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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: AFBMD 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 AFBMD 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 AFBMD during the week 9-13 November 1959. These changes are:

Old Title	New Title
Development Control Center (DCC)	Satellite Test Center (STC)
Technical Operations Control Center (TOCC)	Space Operations Control (SOC)

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[redacted]

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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WDZSO-207

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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 actuated 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 AFBMD/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 AFBMD (ARDC).

[redacted] [redacted]

[redacted] [redacted]

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Appendix 4 Inspection & Security

Appendix 5 Medical

Appendix 6 Information Services

Appendix 7 Personnel

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D R A F T

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

OPERATIONAL PLAN

15 November 1959

Serial No. AFBMD 2-59

TASK ORGANIZATION

AFBMD

6594TH TEST WING AND SUBORDINATE UNITS

AFBMD FIELD OFFICES

LOCKHEED MISSILE SYSTEMS DIVISION

1. SITUATION

a. Current

AFBMD 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 AFBMD Field Test and Military Operational Organization in these programs, will be required to develop its capabilities to effectively accomplish that portion of the AFBMD 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 AFBMD's responsibilities for current and other USAF development and operational space programs and ARPA/NASA space projects.

[redacted]

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 AFBMD 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 AFBMD 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]

and/or phase-in of the programs can be accomplished. Statements of responsibilities and relationship of the Wing with AFBMD/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 AFBMD/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/AFBMD (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]

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 AFBMD directives.

b. Execute development test and evaluation programs in support of the DISCOVERER, SAMOS and MIDAS programs to the extent specified in appropriate AFBMD 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.

[redacted]

(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 AFBMD.

(3) Participate and support DISCOVERER, SAMOS and MIDAS development test and evaluation programs to the extent specified in AFBMD test directives.

(4) Participate and assist AFBMD 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 AFBMD 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 ppppropriate AFBMD directive.

(6) Participate to the maximum in AFBMD/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 AFBMD 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 AFBMD 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 AFBMD 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 AFBMD 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 AFBMD 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 AFBMD in the establishment and preparation of logistical concepts and requirements for the SAMOS and MIDAS systems to include WSEOL, 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 AFBMD 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 AFBMD directives.

[redacted] [redacted]

[redacted]

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

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

c. AFBMD 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 AFBMD.

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 AFBMD 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]

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
Annex E - Communications
Annex F - Installations
Annex G - Wing Hq Administration & Logistics

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DRAFT

TAB - A

BACKGROUND

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

WDZSO-207

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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 AFBMD. Complete coverage of each program is contained in the AFBMD Space System Development Plans, which are referred to in Tab B.

e. Implementation of proven AFBMD technical management policies and techniques resulted in the establishment of an AFBMD Field Office at Palo Alto, California, on 15 August 1958. This office was established as the liaison office for AFBMD/LMSD development management activities and to participate in AFBMD/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 AFBMD Field Office were retained in the 6594th STW

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upon its activation. The 6594th STW organizational structure, referred to in Annex A, consists of those organization elements which were a part of the AFBMD Field Office/LMSD 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 AFBMD, and the development and test contract for WS-117L was awarded to Lockheed Aircraft Corporation in October 1956.

(3) In January 1959, 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

[redacted]

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 AFBMD Field Office was activated at Palo Alto as the liaison office for AFBMD/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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TAB - B

REFERENCES

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

[redacted]

[redacted] [redacted]

TAB - B

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

[redacted]

[redacted]

[redacted]

[redacted]

ANNEX A

MANPOWER AND ORGANIZATION

TO

AFBMD OPERATIONAL PLAN

(6594TH TEST WING)

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WDZSO-207

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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 AFBMD field units will be established at each location and will be repponsible 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]

[redacted]

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:

[redacted]

[redacted]

(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
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]

[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)
73	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

[redacted]

[redacted]

[redacted]

would be installed at the NE (New Boston) tracking station and that the NE station would be used for training MIDAS crews. Since no positive guidance was available, it was assumed that any R&D MIDAS equipment installed in the New Boston station would be contractor operated and maintained.

5. MANPOWER

a. In order to properly maintain identification of R&D test and evaluation personnel and operational type personnel within the Wing Headquarters, an organizational structure has been established with a "Deputy Commander for Space Systems Operations" which includes the operation and training functions; and a "Deputy Commander for System Development Test", responsible for test and evaluation functions.

b. Upon receipt of a Headquarters USAF directive, the operational staff of the Wing Headquarters and subordinate organizations will be transferred from ARDC control to the using Commands. This transfer date has been established as 1 July 1962 for SAMOS , and 1 January 1963, for MIDAS.

6. PERSONNEL PHASING

Personnel phasing will be accomplished in accordance with manpower requirements tables, for each unit concerned, and will be reflected by quarters of the fiscal years. This phasing is established to satisfy all training, support, operational and development schedules.

7. UNIT MANNING DOCUMENTS

a. General

(1) AFBMD will be responsible for initially developing proposed unit manning documents for the 6594th Satellite Test Wing and its subordinate units.

(2) All SAMOS/MIDAS unit manning documents will be developed and

[redacted]

revised as often as necessary to reflect changes in operational concepts and equipments. Revisions will be forwarded to Hq USAF, and to all commands and staff agencies concerned. Changes in unit manning documents will be immediately reflected in Phase I, factory special course training requirements (AFR 50-9).

b. Development of Unit Manning Documents

(1) The SAMOS/MIDAS unit manning documents have been developed based on the information described below:

(a) Source of Information

(1) Qualitative personnel requirements information reports.

(2) The USAF revised list of tentative Air Force specialties.

(3) Reprogramming training conferences at contractor's facilities.

(4) All planning documents which outline installations and operational concepts.

(5) Air Force Manual 26-1 which describes manpower criteria and policy.

(6) Air Force Manuals 35-1 and 36-1.

(2) Manpower Planning Factors. The basic factors determining manpower requirements in SAMOS/MIDAS units are summarized below:

(a) The "Operator/Maintenance" concept is applied throughout all units in order to conserve manpower spaces.

[redacted]

(b) The operating elements of the Wing Headquarters, Instrumentation Squadrons and Data Processing Squadron, will be manned on a 24-hour, 7 day week basis. Bench maintenance activities will be manned on an 8-hour, 5 day week basis .

(c) The launch squadron must be manned to support complex 567A. Vandenberg AFB and Launch Complex #2, Point Arguello, plus associated assembly facilities. The initial concept of maintenance and launch responsibilities for this unit is that boosters and satellites will be received, inspected, checked out and prepared for launch in the SMAB by both bench maintenance and booster/satellite crew personnel. The booster/satellite will then be taken to the launch complex where it will be inspected, erected, checked out, counted down and launched by booster/satellite crews asserted by launch complex maintenance personnel. Normal working hours, except during the launch phase will be on an 8 hour, 5 day week basis. (Launch and refurbishing tasks will be accomplished by AMC.).

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APPENDIX I - 6594TH TEST WING

ORGANIZATIONAL CHARTS

ANNEX A

MANPOWER AND ORGANIZATION

TO

AFBMD OPERATIONAL PLAN

(6594th Test Wing)

