should take the necessary action to protect the schedule and integrity of the plan as presented.

4. In consideration of the SAMOS program the Committee:

NOTED:

a. That ARDC had been directed to prepare a development plan based on early tests of the readout and recovery photo systems at the expense of the ferret program.

b. That ARDC had been directed not to delete any payload program.

c. That ARDC had been directed to strive for earliest flight demonstration in the revised program, with fund shortages to be absorbed by reduction in sophistication of planned operational phase.

d. That emphasis had been given to the research and development phase of the SAMOS program by an increase from 18 to 25 flights during the period from September 1960 through December 1962. Three E-5 recovery tests were added to make a total of seven. Two E-2 readout tests were added to make a total of eight and two analogue ferret tests have been added to make a total of three. The first three tests in September and November 1960 and January 1961 are to be components of the photo and ferret readout systems. Four digital ferret tests are to begin in January 1961. The first E-2 20 foot visual recon system test is scheduled for April 1961. The first E-5 recovery photo system is scheduled for September 1961.

e. That the tracking stations required to conduct the R&D program were limited to that at Vanderberg Air Force Base and the station in New Boston, New Hampshire, together with elements of the DISCOVERER net.

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f. That the cost of the minimum essential R&D SAMOS program was as follows:

	<u>FY 1960</u>	<u>FY 1961</u>
R&D	\$ 160.0	
Facilities	2.5	

g. That to accomplish exploitation of parts of the program by August 1962 and to permit operation of the system by SAC in July 1963, a development/operational program was considered necessary which would cost:

	<u>FY 1960</u>	<u>FY 1961</u>
Dev/Ops	\$ 7.7	
Facilities	.9	

h. That the projected costs for FY 1962 and FY 1963 are as follows:

	<u>FY 1962</u>	<u>FY 1963</u>
R&D		
Dev/Ops		
Facilities		

1. That the Weapons Board recommended that:

- (1) The SAMOS minimum essential development plan and development/operational plan be approved as the minimum acceptable program.
- (2) The \$7.7 million required in P-200 funds for the development/operation program which will expend approximately \$3 million in FY 1960 be absorbed within the total P-200 program.
- (3) The Air Force advise OSD that it will reprogram as necessary to meet the FY 1961 development/operational program.
- (4) That the ferret program should be examined for possible lower priority than photo, with possibility of diverting some ferret funds to support MIDAS.

APPROVED:

a. The minimum essential development plan and the development/operational plan as presented.

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DIRECTED:

- a. That these plans be presented to the Director of Defense Research and Engineering for approval.
- b. That pending approval by DDR&E, ARDC should take the necessary action to protect the schedules and integrity of the plans as presented.
5. In consideration of the MIDAS program, the Committee:

NOTED:

- a. That MIDAS has a lower priority in the Master Urgency Listing than either SAMOS or DISCOVERER.
- b. That after providing all the funds necessary for SAMOS and DISCOVERER from the total amount available in FY 1960 and FY 1961, the remainder left for MIDAS as follows:

FY 1960

\$ 31.3

FY 1961  
[REDACTED]

c. That results of these fund deficiencies require that AFBMD stop all fabrication from the period 1 March through 30 June, reduce the management and engineering staff at Lockheed by 50%, and perform only minimum basic study investigations for the remainder of FY 1960 until FY 1961 funds are available.

d. That under these limitations the R&D test program for MIDAS is stretched out through October 1963.

e. That to accomplish a minimum essential R&D program (which can be complete by July 1962) R&D funds are required in FY 1960 and FY 1961 as follows:

FY 1960

\$ 51.9

FY 1961  
[REDACTED]

This represents an addition to the ceiling in the R&D program of \$20.6 million in FY 1960 and [REDACTED]. The facilities necessary to accomplish this minimum essential R&D program are \$5.7 million in FY 1960.

