

AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
UNITED STATES AIR FORCE
AIR FORCE UNIT POST OFFICE
LOS ANGELES 45, CALIFORNIA

UNCLASSIFIED

NOV 30 1959

Reply to
Attn Of: **WDZYO/Maj Murphy/2751**
Subject: **AFEMD Operation Plan 2-59 (6594th Test Wing)**

1684

To:

1. Reference WDZSO letter, same subject, dated 7 October 1959.
2. Attached are copies of the first Preliminary Operational plan 2-59 for the 6594th Test Wing. This preliminary draft was prepared from inputs from the WDZ, WDS, WDC and LBZJ staff agencies.
3. It is requested that your agency conduct a comprehensive review of the entire plan and submit your comments and recommendations to WDZYO-1, not later than 1500 hours, 4 December 1959.
4. Your cooperation in reviewing this plan is necessary in order to meet the original established target date of 15 December 1959 for publication of the final and approved AFEMD plan.
5. If comments are not received by the due date established (4 December 1959), this agency will assume the plan, as written, is valid and will publish it as the final approved plan.
6. Your attention is directed to the new title and designations appearing in the contents of this plan. These titles were the result of the Steering Committee actions during the SAMOS/MIDAS Operational Plans Conference conducted at AFEMD during the week 9-13 November 1959. These changes are:

Old Title

Development Control Center (DCC)
Technical Operations Control Center (TOCC)

New Title

Satellite Test Center (STC)
~~Space Operations Control (SOC)~~

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Intelligence Processing Center (IPC)

Data Processing Facility (DPF)

6594th Test Wing


* 6594th Satellite Test Wing

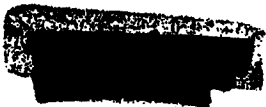
* To change the organizational designations of the Wing requires a General Order; Action has been initiated to request that a G.O. be published changing the Wing designation to the 6594th Satellite Test Wing.

7. Concurrent with the in house AFBMD review, this agency will present the plan in its preliminary form to the 6594th Test Wing for their review and comments during the first week of December 1959.

8. Revised planning schedule is as follows:

a. Publication and distribution of the POP draft plan	23 Nov - 27 Nov
b. In House review of POP	30 Nov - 4 Dec
c. 6594th Review	30 Nov - 4 Dec
d. Revision and retyping for final plan	7 thru 11 Dec
e. Publication	18 Dec 1959.

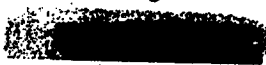

ARNELL R. SULT
Lt Colonel, USAF
Director
Operational Employment



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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
LOS ANGELES 45, CALIFORNIA

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

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FOREWARD

This plan is published for the purpose of clarifying operations interface and interrelationships of Headquarters Air Force Ballistic Missile Division (ARDC) staff agencies and the 6594th Test Wing (ARDC).

The 6594th Test Wing was activated at Palo Alto, California, on 6 April 1959, by Headquarters ARDC General Order #28, dated 3 April 1959. This Wing was activated to satisfy the Hq USAF directive for the achievement of an initial operational capability with the SAMOS/MIDAS Military Space Systems.

This plan was prepared for the specific purpose of defining the 6594th Test Wing mission responsibilities and relationship in sufficient detail to enable the commander of that organization to clearly understand his role in the overall USAF military space system development and operational programs and to provide a basic reference document for AFEMD/Contractor planning and programming agencies.

This plan applies to the 6594th Test Wing and the subordinate units as long as they remain assigned and under the operational control of Hq AFEMD (ARDC).

[REDACTED]

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3. Tasks & Responsibilities
4. Logistics and Administrations
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D R A F T

Air Force Ballistic Missile Division (Hq ARDC)
Los Angeles 45, California

OPERATIONAL PLAN

15 November 1959

Serial No. AFEMD 2-59

TASK ORGANIZATION

AFEMD

6594TH TEST WING AND SUBORDINATE UNITS

AFEMD FIELD OFFICES

LOCKHEED MISSILE SYSTEMS DIVISION

1. SITUATION

a. Current

AFEMD development and operational planning and programming for the DISCOVERER, SAMOS and MIDAS programs have progressed to the point where the 6594th Satellite Test Wing, as the AFEMD Field Test and Military Operational Organization in these programs, will be required to develop its capabilities to effectively accomplish that portion of the AFEMD functional responsibilities which have been assigned.