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WDZSO-207

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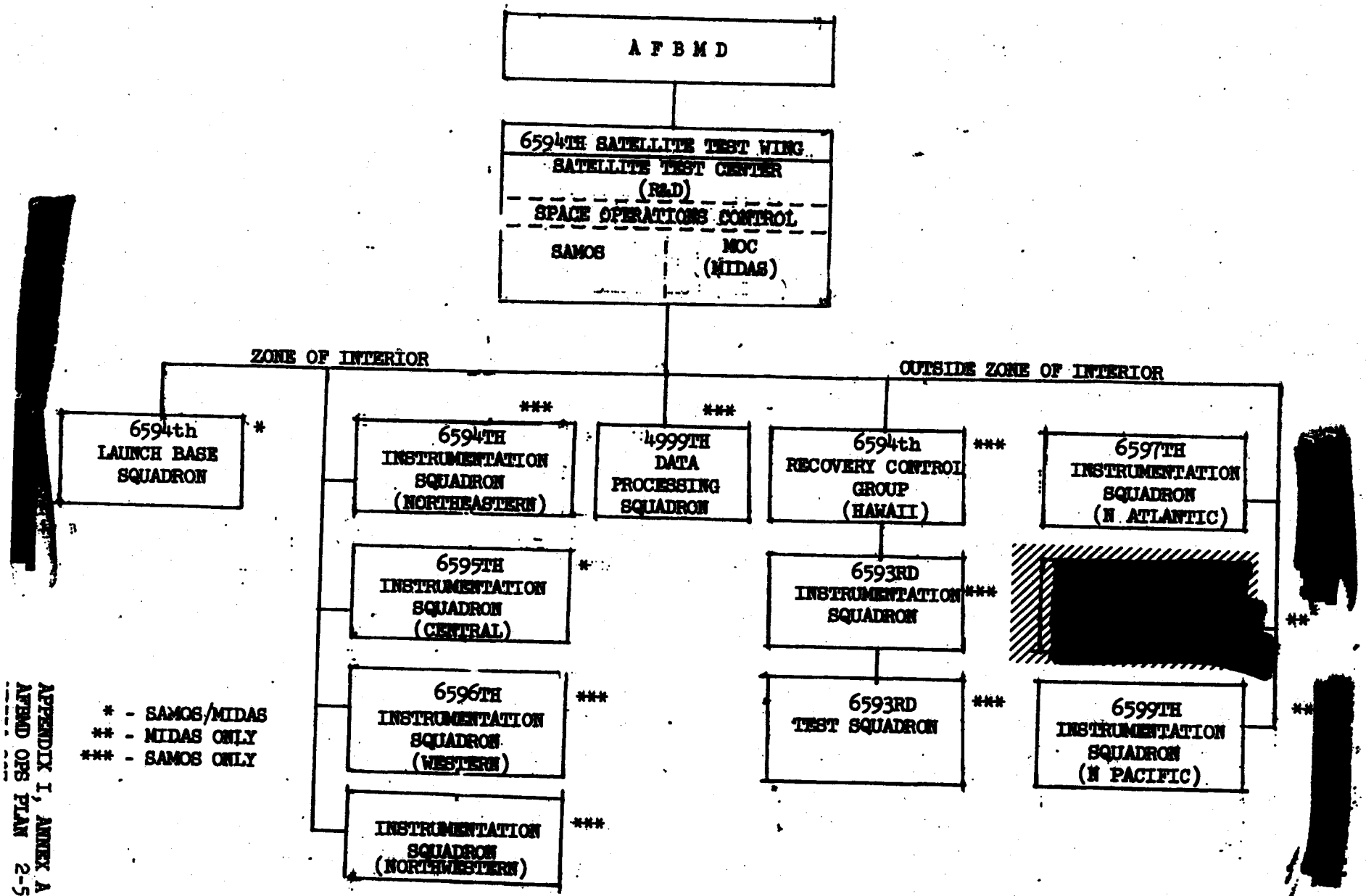
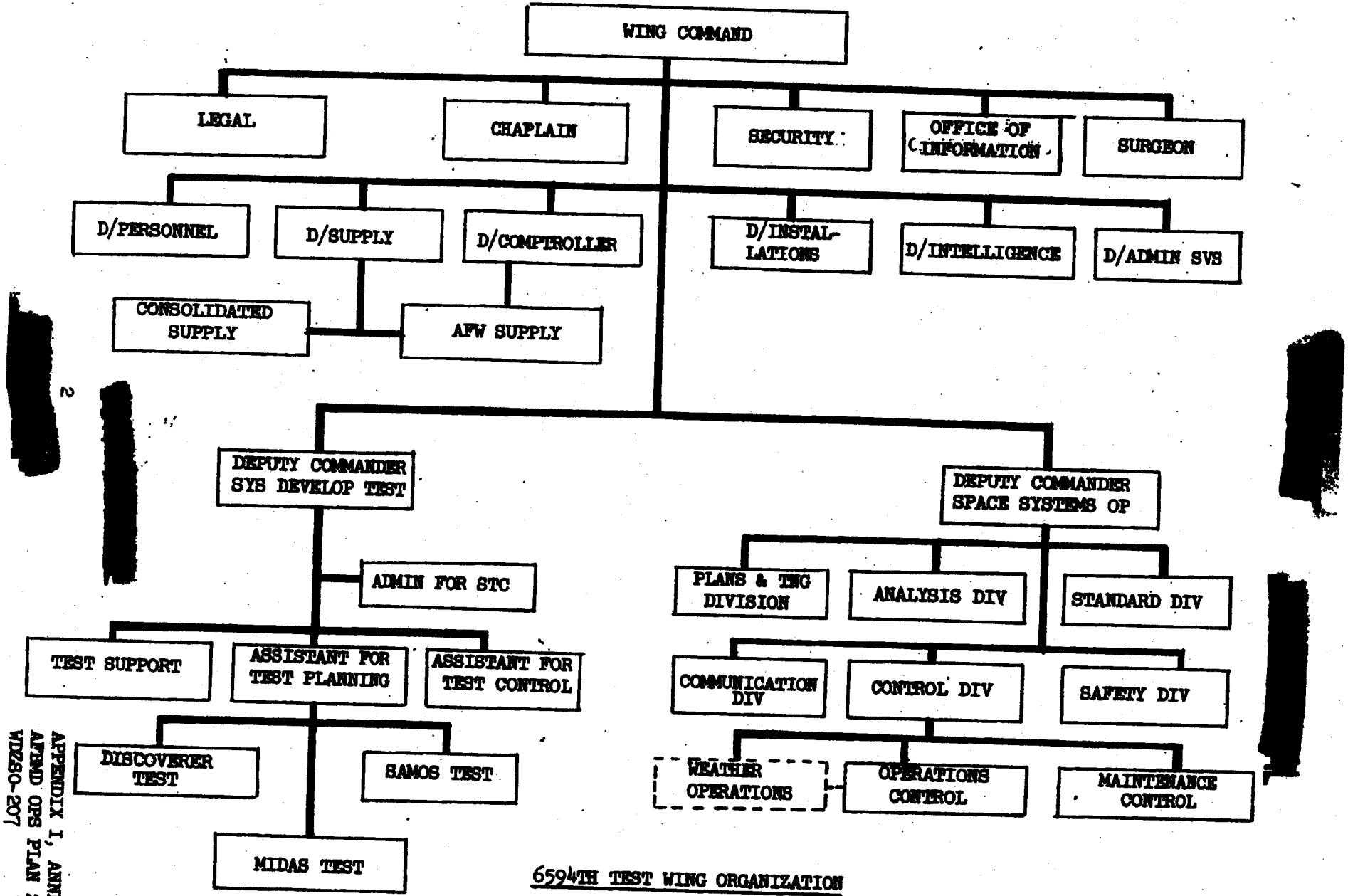