[REDACTED]

g. That the development/operational program for MIDAS which will lead to a fully operational program by sometime in CY 1963 will cost as follows:

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	<u>FY 1960</u>	<u>FY 1961</u>
Dev/Ops	0	
Facilities	\$ 1.0	

h. That the forecast for costs in subsequent years are as follows:

	<u>FY 1962</u>	<u>FY 1963</u>
R&D		
Dev/Ops		

1. That the Weapons Board recommended that:

- (1) The MIDAS minimum essential development plan and development/operational plan be approved as the minimum acceptable program.
- (2) The MIDAS program be given equal priority with the SAMOS program.
- (3) DYNASOAR funds be reprogrammed to cover the \$20.6 million P-600 funds required in FY 1960 to provide the minimum essential R&D program.
- (4) The Air Force advise OSD that it will reprogram as necessary to meet the FY 1961 minimum essential R&D program and development/operational program.

AGREED:

a. To the desirability of additional launches from AMR in the period April-December 1960.

APPROVED:

a. The minimum essential development plan and the development/operational plan as presented.

DIRECTED:

a. That these plans be presented to the Director of Defense Research and Engineering for approval.

b. That pending approval by DDR&E, ARDC should take the necessary action to protect the schedule and integrity of the plans as presented.

c. That \$20.6 million should be requested from DOD emergency funds to cover the FY 1960 minimum essential R&D program.

d. That if the above emergency fund request is unsuccessful, the \$20.6 million should be taken from DYNASOAR.

e. That action be taken to raise the priority of MIDAS as soon as any new test data is obtained which would support this action.

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f. That ARDC examine the possibility of additional MIDAS launches during the period April-December 1960.

6. In consideration of the presentation on operational plans and user relationships for SAMOS and MIDAS, the Committee:

NOTED:

a. That it is proposed to assign operational control of SAMOS to the Strategic Air Command, and operational control of MIDAS to the North American Air Defense Command.

b. That the proposed SAMOS wing organizational structure consists of a launch squadron, a tracking and acquisition squadron, a data processing squadron, a recovery group, and a Technical Operations Control Center (TOCC). This Center would exercise control over the launching and maintenance of both SAMOS and MIDAS satellites, with the TOCC being responsible to the MIDAS Operations Center (MOC) for this support of MIDAS. The MIDAS system will be operated by the Air Defense Command in response to the operational control of NORAD. The MIDAS wing will consist of three instrumentation squadrons and the MIDAS Operations Center (MOC) which will control the launch, satellite control and readout operations. Location of the TOCC for SAMOS and the MOC for MIDAS in a common facility makes the necessary coordination between the systems operators easier to accomplish and aids in relaying MIDAS warning information to both commands.

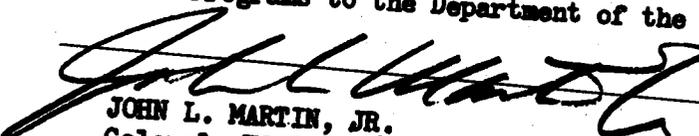
c. That the user relationships plan recognizes SAMOS and MIDAS as national resources, and proposes to support national intelligence objectives by extension of presently established procedures to handle SAMOS/MIDAS information.

d. That the Secretary of Defense will be asked to approve the proposed assignment of operational control of these systems, the proposed organizational structure for employment of these systems, and the proposed methods of supplying the SAMOS and MIDAS derived information to the agencies of the National Intelligence Community.

APPROVED:

a. The operations plans and user relationships as presented, and their presentation to the Secretary of Defense as planned.

7. Subsequent to the meeting, the Committee's directives of immediate concern to ARDC were forwarded by AFDAT message 70703, dated 15 February 1960. The development and development/operational plans were forwarded with recommendations for approval to the Secretary of Defense by memorandum of the 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 February 1960.

  
JOHN L. MARTIN, JR.  
Colonel, USAF

Secretary, Air Force Ballistic Missiles Committee (Space Systems)

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