This organization will be required to actively participate in flight test activities which entails continuous test planning, programming, scheduling and test control of three separate programs being conducted simultaneously. Existing Discoverer test operating locations will be supplemented by additional test operating locations facilities and installations required for developing and flight testing the SAMOS/MIDAS military space systems. It is also planned that the wing test and evaluation responsibilities will be expanded by the provisions of the established military test and evaluation program (ARDC Supplement 1 to AFR 80-14). This program will be conducted by research and development type military personnel in support of AFEMD's responsibilities for current and other USAF development and operational space programs and ARPA/NASA space projects.

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The SAMOS/MIDAS military space systems are being developed for operational employment by USAF operational type military personnel. In compliance with established and proven concepts, the development of the USAF military operational capability for these systems will be conducted concurrently with the development of the system hardware. Commencing in September 1959, operational type military personnel are being identified for integration into the SAMOS/MIDAS programs. The initial complement of personnel will be AFEMD Cadre and Air Training Command (ATC) Field Training Detachment (FDT) Cadre personnel, who will participate in "In House" contractor training courses and contractor R&D test operations. This group will be followed by a main complement which will receive on-site training by ATC FDT at SAMOS/MIDAS facilities and installations and/or in specialized formal training courses. When the initial operational capability is achieved, the wing will be required to operate and maintain the SAMOS/MIDAS systems until transfer of this capability is effected. The Wing Staff will also be required to participate and assist AFEMD in operational-training requirements, planning and programming activities affecting this organization for the SAMOS/MIDAS programs.

In addition to the above, the Wing is also expected to achieve the capability to accomplish the normal Wing responsibilities for planning, programming and supporting all subordinate military organizations activated and assigned. By the end of the development period the Wing organization will consist of approximately 12 test and operational units, located throughout the ZI and overseas with approximately 3500 military personnel.

In order for this Wing to achieve its capabilities for performing tasks of the magnitude outlined above, it is mandatory that the test and operations interface and inter-relationship be clearly identified and defined, before successful merging

[REDACTED] [REDACTED]

and/or phase-in of the programs can be accomplished. Statements of responsibilities and relationship of the Wing with AFEMD/Contractor and other agencies involved in these programs must be developed, coordinated and published to provide the basis for the establishment of necessary control and management techniques to attain the program objectives.

This plan is prepared for the express purpose of defining the 6594th Satellite Test Wing mission responsibilities and relationship in sufficient detail to enable the Commander of that organization to clearly understand his role in the overall USAF military space system development and operational programs and to provide a basic reference document for AFEMD/Contractor planning and programming agencies. This plan covers the period up to 1 July 1962 for SAMOS, and 1 January 1963 for MIDAS.

b. Assumptions

That the 6594th Satellite Test Wing will ultimately become the ARDC/AFEMD (Air Force Ballistic Missile and Space Division) Test and Evaluation organization, manned by research and development military personnel, responsible for conducting and supporting USAF space system development programs.

That the 6594th Satellite Test Wing will be required to participate in concurrent activities for achievement of USAF military operational capabilities to include AFR 80-14 participation for operational type military personnel.

That SAMOS/MIDAS system facilities and installations to include launching, tracking, data acquisition, data processing, data reduction and recovery, will be released to the command and control of the using commands as directed by Hq USAF.

That 6594th Satellite Test Wing will retain its identity and required facilities and organizational capabilities including R&D personnel to perform its test mission subsequent to transfer of its operational capability.

[REDACTED] [REDACTED]

That during the SAMOS/MIDAS development program period, SAMOS/MIDAS instrumentation and readout stations and associated communications links will remain as integral facilities of the SAMOS/MIDAS system.