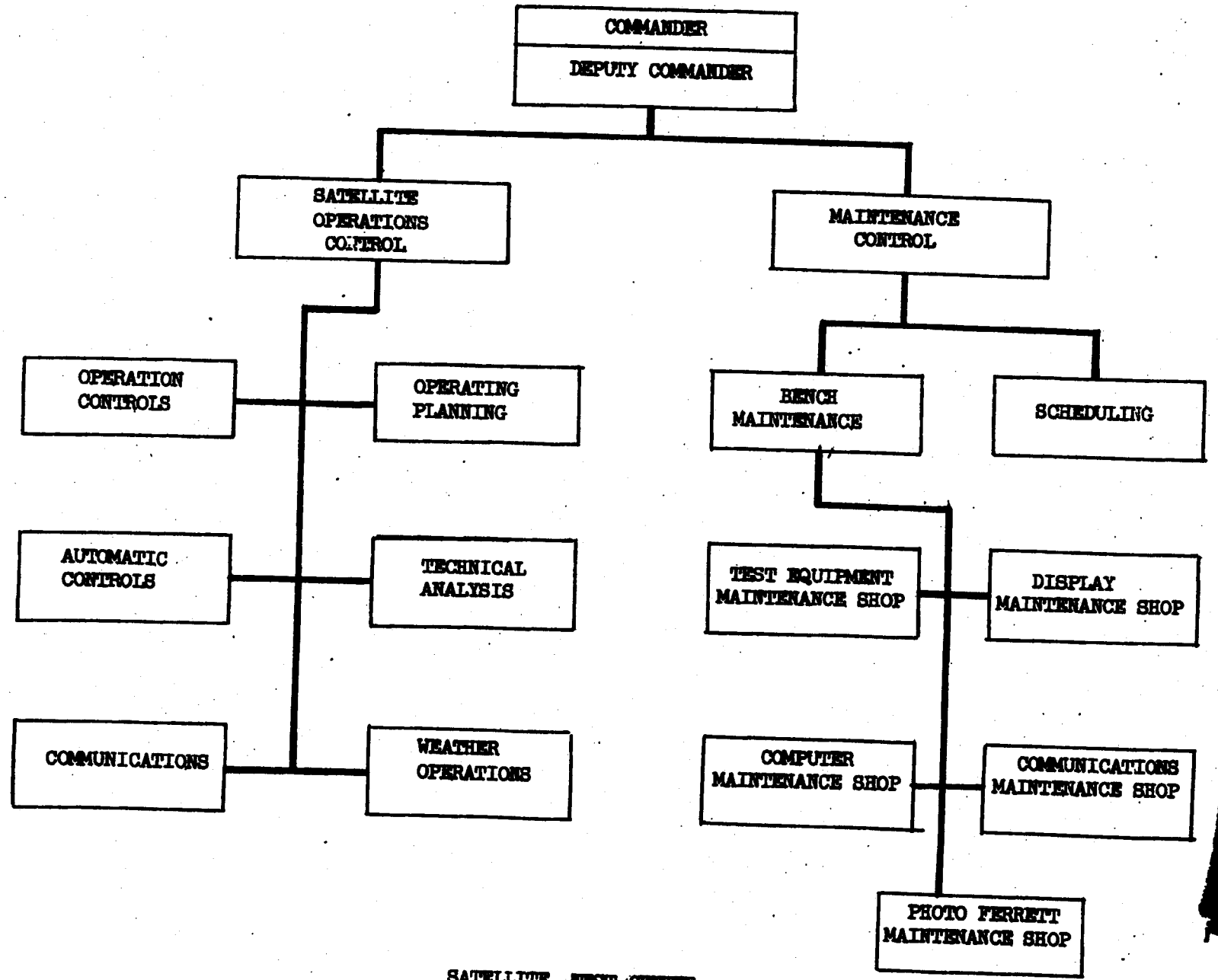
APPENDIX I, ANNEX A
AFBMD OPS PLAN 2-59

Proposed Structure of SAMOS/MIDAS Organizations



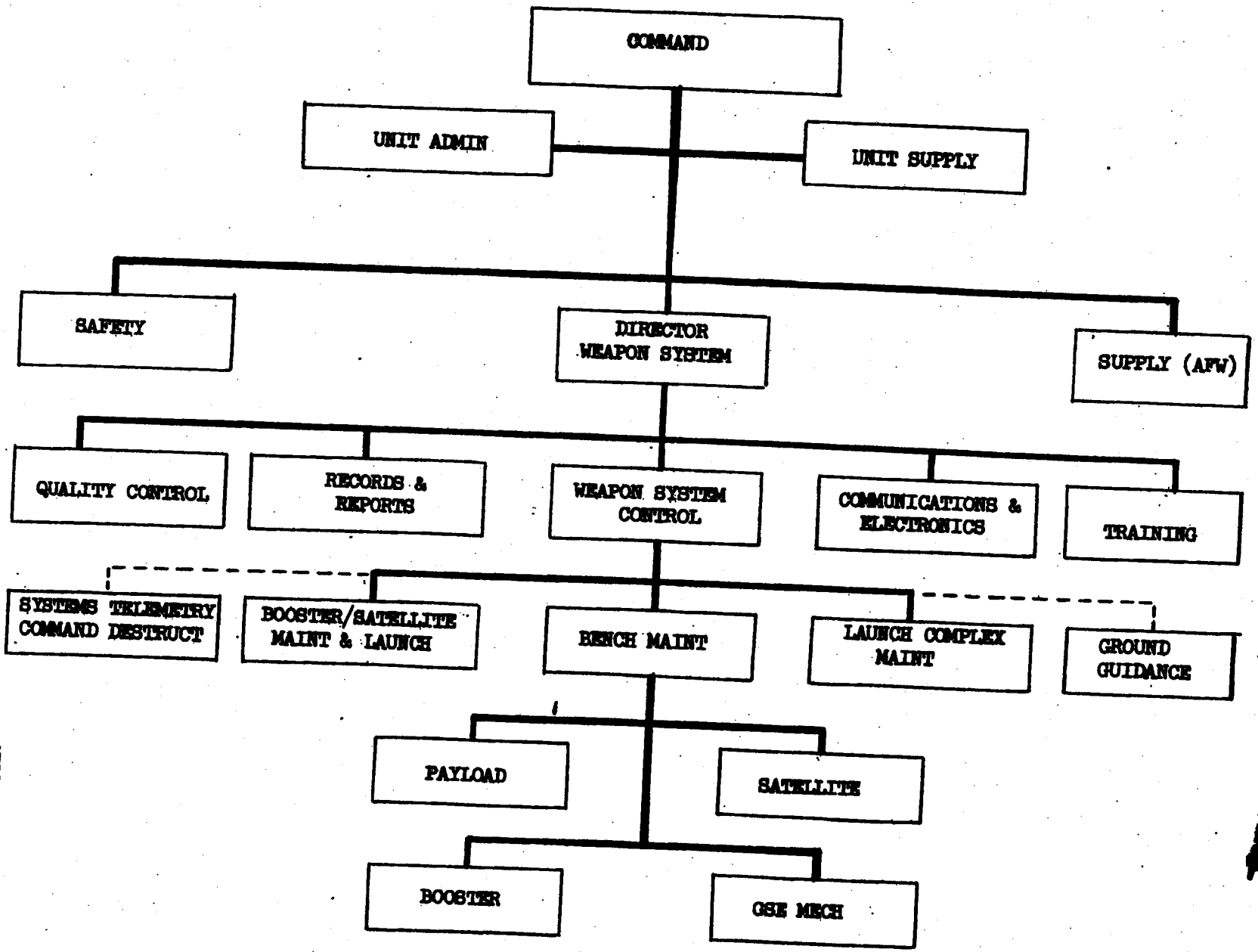
6594TH TEST WING ORGANIZATION

APPENDIX I, ANNEX A
AFSWD OPS PLAN 2-59
WDZSO-207

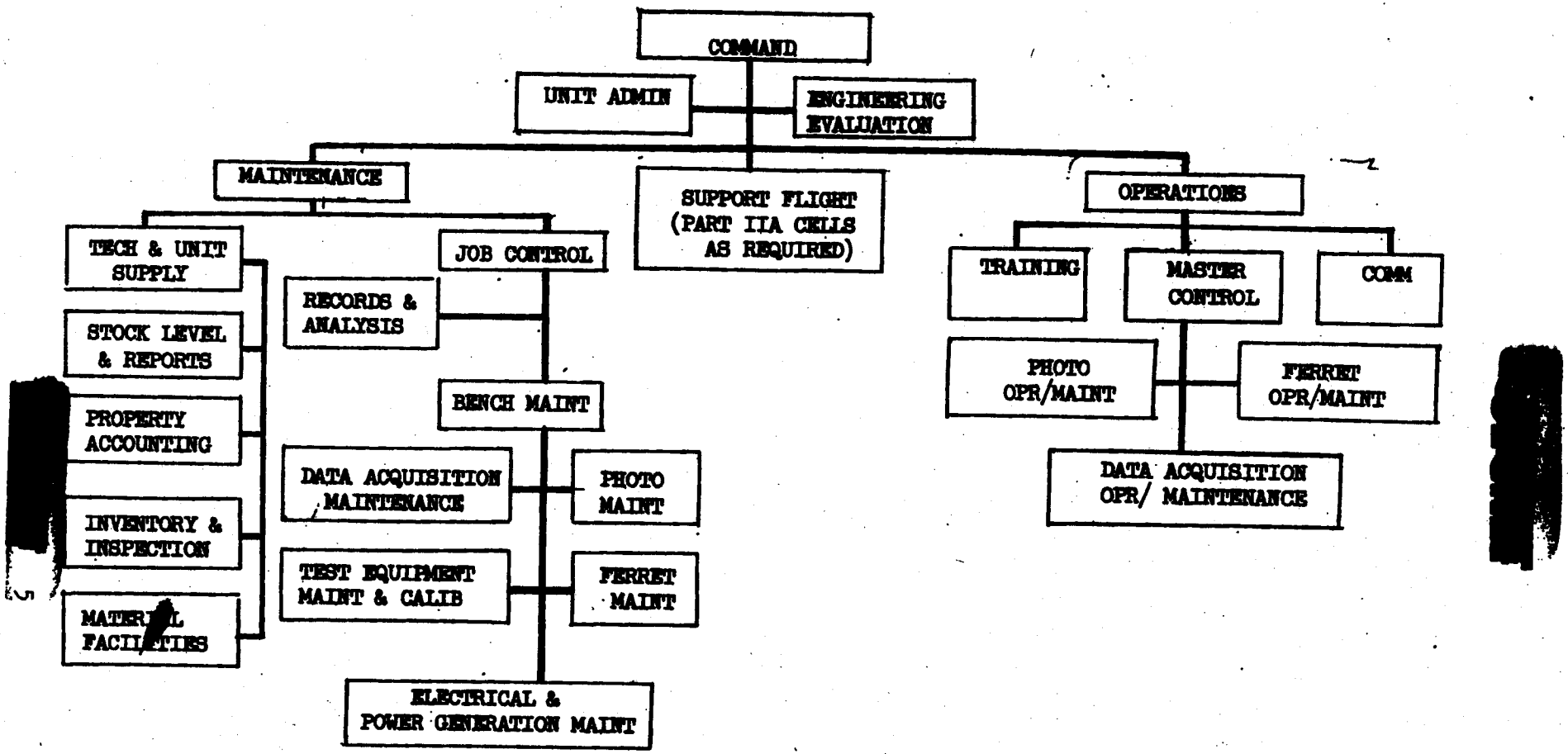


SATELLITE TEST CENTER

APPENDIX I, ANNEX A
AFBMD OPS PLAN 2-59
WDZSO-207

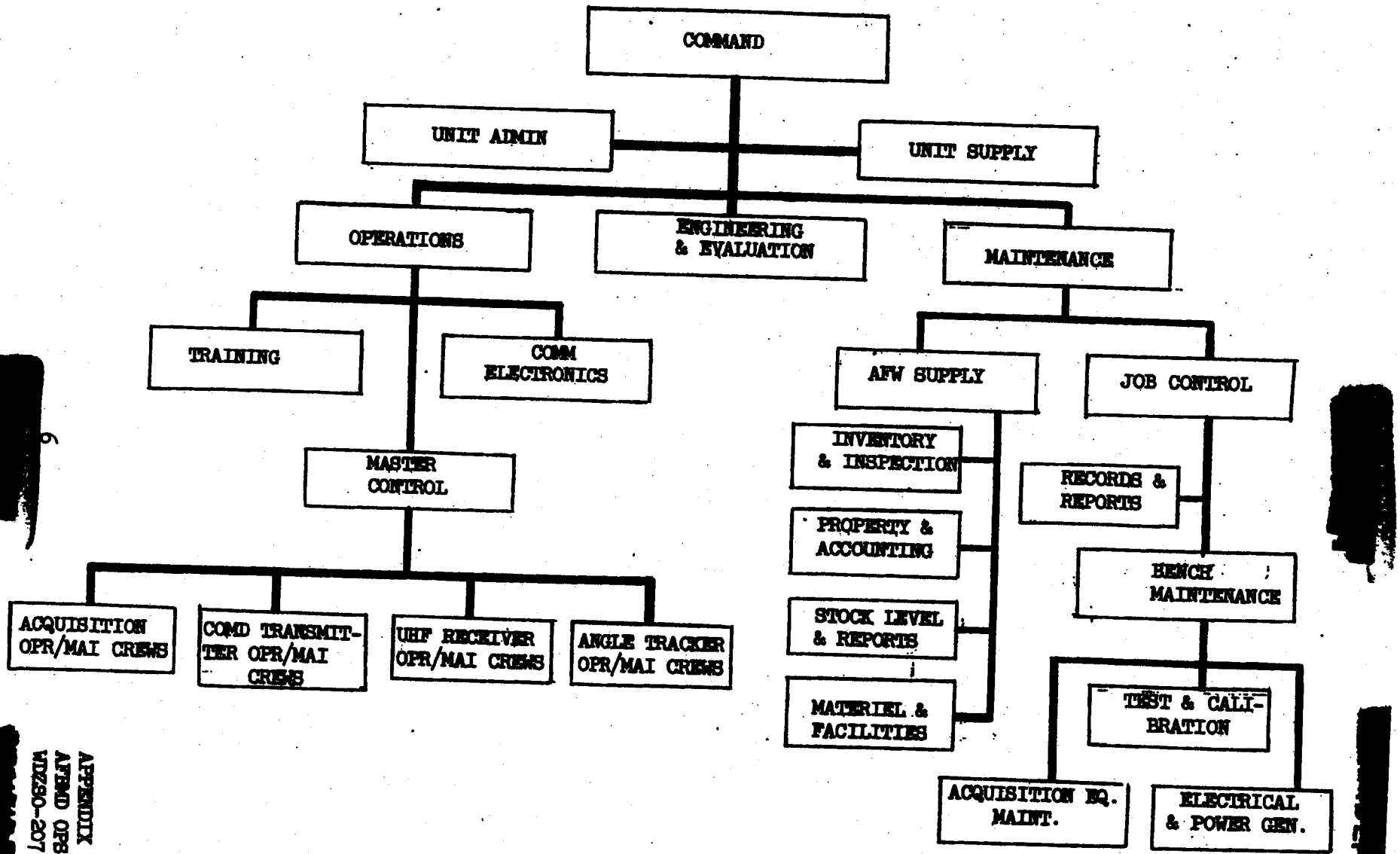


6594TH LAUNCH SQUADRON ORGANIZATION



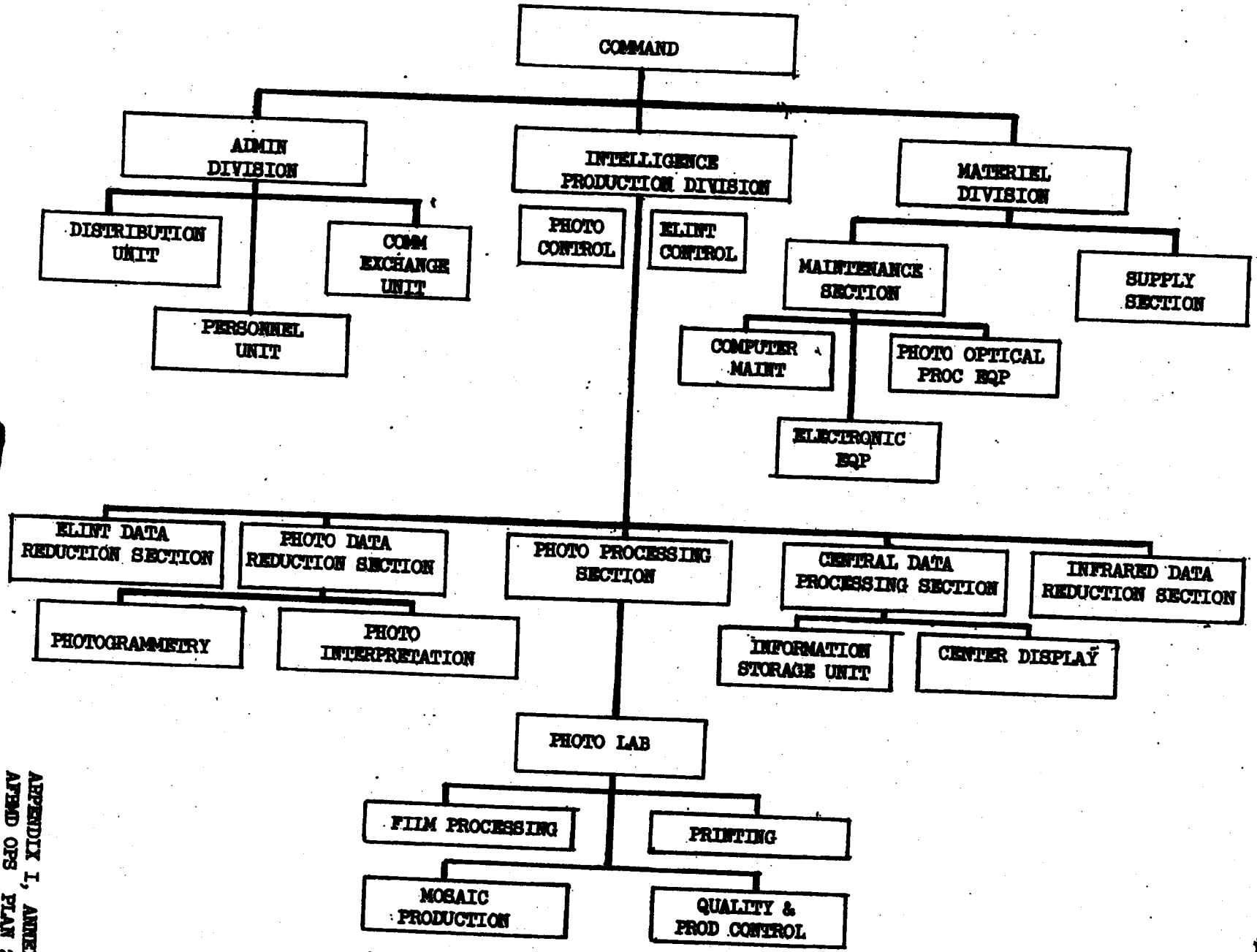
ORGANIZATION --- INSTRUMENTATION SQUADRONS (SAMOS)

APPENDIX I, ANNEX A
AFBMD OPS PLAN 2-59
WDZSO-207



ORGANIZATION - MIDAS INSTRUMENTATION SQUADRONS

APPENDIX I, ANNEX A
AFBMD OPR PLAN 2-59
WDZSO-207



4999th DATA PROCESSING & CONTROL SQUADRON ORGANIZATION

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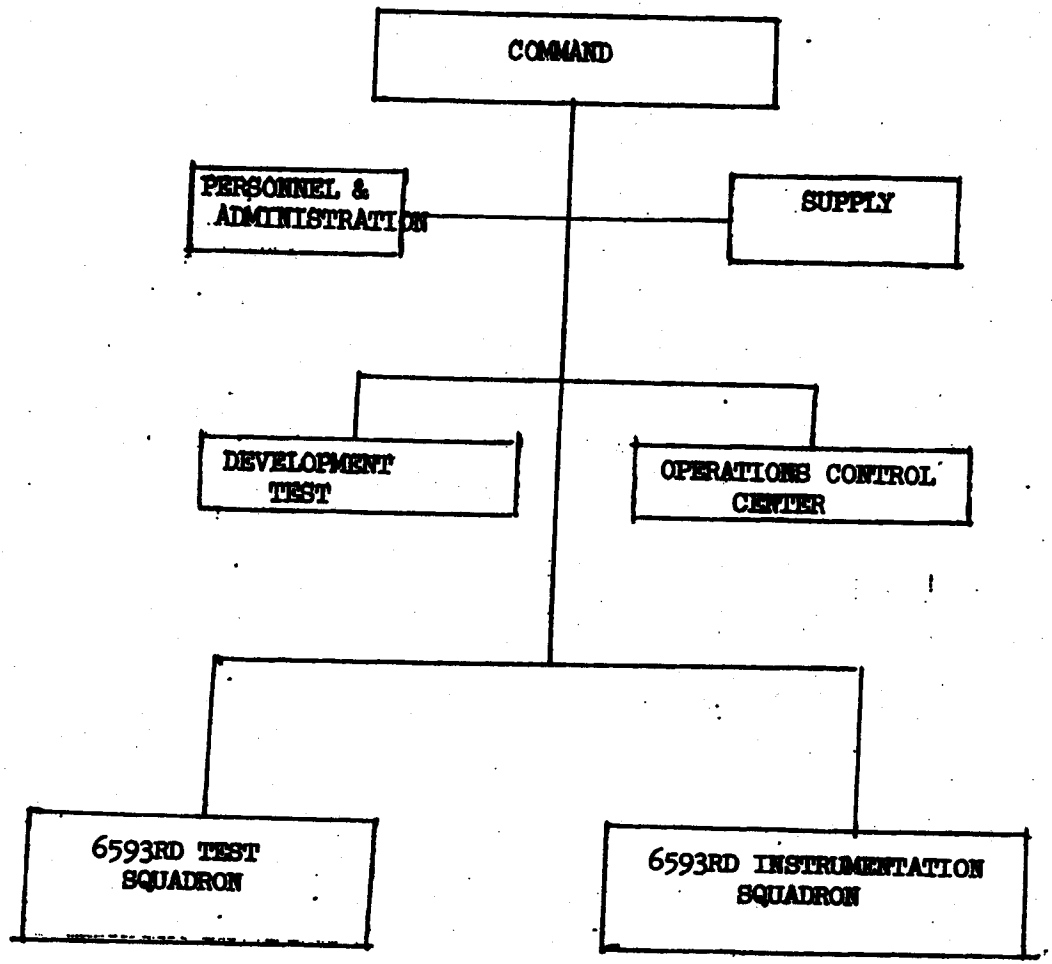
APPENDIX I, ANNEX A
AFMD OPS PLAN 2-80
MAR80-207



6594TH RECOVERY & CONTROL GROUP ORGANIZATION.

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APPENDIX I, ANNEX A
AFBMD ORB PLAN 2-59
WDZSO-207

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ANNEX B

TEST AND EVALUATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

[redacted] [redacted]

[redacted]

ANNEX B

1. GENERAL

a. The current military space systems development programs in which the 6594th Satellite Test Wing are concerned include the DISCOVERER, SAMOS, and MIDAS. Development planning for the Communications Satellite program establishes a requirement for utilizing ground tracking facilities of the SAMOS system which will require 6594th STW coordination and support. A brief description of each system follows:

2. DISCOVERER

a. This program was originally established by ARPA Order No. 48-59, dated 16 December 58, and extended by ARPA Order No. 17-59, dated 4 September 59, to provide a total of twenty-nine (29) DISCOVERER flights. The purpose of this program was to develop a Satellite Research System for making scientific observations, using earth satellite as a platform for detecting, measuring and transmitting significant scientific data to ground based stations. This program is one of progressive improvement whose goal is to continually increase the capabilities and useful life span of the satellite so that increasingly advanced scientific experiments may be conducted.

b. The DISCOVERER system is composed of a satellite vehicle developed by LMSD, the THOR booster developed by Douglas Aircraft Corporation, and required launch facilities, tracking facilities, a complex communications and data processing network, with related facilities and a recovery force. Though the system is designed for a transmitting capability, using telemetering as the readout medium, recovery of the satellite is a requirement to obtain all useful scientific data accumulated during the orbital observations.

[redacted] [redacted]

c. Launching of these vehicles are conducted at Vandenberg AFB, California, with test control emitting from a central control point (Satellite Test Center, at Sunnyvale, California) (STC). Tracking facilities are located at Vandenberg AFB, California; Annette, Alaska; Kodiak, Alaska; Kaena Pt., Oahu, Hawaii; and Point Magu, California. The recovery force is located in Hawaii.

d. The Test Organization for the DISCOVERER program is under the overall management of AFBMD, with LMSD performing technical direction of the development program. In accordance with ARDC regulation, the DISCOVERER Program Office, AFBMD exercises technical test control which is performed by the Deputy Commander for Test Operation 6594th STW during the test planning phase and flight test operations. Test operations are executed by LMSD and DAC under the control of Deputy Commander for test operations, 6594th STW.

3. SAMOS

a. This program was established under ARDC System Development Directive No. WS-117L, dated 17 August 1956, and revised under subsequent ARPA Order No. 48-59, dated 16 September 1958. The development objective for this system is to provide a satellite reconnaissance system capable of providing reconnaissance information which can be integrated into the USAF Intelligence Data Handling System and disseminated to operational military agencies.

b. The SAMOS system is composed of the satellite vehicle (LMSD), the ATLAS ICBM booster (Convair), launch facilities, tracking facilities, a complex communications and data processing network, and a recovery force. This system will be designed to have a readout capability, however, to meet the stringent requirements, a recovery payload will also be provided.

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The reconnaissance systems are visual, using sophisticate air photographic techniques, and an electronic intelligence ferrett system.

c. The responsible agency for overall flight test direction and planning is LMSD. Pre-flight checkout responsibility will be shared by LMSD and Convair Astronautics for their respective vehicles and equipment. SAMOS system test control will be vested in the STC under Deputy Commander for Test Operation, 6594th STW.

4. MIDAS

a. This program was initially established under the ARDC System Development Directive No. WS-117L, 17 August 1956, as a sub-system "G" of the WS-117L system. On 5 November 1958, ARPA Order No. 38-59, expanded this development effort into a Missile Defense Alarm System (MIDAS). The objective is to develop an infrared reconnaissance system which is compatible with the Ballistic Missile Early Warning System (BMEWS), and it is proposed to employ these systems as the Air Force ICBM Early Warning System.

b. The MIDAS system will be employed, utilizing those tracking and complex communication and data processing networks established for the SAMOS system with added MIDAS equipment necessary to support the MIDAS functions. Recovery operations will not be required. Three additional readout stations will be required and current planning locates these stations in North Atlantic, Alaska [redacted] Launch facilities for the MIDAS development and operational programs are programmed as Pt Arguello Launch Complex #2.

c. This development test program for MIDAS will be conducted in a similar manner as the SAMOS tests with operational supervision and control directed from the STC, by Deputy Commander for Test Operations, 6594th STW. In this program, initial R&D flights will be conducted from both AFMTC and

[redacted]

Vandenberg AFB.

5. COMMUNICATIONS SATELLITE

a. ARPA Order No. 54-59 authorized a four (4) launch R&D flight test program as the first phase of the development of an operational communication satellite capability. The purpose of this program was to develop a SAC Communications Satellite System by injecting and maintaining a group of satellite vehicles in a 5600 nautical mile polar orbit starting in the 1961-62 time period.

b. The Communication Satellite System will utilize the tracking and control facilities developed for the SAMOS/MIDAS Systems to the maximum extent possible during the development and prehostilities phase. Operation and employment of the system will require compatible ground communications installations at Offutt AFB, Westover AFB, Barksdale AFB, and March AFB, and compatible communications equipment for SAC manned aircraft.

c. The test organization for the Communications Satellite Program is in the process of being developed. The responsibilities of the 6594th Satellite Test Wing in this program will be defined as soon as the Communications Satellite development and test plans are published as approved documents.