2. MISSION

The 6594th Satellite Test Wing will:

- a. Assume command and control of all subordinate USAF units organized, activated, and assigned which are required to support the development test and operational employment mission of this organization as directed by Hq ARDC general orders and as defined in appropriate AFEMD directives.
- b. Execute development test and evaluation programs in support of the DISCOVERER, SAMOS and MIDAS programs to the extent specified in appropriate AFEMD test directives.
- c. Simultaneously develop and achieve the initial USAF military capability to operate and maintain the SAMOS/MIDAS military space systems.
- d. After attaining the capability defined in 3c above, operate and maintain the SAMOS/MIDAS systems until transfer of this capability is directed by Hq USAF.

3. TASKS AND RESPONSIBILITIES

- a. The Air Force Ballistic Missile Division will:
 - (1) Be responsible for design, development, testing and evaluation of assigned military space systems.
 - (2) Satisfy approved SAMOS/MIDAS operational and logistics requirements in terms of systems design and system employment need dates.
 - (3) Review and evaluate plans and directives pertaining to space system development, test, operations and training in accordance with current management policy.

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(4) Provide administrative and logistical support to the 6594th Satellite Test Wing as required.

b. The 6594th Satellite Test Wing will:

- (1) Command, administer and provide necessary support to all assigned units.
- (2) Initiate plans and programming actions for attainment of the Wing capability to implement the assigned Wing functions and responsibilities as defined herein and as may be further directed by AFEMD.
- (3) Participate and support DISCOVERER, SAMOS and MIDAS development test and evaluation programs to the extent specified in AFEMD test directives.
- (4) Participate and assist AFEMD in planning for the establishment of the USAF military test and evaluation capability program for military space systems as established in ARDC Supplement #1 to AFR 80-14 and to the extent defined in appropriate AFEMD directives.
- (5) Achieve the Wing capability to perform testing and evaluation functions as established in ARDC Supplement in ARDC Supplement #1 to AFR 80-14 and as defined in the appropriate AFEMD directive.
- (6) Participate to the maximum in AFEMD/Contractor category I and II test operations to observe and obtain a thorough knowledge of SAMOS and MIDAS components, subsystems and systems technical and performance characteristics and capabilities, operational procedures and operational techniques, for purposes of operational evaluation and application to the ultimate operational configuration of the systems for military use.
- (7) Participate and assist AFEMD in the establishment and implementation of personnel subsystem test and evaluation programs for SAMOS and MIDAS to include human engineering, personnel-training concepts, training plans, training equipment and devices and technical manuals.



[REDACTED] [REDACTED]

(8) Review, identify and recommend to AFEMD the ARDC test and evaluation personnel and facilities required for the retention of this capability to support continued and follow-on military space system development test programs.

(9) Participate and assist AFEMD and the using commands as required in preparation of category II and III, test plans and programs for the SAMOS and MIDAS systems.

(10) Participate and assist AFEMD in the preparation of preliminary and follow-on planning, programming and requirements actions for the operational employment of the SAMOS and MIDAS systems in the areas of operations, maintenance, personnel, logistics and communications.

(11) Participate and assist AFEMD as required in the review of design criteria for SAMOS and MIDAS equipments, facilities, and installations to insure compliance with established requirements and concepts of operation.

(12) Participate and assist AFEMD in the establishment and preparation of logistical concepts and requirements for the SAMOS and MIDAS systems to include WSECL, UAL, Provisioning, etc.

(13) Achieve the Wing capability to operate and maintain the SAMOS and MIDAS systems with assigned military personnel to include launching, tracking, data acquisition, data processing, data reduction and recovery for orbital space vehicles in accordance with the approved operational program schedules.

(14) Participate with AFEMD in the programming and planning of time-phased quantitative and qualitative trained personnel requirements to satisfy approved operational program schedules.

(15) Monitor on-site training programs as specified in appropriate AFEMD directives.

[REDACTED] [REDACTED]

(16) Prepare, maintain and submit to AFEMD a Wing plan and time-phased program reflecting proposed progressive development of the Wing capabilities to meet the mission requirements.

(17) Perform normal Wing staff functions in accordance with the approved organizational Wing structure.

c. AFEMD Field Office, Vandenberg AFB will:

(1) Provide support to the 6594th Satellite Test Wing in the accomplishment of the testing and evaluation mission.

(2) Assist and provide support to the prime and subcontractors of the systems employed.