6. PERSONNEL SUB-SYSTEM DEVELOPMENT TEST

(TEST FOR OPERATIONAL EMPLOYMENT)

a. The responsibility for the establishment of the Personnel Sub-System Management Plan which defines the personnel development phase of the development program for military space systems have been delegated to the operational planning staff of the Deputy Commander for Military Space Systems. This planning function is associated with development of personnel information data (PID), qualitative personnel requirements

[redacted]

information (QPRI), training functional analysis (TFA), personnel training concepts (PTC), training plans (TP), training equipment and devices development, technical manuals and personnel sub-system test and evaluation development.

b. The 6594th STW will be required to participate and conduct the Personnel Sub-system Test and Evaluation Plan developed by AFBMD. The implementation of this plan will require the Wing to develop a capability for the evaluation and application of human engineering principles to equipment design, training, system functions and other related problems. The scope of operational system test and evaluation plan is outlined in Appendix II, Annex "B".

7. USAF TEST AND EVALUATION CAPABILITY

a. Hq ARDC has directed that an "Air Force Blue Suit" research and development test and evaluation capability be developed for the accomplishment of these functions in support of USAF military space system development programs. AFBMD has accomplished the preliminary planning and manning with R&D type personnel on a limited basis, with capabilities at Edwards AFB, AFMTC and the 6594th STW, Sunnyvale, California.

b. One of the assumptions of this plan states that the 6594th STW will ultimately become the AFBMD Test and Evaluation Organization responsible for accomplishment of all test and evaluation responsibilities for USAF Space Development Programs.

c. AFBMD will develop a USAF test and evaluation program which will establish personnel, equipment and facilities requirements for accomplishment of these objectives. This program will be outlined in Appendix III, Annex "B" as soon as the AFBMD program is developed and approved. Basic concepts for achievement of the ARDC, USAF Test and Evaluation Capability by the 6594th STW is contained in Appendix I of this Annex.

[redacted]

8. OVERALL SYSTEM DESCRIPTIONS

a. Overall system descriptions which outline in detail all elements of these systems and associated sub-systems are contained in AFBMD Space System Development Plans referenced in Tab B.

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APPENDIX I

TO

SYSTEM TEST PLANNING, EVALUATION

AND OPERATION

TO

ANNEX B

TEST AND EVALUATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

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[redacted] [redacted]

TEST AND EVALUATION PROGRAMS

APPENDIX I

SYSTEM TEST PLANNING, EVALUATION, AND OPERATION

TO

ANNEX 3

1. WING MISSION RELATION TO AFBMD SPACE TEST PROGRAM

a. The missions of the 6594th Satellite Test Wing (described in the basic Plan) are accomplished concurrently and in conjunction with AFBMD execution of various Space System Test Programs.

b. AFBMD accomplishes its Space System Test Programs in three categories, as prescribed by AFR 80-14, namely:

(1) Category I - Subsystem Development Test and Evaluation for Space Systems involve predominantly a contractor effort, with continuous AFBMD participation and evaluation. Such AFBMD activities are termed Technical Management and are the direct responsibility of the Space System Directors and various project officers.

(2) Category II - System Development Test and Evaluation for Space Systems involve a joint-contractor-AFBMD effort during which the AFBMD effort becomes predominant with ever increasing participation. This complete process is managed, planned and developed by the AFBMD Space System Directors, various responsible project officers, and contractors. The entire System Development Test and Evaluation capability, which is at first predominantly contractor-operated and Air Force-supported, is assigned to the 6594th STW for control. The "control" function of the Wing involves in the beginning regulation of test operation documentation and test preparation, test communications, coordination of all operating and support elements, and test evaluation and reporting. Subsequently, in a gradual process the Wing will expand and train this "Development Test and Evaluation"

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element, in keeping with AFR 80-14, and eventually develop an ARDC "Blue Suit" Space System Development Test and Evaluation capability, with minimum contractor participation. Thus, the overall sequence will find the Wing capability, in Space System Test and Evaluation, growing from one involving initially "control only" to an eventual "full in-house" capability to service Space System requirements identified by AFBMD.

(3) Category III - System Operational Test and Evaluation for Space Systems consists of user tests and evaluation of operationally -configured systems with all components, support items, and personnel skills under operational conditions. In the case of Space Systems such as SAMOS and MIDAS, the using commands possess no operational crews. Therefore, the 6594th STW will train and qualify operational cadre elements of sufficient size and capability to assume System Operational responsibilities upon eventual transfer to the using command. These cadre elements will be separately identified in the Wing structure and will participate and be integrated in the basic Wing activity, namely controlling and participating in AFR 80-14 Category II activities.

Finally, the AFR 80-14 Category III process will be completed when the using command exercises its own Space System Operational Unit under operational conditions.

c. During the entire process described in Category III above, the Space System Development Test and Evaluation element of the Wing will have slowly been expanding in size and capability. Subsequent to the exodus of the Space System Operational elements to their respective using commands, the Wing activity reverts to developing a full "Blue Suit" Category II (AFR 80-14) Space System Development Test and Evaluation capability, servicing AFBMD requirements.

[redacted]

2. WING MISSION RELATION TO ORGANIZATION: As mentioned above, the Wing System Development element (which originally constituted the AFBMD Field Office, and would eventually constitute an ARDC "Blue Suit" Space Test capability) will not grow appreciably in size in the near future. The Wing Staff, however, will be developed, sizewise, to administrate, exercise and support the relatively large Air Force contingent which is composed of two mission elements; namely:

a. Space System Development Test and Evaluation Element - (formerly AFBMD/FO, gradually expands towards achievement of ARDC Blue Suit Test capability after operational elements are transferred to using commands.)

b. Space System Operational Test and Evaluation Element - (recently initiated, rapid and increased training and expansion to near Wing strength prior to transfer to using Command).

3. The relatively large Wing staff required to accommodate the two elements listed above, will remain essentially at strength even after the large SAMOS and MIDAS Operational Elements have been transferred to the using commands. This sustained strength will be required to accommodate the ARDC "Blue Suit" System Development element which had been slowly building in strength and capability (during the training of the SAMOS and MIDAS Operational Elements). After transfer of the Operational Elements, the System Development element would increase to a size roughly equivalent to the Operationals Elements which had been transferred.

4. WING MISSION Phases in AFR 80-14 Categories: The Wing mission performance in each category of the AFR 80-14 Test and Evaluation process is essentially divided into separate phases which are defined below to clarify the inherently complex activities involved.

[redacted]

[redacted]

[redacted]

a. AFR 80-14 Category I:

(1) Initial Phase - No Wing activity - all contractor operation under AFBMD Project Office Technical Management.

(2) Final Phase - Wing Blue Suit Space System Test and Evaluation capability resulting from Final Phase Category II below, could be applied here to afford "Space transportation services" (transporting R&D payloads into space) to aid Category I Subsystem Development Test and Evaluation of unique subsystems.

b. AFR 80-14 Category II - Space System Development Test and Evaluation:

(1) Initial Phase - Wing controls entire contractor test activity.

(2) Final Phase - Wing features in-house "Blue Suit" capability to serve AFBMD Space System Development Test and Evaluation requirements.

c. AFR 80-14 Category III - Space System Operational Test and Evaluation:

(1) Initial Phase - Wing trains and exercises Operational Space System cadre under operational type environment prior to transfer to the using commands.

(2) Final Phase - Minimum Wing activity only - as required - in support of full Category III process as implemented by using command under operational conditions. The evaluation will be made by a test force or team of predominantly using command personnel and at the using command, ARDC, or other available installations as required for best test accomplishment.

d. The Final Phase of Category II Wing activity, as listed in paragraph 4 b (2) above, the full Wing capability involved therein, will not be accomplished until after the initial Phase of the Category III Wing activity as listed in paragraph 4 c (1) above, is accomplished. In other

[redacted]

words, the Wing is responsible for developing Space System Operational cadres first, for transfer to certain using commands and subsequently to develop a Blue-Suit/ARDC/AFBMD Space System Test and Evaluation capability (AFR 80-14 Category II).

5. THE MISSION/PERIOD SCHEDULE WHICH FOLLOWS ILLUSTRATES THE RELATIONSHIPS DESCRIBED ABOVE.

6. Detailed Wing Responsibilities in Test, Evaluation and Training: Elaborating on the Mission/Period Schedule, and the associated description of activity in paragraph 4, the following detailed Wing responsibilities are listed categorically:

a. AFR 80-14 Category II - Initial (Present) Phase:

(Wing Staff small)

(Wing Test and Evaluation element - small)

(Wing Operational Training Cadre - small)

(1) Control of predominantly Contractor Test and Evaluation activity (with Wing participation according to strength) which includes:

(a) Preparation of System Test Directive based on DTO

(b) Preparation of Flight Test Directive based on DTO

(c) Preparation of Countdown

(d) Assurance of Military (Local and/or Range) support fulfillment at launch base and tracking stations.

(e) Activation and checkout of STC and all inter-and intra-station communications.

(f) Assurance of timely readiness and maintenance of all System Test and Evaluation equipment, facilities, and communications.

(g) Preparation of vehicle and payloads for launch, flight, and re-entry (if applicable)

[redacted]

(h) Initiation of and adherence to system countdown at STC, launch pad, stations, and data handling and communications controls

(i) Operations Support discipline.

(j) Hold or malfunction analysis and reaction decision

(k) Accent control functions

(l) Orbital control, tracking, and data acquisition operations

(m) Recovery operations (as required)

(n) Data handling operations

(o) Payload handling operations

(p) Launch complex clean-up operations

(q) Station deactivation or orbital maintaining operations

(r) Data handling, reduction, correlation and evaluation

(s) Forwarding of data to registered recipients

(t) Reporting functions between all approved operating, support and monitoring elements

(u) Preparation of all System Test and Evaluation reports as required by AFBMD directives

(v) Receipt and checkout of flight vehicles and payloads at launch base.

(w) Erection, assembly, and checkout of vehicles at launch pad

(x) Adherance to all involved-local safety criteria

(y) Assist System Directors in improving existing, or plans for future capabilities.

b. AFR 80-14 Category II - Final Phase:

(Wing Staff - large)

(Wing Test and Evaluation element - large)

(Wing Operational Training cadre - possibly large - for new systems)

[redacted]

APPROXIMATE WING MISSION / PERIOD SCHEDULE

ACTIVITY	AFBMD/FO - P. A.	6594TH STW				
	1958	1959	1960	1961	1962	1963
AFR 80-14 Category I Space Subsystem Development Test and Evaluation					WING SUPPORT SPACE TRANSPORT SERVICES	
AFR 80-14 - Category II Space System Development Test and Evaluation	WING CONTROLS CONTRACTOR OPERATION WITH MINOR WING PARTICIPATION	WING CONTROLS OPERATION WITH INCREASED WING PARTICIPATION CONTRACTOR PARTICIPATION GRADUALLY DECREASING			FULL WING CAPABILITY - CONTROL AND OPERATION	
AFR 80-14 - Category III Space System Operational Test and Evaluation		WING TRAINS AND EXERCISES OPERATIONAL CADRES IN CATEGORY II ACTIVITIES AND FACILITIES			WING EXERCISES QUALIFIED OPERATIONAL CADRES IN CATEGORY III ACTIVITY AND FACILITIES PRIOR TO TRANSFER TO USING COMMAND	

6594th Test Wing furnishes "technical assistance" to using commands which conduct actual Category III Test and Evaluation, after Wing (6594th) trained cadre are acquired by said commands.