(3) Perform other specific functions as directed by AFEMD.

d. Lockheed Missile Systems Division will:

(1) As the prime contractor for the development of the DISCOVERER, SAMOS and MIDAS military space systems be responsible for the technical direction of all development activities of the systems.

(2) Conduct test operations under the control of the 6594th Satellite Test Wing.

(3) Be responsible for overall flight test planning.

4. LOGISTICS AND ADMINISTRATION

The 6594th Satellite Test Wing will assume normal Wing administrative and logistics functions locally and for attached units as required. Support will be given by AFEMD when the Wing does not possess this capability. (See Annex G)

5. COMMAND AND COMMUNICATIONS

a, The 6594th Satellite Test Wing activated by ARDC General Order No. 28 dated 3 April 1959, organized at the Lockheed Missile and Space Division Facility, Sunnyvale, California is assigned to ARDC, Administrative and operational control

[REDACTED] [REDACTED]

will be exercised by Detachment No. 2, Headquarters ARDC (Air Force Ballistic Missile and Space Division), until transfer of 6594th STW--personnel and subordinate units to operating commands is directed by Hq USAF.

b. Channels established for AFBMD direction of specific space system development, test and operational training programs emanate from the Assistant Deputy Commander for Military Space Systems. This staff agency has full responsibility for development, test and operational planning and programming of those space systems in which the 6594th Satellite Test Wing is concerned.

c. The 6594th Satellite Test Wing interrelationship with specified development test, operational, training and intelligence agencies will be as outlined in this plan.

O. J. RITLAND
Major General, USAF
Commander

Tab A - Background
Tab B - References

Annex A - Organization and Manpower
Annex B - Test and Evaluation
Annex C - Operational Training
Annex D - Logistics
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Annex G - Wing Hq Administration & Logistics

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TAB - A
BACKGROUND
TO
AFBMD OPERATIONAL PLAN
2-59
(6594TH TEST WING)

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[REDACTED]

[REDACTED] [REDACTED]

TAB A

BACKGROUND

a. The Air Force Ballistic Missile Division, HEDARDC, has been designated as the Executive Manager responsible for design, development testing and evaluation of all USAF military space systems and for maximum participation and support of the Department of Defense, Advanced Research Project Agency (ARPA), and National Aeronautics and Space Agency (NASA) space programs as directed and assigned by HEDARDC. The Deputy Commander for Military Space Systems (Air Force Ballistic Missile Division) is the internal staff agency responsible for the successful achievement of the Air Force Military Space System objectives and the effective management of Air Force development capabilities to support ARPA/NASA space programs, as required.

b. On 17 August of 1956, the Air Force Ballistic Missile Division was designated the Executive Manager for the development of the WS-117L Advanced Reconnaissance System by ARDC System Development Directive No. 117L. The WS-117L Advanced Reconnaissance System is a Satellite Intelligence System whose primary objective was to provide continuous (visual, electronic or other) coverage of USSR and satellite nations for surveillance purposes. The need for timely and continuous intelligence information, to assess a potential enemy's capabilities and probable intent, has become more critical as the advancement of technology has produced offensive weapons with intercontinental range and greater destructive powers. The WS-117L Advanced Reconnaissance System is being designed and developed to provide current, reliable prehostilities intelligence information, which is required to insure proper direction of

[REDACTED] [REDACTED]

national planning in the development of effective counterforce weapons and counterforce strategy. The importance of the successful achievement of this program to our national security cannot be over-emphasized.

c. From August 1956 to the present, the WS-117L Program has been revised and accelerated to achieve its development and operational objectives at the earliest possible date. During this period, the WS-117 Program was placed under the control of ARPA and the program was reoriented to establish the three separate programs of DISCOVERER, SAMOS and MIDAS

d. In October of 1956, the Lockheed Aircraft Corporation was awarded the contract for the WS-117L System. The Lockheed Missile and Space Division (LMSD), Palo Alto, California, was designated by Lockheed as the development and test agency. The LMSD acting for the prime contractor for the development of the DISCOVERER, SAMOS and MIDAS Programs is responsible for the central direction and indoctrination of all activities of the development programs under the direction of AFEMD. Complete coverage of each program is contained in the AFEMD Space System Development Plans, which are referred to in Tab B.

e. Implementation of proven AFEMD technical management policies and techniques resulted in the establishment of an AFEMD Field Office at Palo Alto, California, on 15 August 1958. This office was established as the liaison office for AFEMD/LMSD development management activities and to participate in AFEMD/LMSD test operations for the DISCOVERER, SAMOS and MIDAS Programs. On 6 April 1959, at the direction of Hq USAF, Hq ARDC activated the 6594th Satellite Test Wing at Palo Alto under General Order No. 28. This Wing organization was activated to satisfy the requirement for the achievement of a military operational capability with the SAMOS/MIDAS system at the earliest possible date. Responsibilities and personnel of the AFEMD Field Office were retained in the 6594th STW

2

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TAB A
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[REDACTED] [REDACTED]

upon its activation. The 6594th STW organizational structure, referred to in Annex A, consists of those organization elements which were a part of the AFEMD Field Office/IMSD test operations locations for DISCOVERER and new organizational elements required to develop, operate and maintain the SAMOS/MIDAS system.

d. A chronological listing of events follows:

(1) Hq USAF General Operational Requirement No. 80, dated 15 March 1955, and revised 26 September 1958, with four addendums (80-1, 80-2, 80-3 and 80-4) established the requirement for the development of an advanced reconnaissance system which would use an unmanned space vehicle as a carrier for essential data gathering equipment. It was intended that this capability would satisfy both national and Air Force reconnaissance requirements.

(2) On 17 August 1956, ARDC System Development Directive No. 117L was issued to AFEMD, and the development and test contract for WS-117L was awarded to Lockheed Aircraft Corporation in October 1956.

(3) In January 1958, the WS-117L program was augmented by a THOR booster program to permit early achievement of an orbital capability. This program was later established as the DISCOVERER program by ARPA Order No. 48-59 dated 16 September 1958.

(4) On 30 June 1958, policy guidance and technical control of WS-117L development was assigned to the Department of Defense Advanced Research Projects Agency (ARPA) by ARPA No. 9-58.

(5) On 5 November 1958, ARPA Order No. 38-59 separated the infrared development from the WS-117 SAMOS program and established it as the Missile

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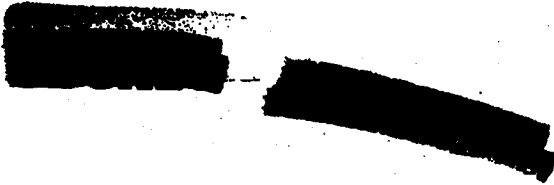
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Defense Alarm System (MIDAS). The Lockheed development contractor was assigned to the Lockheed Missile and Space Division, Palo Alto, California.

(6) In August 1958, the AFEMD Field Office was activated at Palo Alto as the liaison office for AFEMD/LMSD development management activities and also to participate in LMSD test operations for the DISCOVERER, SAMOS and MIDAS.

(7) In April 1959, this Field Office formed the nucleus of the 6594th Satellite Test Wing, which was activated by General Order No. 28, dated 3 April 1959, at the direction of Hq USAF to satisfy the requirement for the achievement of a military operational capability with the SAMOS/MIDAS system at the earliest possible date.



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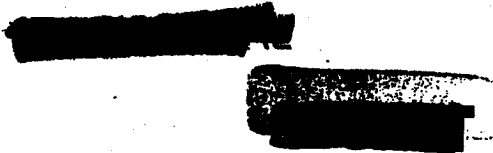
REFERENCES

TO

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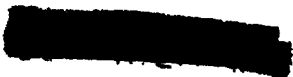
REFERENCES

1. SPACE SYSTEM DEVELOPMENT PLANS
 - DISCOVERER PROGRAM -----dated 20 April 1959
 - SAMOS PROGRAM-----dated 15 November 1959
 - MIDAS PROGRAM-----dated 15 November 1959
2. AMC LOGISTICS PLAN
 - SAMOS PROGRAM-----dated 15 November 1959
 - MIDAS PROGRAM-----dated 15 November 1959
3. PRELIMINARY OPERATIONAL PLANS
 - SAMOS PROGRAM (SAC)-----dated 15 November 1959
 - MIDAS PROGRAM (ADC)-----dated 15 November 1959
4. 6594TH SATELLITE TEST WING MISSION STATEMENT---dated 29 October 1959