APPENDIX I, ANNEX B
AFBMD OPS PLAN 2-59
UNCLASSIFIED

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(1) Control and Consummation of predominantly USAF Test and Evaluation activity, which includes:

(See paragraph 6 a (1) above.)

c. AFR 80-14 Category III - Initial (near future) Phase:

(Wing Staff - growing to large size)

Wing Test and Evaluation element - slow growth)

(Wing Operational Training Cadre - fast growth to large size)

(1) Gradual training and integration of Operational cadre personnel into Category II activities, leadint to eventual maximum participation, operation, and evaluation capability.

d. AFR 80-14 Category III - Final Phase:

(Wing Staff - large)

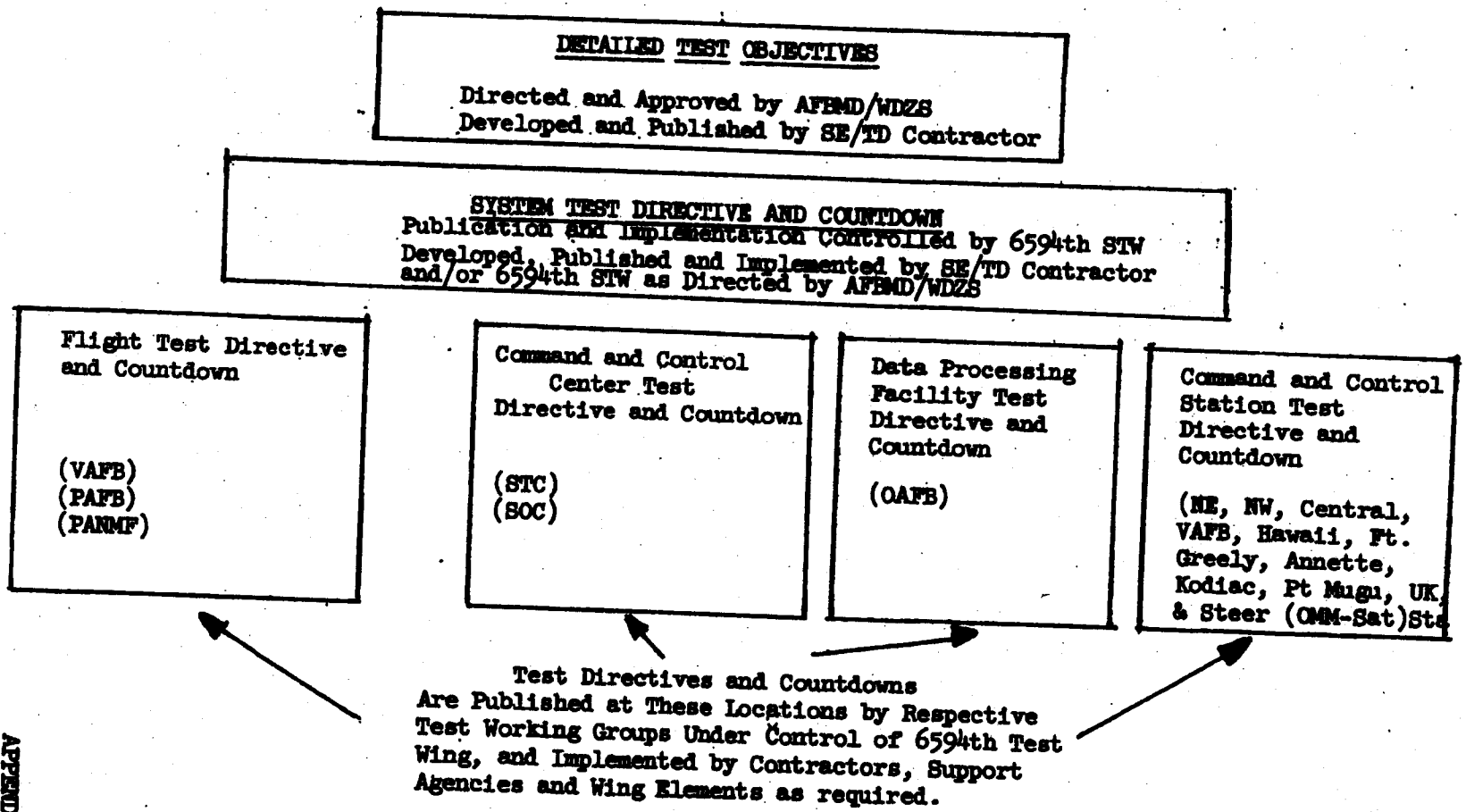
(Wing Test and Evaluation element - nearing maximum strength)

(Wing Operational Training Cadre - near maximum strength)

(1) Actual accomplishment of Operational System Test and Evaluation objectives under operational conditions, utilizing facilities and equipment specifically set aside or developed for this purpose to maximum degree. Exercise capability, demonstrate capability to using command prior to transfer to cadre in said using command.

e. AFR 80-14 Category I - See Mission/Period Schedule above:

"SPACE SYSTEM PRE-TEST DOCUMENTATION"



Note: Documentation for Local Operating Criteria Compliance and/or Support Requirements will be based or referred to the documents described above.

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APPENDIX II

SAMOS/ MIDAS

OPERATIONAL SYSTEM TEST & EVALUATION PLAN

(AFR 80-14 CATEGORY II AND III TYPE ACTIVITY)

TO

ANNEX B

TEST AND EVALUATION

TO

AFBMD OPERATIONAL PLAN

(6594TH TEST WING)

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APPENDIX II

SAMOS OPERATIONAL TEST AND EVALUATION PLAN

1. SCOPE

a. This plan establishes the minimum requirements for Operational System Testing and Evaluation (as described in AFR-80-14) for the SAMOS/MIDAS Systems and specifies the objectives, tasks, responsibilities, and documentation necessary to support the test program. This Plan will be executed by the Systems Operations element of the 6594th Satellite Test Wing, prior to the transfer of the operational personnel to the using command.

2. DEFINITIONS

a. Operational Testing and Evaluation are conducted on operationally configured equipment in an environment typical of expected operational conditions to attain certain specific objectives.

b. Deputy Commander Space Systems Operation, 6594th STW, is responsible for organizing, training and qualifying a specific element of the Wing in SAMOS Operational Test and Evaluation procedures.

c. Space Systems Operations is an element of the 6594th STW. Specific cadres will be formed, trained and qualified in this element of the Wing prior to their transfer to certain using commands.

d. Systems Development Test is an element of the 6594th STW (an outgrowth of the former AFBMD/FO) which primarily controls Systems Development Test and Evaluation Test Force as defined in AFR 80-14.

3. REQUIREMENTS

a. General.

(1) A test program to evaluate the operational utility of the SAMOS/MIDAS Systems will be conducted at the operating sites by the 6594th

[redacted] [redacted]

STW, with minimum assistance by the contractor, in accordance with this test plan. This test program shall be integrated into the basic wing missions and shall include evaluation of the operability and maintainability of system equipment, training methods, personnel performance, utility of procedures, and analysis and evaluation of logistical planning and implementation.

(2) Wherever possible, this test program shall be implemented by utilization, modification and/or expansion of already existing program activities, data and requirements.

(3) The objectives of this test program are to:

(a) Develop instruments and procedures for testing the operational employment of SAMOS/MIDAS Systems.

(b) Ensure that the weapon system equipment can be operated, maintained and supported by Air Force personnel in accordance with existing concepts of economy, efficiency, and reliability and to identify difficulties that Air Force personnel will encounter in operating and maintaining the system equipment.

(c) Evaluate the adequacy of definition and integration of operations, maintenance and logistic activities.

(d) Identify deficiencies and problem areas in equipment operability and maintainability, technical manuals, training, procedures, manning, and performance evaluation techniques which may degrade weapon system performance.

(e) Identify equipment features or procedures which may lead to human error or which may constitute hazards to safety of personnel or equipment.

[redacted]

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[redacted]

(f) Develop and verify job performance standards and evaluation techniques.

(g) Provide testing in the most realistic operational environment consistent with economic technical limitations. Where possible, such testing will be performed under load conditions.

(h) Provide for a timely phasing and shift of roles in contractor, AFBMD (6594th STW) and using command in direction of test program by developing techniques and data which will enable easy transition from R&D test to operational test.

b. Test Procedures.

(1) Job Performance Testing: Data will be collected on the performance of contractor, R&D test wing and operating command personnel. Performance data on operation and maintenance activities shall be obtained by utilizing simulation exercises, R&D test flights, and initial operational flights.

(2) Experimental Testing: The system will be subjected to exhaustive testing under "load" conditions to ascertain system breakdown points and test effects of proposed changes. "Loading" of the system will be accomplished by generating and/or simulating equipment malfunctions and emergency conditions singly and in combination. (Note: "system breakdown" refers to the total system not to life testing or over-loading of the equipment).

(3) System Performance Documentation: Determination of system operability and maintainability difficulties and of the day-to-day functioning of maintenance and logistics shall be made on the grounds of appropriately designed logs, failure reports, and follow-up data from all sites.

c. Evaluation Procedures

[redacted]

[redacted]

(1) The data obtained by the methods outlined in the preceding section shall be analyzed and the system evaluated on the following basis:

(a) System Performance: The performance of the total system and of the individual elements tested shall be evaluated qualitatively and quantitatively. Where inadequacies of performance against these criteria are found, the data will be further analyzed to determine the contributory factors. Further analysis of system performance data will fall into the following categories.

1. Equipment Evaluation: Where excessive time or difficulties in the performance of system tasks are encountered, the contribution of the operability/maintainability design of the equipment to these difficulties will be evaluated. Compliance with AFBMD Exhibit 57-8A, Human Engineering Design Standards for Missiles System Equipment will constitute a portion of this evaluation.

2. Personnel Evaluation: Where excessive time or difficulties in the performance of system tasks is encountered, the contribution of personnel selection, training, and job allocation will be evaluated.

3. Procedural Evaluation: Where excessive time or difficulties in the performance of system tasks is encountered, the contribution of the procedures by which the tasks are performed and of the presentation of these procedures in technical manuals, checklists, job cards and other documentation will be evaluated.