ANNEX A
MANPOWER AND ORGANIZATION
TO
AFBMD OPERATIONAL PLAN
(6594TH TEST WING)



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ANNEX A

1. ORGANIZATIONAL CONCEPT

a. The 6594th Satellite Test Wing and subordinate units activated to operate and maintain the SAMOS/MIDAS system will initially be under the operational control of ARDC and will be identified by ARDC numerical designations. For planning purposes, the tentative transfer date for the operational system and associated facilities and operational units for the SAMOS program is established as 1 July 1962, and for the MIDAS program as 1 January 1963. Subsequent to these dates certain 6594th STW headquarters personnel and SAMOS/MIDAS assigned units will be transferred from ARDC to the using commands. Those personnel who have been identified primarily with the R&D program will remain with ARDC. At this time AFEMD field units will be established at each location and will be responsible for carrying on the remaining R&D installation, checkout and field testing, as well as supervision of all contractor activities associated with the R&D program.

2. GENERAL

a. The 6594th Satellite Test Wing will command and control the following SAMOS units during the period the Wing and subordinate units are assigned to ARDC:

- (1) 6594th Recovery and Control Group
- (2) 6594th Launch Squadron
- (3) 6594th, 6595th, 6596th Instrumentation Squadron
- (4) 4999th Data Processing Squadron

b. The 6594th Recovery and Control Group will exercise command control over the:

- [REDACTED]
- (1) 6593rd Test Squadron
 - (2) 6593rd Instrumentation Squadron

c. Subordinate units proposed for the MIDAS program which will be under command and control of the 6594th Satellite Test Wing during the period the Wing and subordinate units are assigned to ARDC are:

- (1) 6599th Instrumentation Squadron (N. Atlantic)
- (2) 6598th Instrumentation Squadron (United Kingdom)
- * (3) 6597th Instrumentation Squadron (Alaska)
- (4) MIDAS augmentation (6595th Instrumentation Sq.), Ottumwa, Iowa.

* The 6599th Instrumentation Squadron will be manned initially by ADC during July-September 1962.

d. The 6594th Launch Squadron will be responsible for accomplishing actions necessary to receive, inspect, checkout, launch, boost, guide, and adjust into orbit the satellite vehicles. It will be responsible for assembly, inspection, pre-flight and maintenance of all boosters and payloads and operation and maintenance of all GSE/GOE equipment, and will record and evaluate required systems performance data for both SAMOS and MIDAS systems.

e. The 6594th, 6595th and 6596th Instrumentation Squadron will track, acquire and receive reconnaissance data from the satellite for transmission to the Space Operations Control and will direct the T & A stations in control of the satellites. Organizational and field maintenance capabilities, as well as AFW supply support will be integral parts of the squadrons.

f. The 6597th, 6598th and 6599th Instrumentation Squadrons will operate and maintain the readout stations of the MIDAS space systems. These squadrons

[REDACTED]

will be capable of continuously acquiring data from at least two satellites simultaneously, process necessary quality control and alarm data to the MIDAS Operations Center, interrogate and transmit commands to satellites in emergency conditions.

g. The Space Operations Control for the SAMOS system is operated by elements within the 6594th STW headquarter organization. The SOC will accomplish launch commands, space vehicle adjustment commands, quality control monitoring and space vehicle mission control on SAMOS satellite vehicles.

h. The MIDAS Operations Control is co-located with the SOC at Offutt AFB to receive, analyze, display, and relay MIDAS raw data. It states technical and scheduling requirements to the SOC for coordination and integrated operation of the launch, orbital injection, orbit computations and technical instructions of MIDAS/SAMOS. The MOC has responsibility for receiving and sending all information to remote readout stations, and for control of these stations. The MIDAS Operations Center will have elements of direction, coordination, data display, analysis, communication and maintenance. It is assumed that the MOC will be operated by elements of the Wing headquarters in the same manner as the SOC.

i. The 4999th Data Processing Squadron will be responsible for the compiling, processing and reproduction of critical intelligence data received from the reconnaissance subsystems and for distribution to using agencies.

3. ORGANIZATION (U)

The organization of the 6594th Satellite Test Wing and subordinate units

[REDACTED]

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will be standardized to the maximum extent, consistent with the operational concept and support requirements of the various subsystems. The organizational structure of each specific unit will be established by its manning document. Organizational charts for the Wing and its subordinate units are contained in Appendix I of this Annex.

4. WING STRENGTHS

a. As of 15 November 1959, and as reflected in each Unit Manpower Requirement Table, the following strength figures are provided (SAMOS only).

UNIT

✓ 6594th Test Wing	Sunnyvale, Calif	4 Apr 59	165	276	29	470
✓ 6594th Launch Sqdn	VAFB, Calif	1 Jun 59	35	253		288
✓ 6594th Inst. Sqdn	Grenier AFB, N.H.	1 Oct 59	33	239		272
6595th Inst. Sqdn	Ottumwa, Iowa	1 Jul 59	33	239		272
Support Augmentation			19	111	96	226
✓ 6596th Inst. Sqdn	VAFB, Calif	1 Jul 59	33	239		272
4999th Data Proc. Sqdn	Omaha, Nebr	1 Jul 59	202	499		701
6594th Rec & Control Gp	Hawaii	1 Nov 59	13	11	2	26
✓ 6593rd Inst. Sqdn	Hawaii	1 Nov 59	25	226		251
✓ 6593rd Test Sqdn	Hawaii	1 Jul 58	32	85		117
			559	2141	127	2827

b. Preliminary manpower requirements information for MIDAS is included for informational purposes. This information is tentative only. Valid MIDAS organizational and augmentation manpower requirements will be reflected in the USAF approved UMD's for these units:

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(1) Alaska Readout Station.

Manpower requirements for the Alaska Readout Station was based on a 24 hour operation of the following equipment: 2 UHF Data Receivers, 1 Angle Tracker and 1 Command Transmitter. Manpower requirements for this station are as follows:

- .121 Operator/Maintenance Crew personnel
 - 91 Bench Maintenance personnel
 - 80 SQD Supervisory, Supply, Training, Communications and Administrative personnel.
-
- 220 Total SQD strength

[REDACTED]

[REDACTED]

[REDACTED] [REDACTED]

(3) Ottumwa Readout and Calibration Station

(a) Manpower requirements for the MIDAS augmentation of the Ottumwa station was based on a 24-hour operation of the following equipment: 1 Data Processing Facility, 2 UHF Data Receivers, 2 Angle Trackers and 2 Command Transmitters. 6595th Instrumentation Squadron MIDAS augmentation personnel requirements as follows:

135	operator/maintenance crew personnel
15	Bench Maintenance personnel
13	AFW Supply personnel
<hr/>	
163	Total Augmentation required

(b) When the MIDAS facility transitions from the R&D to operations, and if it is decided to place the MIDAS augmentation under the command jurisdiction of ADC, an additional 18 manpower spaces would be required for separate command and administration.

[REDACTED]

(4) N. Atlantic Readout Station

N. Atlantic Readout Station manpower requirements can be assumed to be the same as the Alaska and U.K. stations. Manning of this instrumentation squadron (6599th) will not be programmed by ARDC, as the current tentative activation mid-calendar year 1962 date permits manning by the using command (ADC).

(5) SOC/MOC

(a) Manpower spaces were computed with the SOC and MOC co-located. By co-locating the facilities the following MIDAS manpower augmentation requirements were adopted:

15	Data Evaluation and presentation console OPRS (presenting authorized in the SOC)
33	Auto Control and MIDAS Ops analysis (presently auth. in the SOC)
25	MIDAS ops, Data controller and presentation console OPRS (new spaces)
<u>73</u>	Total MIDAS requirements

(b) The 48 spaces presently authorized in the SOC will be identified as MOC spaces. A new requirement will be submitted for an additional 25 spaces.

(c) Administrative and command spaces needed to manage the 73 man MOC will be submitted by ADCCat a later date.

(6) NE And NW Tracking Station

(a) The QPRI did not indicate a requirement for MIDAS augmentation of these stations. Therefore, no additional manpower requirements were computed. Lockheed representatives indicated that some R&D MIDAS equipment