4. Logistic Evaluation: Where excessive time is encountered in the restoration of the readiness of the system following a malfunction, system data will be evaluated to determine whether the maintenance activities, defined under the provisions of WDT 57-7, Maintenance

[redacted]

[redacted] [redacted]

Analysis Program for Ballistic Missile Weapon Systems, as being within the organizational capability are adequately supported by equipment provisioning, logistic management, and technical maintenance instructions.

d. Responsibilities

(1) Definitions

(a) Technical Test Control is the specialized or professional guidance and direction exercised with respect to the development and conduct of tests by the Air Force contractors. This authority will rest with the contractor in early R&D phase but will shift to 6594th STW in Phase II. Included in Technical Test Control is the authority to schedule, conduct, alter, stop, and evaluate individual tests in accordance with the dictates of safety, undue interference to other tests, technical feasibility of any test, undue expenditure of funds or property, compliance with contractual specifications concerning the tests, and limitations imposed by available test resources.

(b) Technical Test Direction is the determination and execution of article test programs in accordance with directives or contractual authority of the Air Force. It includes the formulation in conjunction with the responsible agency and test center of general test programs and detailed test plans, the preparation of articles to be tested, the prosecution of article tests and evaluation of test data, the reporting of test results and the reorientation of the test program and plans based on these data.

(c) Technical Test Controller (Test Controller) is the Air Force representative appointed by and responsible to theCommander 6594th STW for technical test control as defined in paragraph (a).

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(d) Technical Test Director (Test Director) is the operating representative of the contractor or agency having specific authority for technical test direction as defined in paragraph b. He is responsible to the Test Controller for complete technical readiness of a test operation.

(e) Test Conductor is the person responsible for conducting a test operation in accordance with test directives, the operating procedures and/or the countdown document.

(f) Working Group is the resident technical team at operating sites composed of one or more well qualified representatives from 6594th STW, contractors and agencies directly involved in operations testing.

(2) AFBMD Operational Planning Directorate is responsible for the executive management of the operations test program. Specifically, this office:

(a) Will initiate the funding and contract actions necessary to establish the operations test program.

(b) Will review and approve contractor prepared test plans to assure achievement of the program objectives and maximum utilization of already existing program activities, data and requirements.

(c) Will exercise surveillance of the implementation of operations testing to assure achievement of the program objectives and compatibility of phasing and implementation with other weapon system objectives and programs.

(d) Will review test reports and direct corrective measures where warranted by the data.

(e) Will augment the 6594th STW on an "as required" basis in resolving problems associated with the operations test program.

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(3) Lockheed Missiles Systems Division is responsible for the technical management of the operations test program. Specifically, LMSD:

(a) Will prepare technical direction to the sub-contractors.

(b) Will review sub-contractor prepared test plans to assure compatibility and technical adequacy of test and evaluation techniques, adequate coverage of system tasks, and maximum utilization of facilities for achievement of operations test objectives.

(c) Will perform technical surveillance of operations test implementation.

(d) Will review test reports for technical adequacy, fulfillment of operations test objectives and advise the AFBMD on desirable system corrective actions.

(e) Will augment the 6594th STW on an "as required" basis in resolving problems associated with the operations test program.

(f) Will serve as chairman during early R&D test of the Operations Test Working Group which is the resident technical team composed of all participating contractors, and 6594th STW on-site personnel.

(g) Will monitor and evaluate the progress of operations testing in accordance with system technical requirements and achievement of program objectives and schedules.

(4) 6594th STW will represent the Commander, AFBMD in the conduct of the operations test program. Specifically, the 6594th STW:

(a) Will exercise technical test control over operations testing.

(b) Will conduct liaison with the 1st Missile Division where necessary to assure compatibility of operations test activities with programs for which 1st Missile Division has responsibility.

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(c) Will maintain continuing review of contractors' progress relative to established test schedules and anticipate slippages.

(d) Will provide staff assistance and act in an advisory capacity to AFBMD on operations testing.

(5) Associate contractors will exercise Technical Test Direction in accordance with directives and contractual authority from the Air Force. In general, contractors will be responsible for the following:

(a) Generate and prepare both general and detailed plans for operations testing of their own sub-system as specified in section E.

(b) Provide qualified representatives to the Operations Test Working Group.

(c) Provide personnel and direct supervision of operations testing within their sub-system.

(d) Consult with and provide assistance to Test Conductor in the development of testing procedures and in the conduct of systems testing.

(e) Analyze test data and results and incorporate design changes in the system as required and authorized. Coordinate as necessary with other contractors during planning, conduct and evaluation of operations tests. Prepare and distribute test reports as specified in section E.

(6) Working Group

The Operations Test Working Groups are the resident technical teams composed of one or more representatives of all cognizant contractors and members of 6594th STW. It is responsible for detailed planning and preliminary evaluation and acts as the principal advisor to the 6594th STW on Operations Testing. Within the scope of general and detailed objectives, as approved by AFBMD, the working group has authority to change test plans

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procedures and schedules by virtue of the authority vested in each working group member by his parent organization. The working group is called into session by:

(a) The chairman of the Working Group.

(b) Commander 6594th Satellite Test Wing.

It is considered mandatory that each contractor assign a well qualified individual to the working group.

e. Planning, Preparation and Execution of Operations Tests

(1) General

(a) Planning is the responsibility of all contractors. This joint responsibility is implemented through the generation of general plans by each contractor for his system or subsystem and by his assistance in generating integrated and detailed plans and directives for individual operations. Preparation and execution is performed in accordance with the detailed plans of contractors as approved by AFBMD.

(2) Operations Test Planning and Documentation

Operations test planning will be prepared and documented in the following form:

(a) Program Plan: A program plan prepared by the contractors will define the scope and content of the overall test program for subsystem testing with regard to test objectives, test preparation, proposed test and data evaluation techniques, and proposed test execution. The plan will include identification of the degree of utilization of already existing activities, data and requirements, identification of new tasks, and specification of the organizational plans for implementing the operations test objectives. The program plan will be supplemented by:

1. Data and Support Requirements Document: This document summarized the data and support requirements necessary to conduct the

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test and is based in part on data and support requirements submitted by the individual contractors in each program. This document as approved by AFBMD is used for planning purposes and is binding on all contractors insofar as their planning for data and support requirements at operational locations is concerned. Modifications will be made from time to time as necessary to implement additional or modified requirements.

2. Detailed Test Objectives: The DTO will be coordinated at AFBMD, Los Angeles with all contractors involved in the test program and issued approximately 90 days prior to testing. The DTO will define test objectives, design data, basic instrumentation assignment, test parameters and other pertinent information. The DTO's may be issued for a block of tests if considered appropriate by AFBMD.

3. Operations Test Directive: Using the DTO as input, the preparation of the Operations Test Directive (OTD) is directed and coordinated for individual tests or groups of tests by the Operations Test Working Group. The OTD is organized into a single document and issued by the appropriate contractor as specified by the Test Controller. Concurrence of the contractors is indicated by signature on the OTD, AFBMD approval is indicated by signature of the Test Controller. The OTD may be issued in two parts at the indicated times and containing the following data:

(a) Part A - Test Preparation. Issued not later than 60 days prior to testing. Containing test objectives, minimum permissible requirements and objectives, instrumentation and schedules.

(b) Part B - Test Operation. Issued not later than 30 days prior to testing, containing operational test description, base support requirements, test schedules, detailed test procedures, data preparation, and data disposition. The OTD may reference documents prepared

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and standardized for recurring test preparation and operating procedures. The OTD will be transmitted to all contractors involved in the test and to the 6594th STW and AFBMD. It is anticipated that the OTD will also be the official document to define specific base support requirements in lieu of another document for this purpose.

(c) Other Documentation: Additional planning documentation as may be required for individual tests will be specified by the Test Controller.

(3) Preparation and Execution

(a) Preparation: The success of a test depends largely upon the manner in which preparations are made to accomplish it. Therefore, detailed procedural documents for each phase of preparation must be published, distributed, and followed closely to assure complete readiness of the test article, the equipment, and the test complex. All support equipment and facilities will be properly checked prior to a test in accordance with pre-established procedures. It is the responsibility of the working group to review the results and records of the check-out and make recommendations to the Test Controller on the readiness of the complete operation. The Test Controller will make the final decision on the readiness of the operation.

(b) Execution: Execution of a test or operation will be performed in accordance with the procedures as outlined in the test directive.

The Test Conductor will conduct the test in accordance with the detailed test procedures with the assistance of the associated contractors. Any change in the approved procedures may be made by the Test Conductor as long as the objectives of the test are not compromised.

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However, if the test objectives are compromised, the situation will be explained through the appropriate test organizational channels with recommendations being made to the Test Controller. Care must be taken that proposed changes do not jeopardize the success of the test. Instantaneous deviations from the approved procedures for reasons of safety must be reported to the Test Conductor immediately.

The final decision for initiating or cancelling of tests, rests with the AFBMD Test Controller or as he may be directed by higher command authority. Recognition by operating personnel that a test should be terminated will be transmitted through test channels with recommended action to the Test Controller.

(c) Test Report: The test data will be analyzed and evaluated in accordance with the philosophy specified in part C and a test report prepared by the contractor and distributed in accordance with the stipulations of the OTD. The test report shall be organized in sections as follows:

A. Introduction

A brief statement of the contents of the Test Report.

B. Applicable Documents

C. Test Activities

D. Description of Test

E. Test Data (after processing)

F. Evaluation of data and recommendations.

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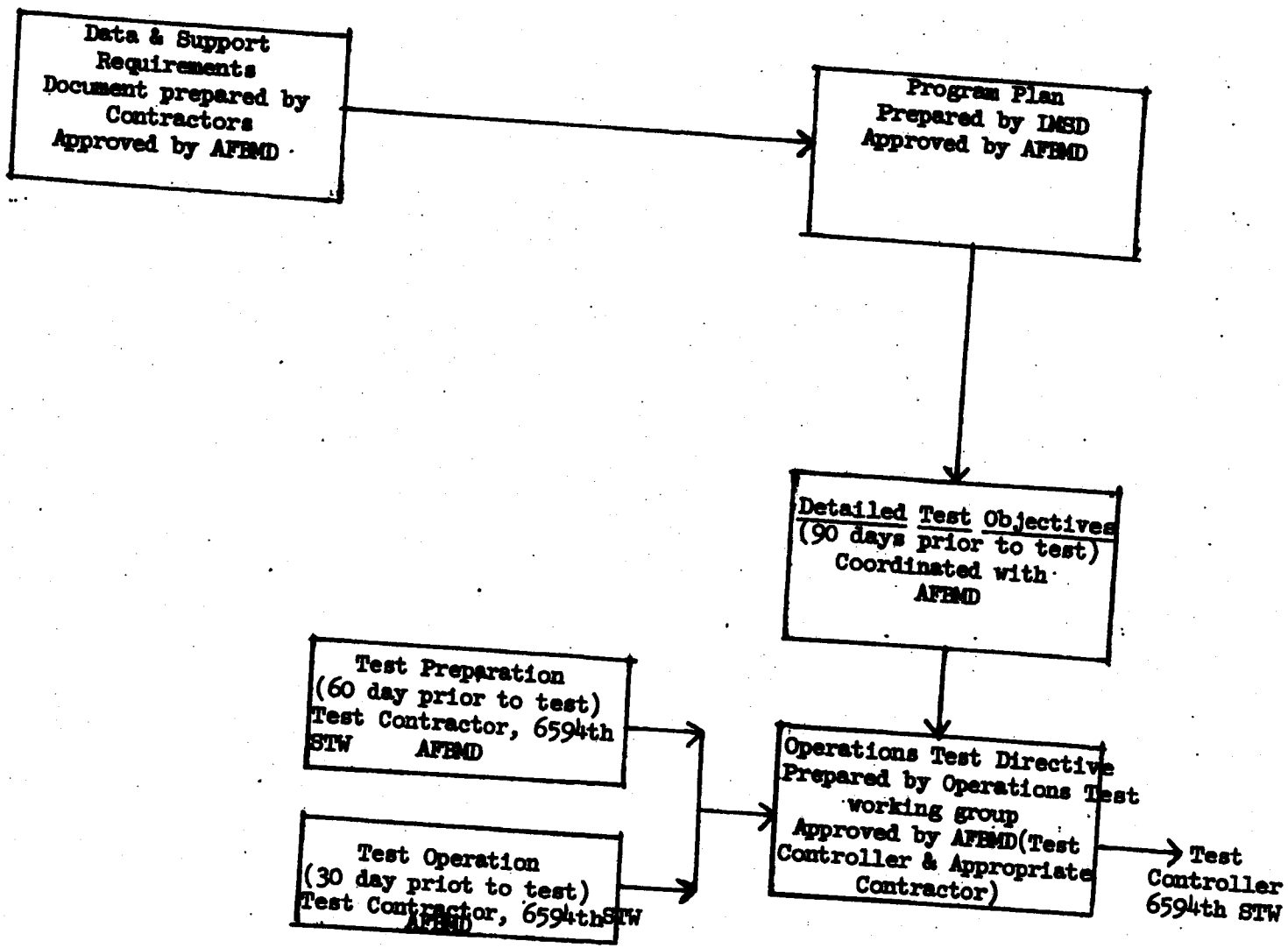
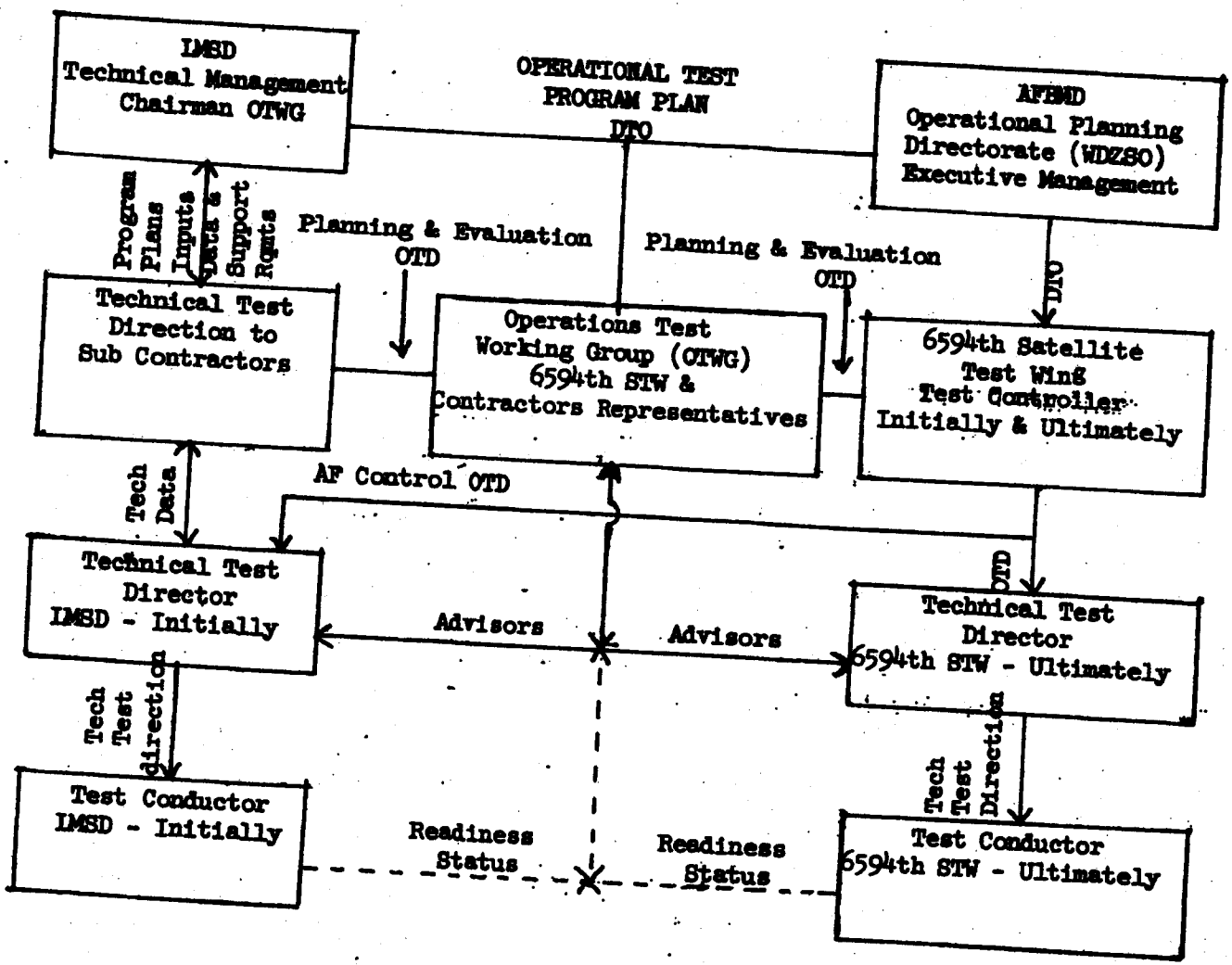


SAMOS/MIDAS TEST PLANNING & DOCUMENTATION



SAMOS/MIDAS OPERATIONAL EMPLOYMENT TEST RESPONSIBILITIES

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ANNEX C

OPERATIONS/TRAINING

TO

AFBMD OPERATIONAL PLAN

(6594TH TEST WING)

WDZSO-207

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ANNEX C

OPERATIONS - TRAINING

1. OPERATIONS

a. General

(1) 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, AFBMD 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) The 6594th Satellite Test Wing mission and organizational structure was established to satisfy its dual role of systems development test and operational employment of the SAMOS/MIDAS military space systems. System development test functions and responsibilities are defined in Annex B.

b. SAMOS Military Space System

(1) The SAMOS military space system consists of the satellite vehicle,

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Appendix I, Annex B, is mainly concerned with test control during actual flight operations from the Satellite Test Center (STC) at Sunnyvale, California. The Wing also participates in test planning and programming actions prior to the actual flight test with LMSD and AFBMD. All test operation locations, including the STC, are manned and operated by LMSD, or associate contractor personnel with the minimum of military personnel at each site for liaison and/or test control purposes.

(2) In the SAMOS development test program, the contractor will be responsible for operating and maintaining SAMOS equipments and facilities with contractor personnel as they are activated. The Wing's test responsibilities will be the same in this program as in DISCOVERER. During the SAMOS development test program, the 6594th STW will begin manning their Headquarters and subordinate units with operational type military personnel. These individuals will be phased into the Wing in two groups, cadre and main complement. The cadre personnel will participate in contractor internal training programs and contractor test operating locations, as outlined in the subsequent paragraphs. As the operational military personnel become proficient, it is assumed that the number of contractor personnel will be reduced with ultimate operations of the system performed by operational military personnel.

(3) As the SAMOS development program and the concurrent operational training program progresses, it is anticipated that military personnel will be performing SAMOS booster and satellite vehicle receipt, processing and launch functions for R&D flight tests, under the direction of the contractor. This type of operation will also be conducted at the STC, and tracking and acquisition stations. As the Space Operations Control and Data Processing facility

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is developed at Offutt AFB, Nebraska, a similar sequence of events will occur with the exception of processing useful intelligence data, which will be a pure military operations, with maintenance being performed by contractor personnel during the R&D phase.

(4) The MIDAS development test program will be conducted by contractor personnel, including the R&D flight test launchings and R&D readout from the satellite. Readout Stations will be activated in Alaska, North Atlantic, [redacted] These stations will be manned by 6594th STW personnel who will be transferred to the operating command, as directed by Hq USAF. 6594th STW responsibilities for MIDAS will be as described in paragraph c, above.

2. TRAINING

a. The operational capability will be achieved by the initiation of the SAMOS/MIDAS Training program. Current training plans and programs are based on revised Personnel Training Concepts developed for the SAMOS/MIDAS systems which was approved by Hq USAF, 1 July 1959. The concept for these particular programs identify a cadre and main complement training phase. The ATC preliminary cadre training plan was published on 9 July 1959, which established AFBMD/ATC/FTD cadre requirements. All cadre participation will be accomplished in accordance with AFR 80-14 at a contractor facility or at an R&D test site. Specialized factory training will be established to develop those skills peculiar to the SAMOS/MIDAS systems. Such training will be the responsibility of ATC.

b. The AFBMD cadre includes those command, key staff, technical personnel, and support personnel who will be assigned to the 6594th STW and its elements up through September 1960. A portion of these cadre will be engaged in the

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management of the contractor's R&D effort. The bulk of the cadre technical personnel will participate with the contractor(s) in the R&D program as a means of obtaining early experience in the operation and maintenance of the SAMOS/ MIDAS systems. Some AFBMD cadre technicians will replace contractor technicians; others will provide added support to assigned contractor personnel.

c. The FTD cadre (ATC) includes all personnel authorized for the FTD's to support the training programs for the SAMOS/MIDAS systems. The entire FTD authorization is to be assigned prior to October 1960. The ultimate mission of the FTD's is described in Appendix II. Prior to the assumption of its ultimate mission, FTD cadre will participate in the contractor's "in-house" training program. In some instances, the FTD cadre will replace contractor training personnel, in other instances, they will provide added support to the contractor's "in-house training capability. FTD cadre personnel will participate in the R&D technical test effort to the extent necessary to equip them to participate in the contractor's "in-house" training effort.

d. Main complement training is the responsibility of ATC with direct management assigned to the cognizant FTD. This training will be conducted in an R&D or operational environment and will take advantage of test activities, as defined in AFR 80-14. The FTD will identify the desired participation in these activities by the various trainees. It is the responsibility of the 6594th site commander to integrate this participation with the on-going test activities. There will be a requirement for a system orientation type training course for all supervisory personnel in the main complement. Equipment oriented operator and maintenance training will be established as special training courses

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(AFR 50-9) located at R&D, or operational locations by FTD personnel. Integrated systems training will be accomplished as the individual training course trainees are integrated into the organizational flight, crews or teams. This training will consist of programmed simulated exercises using R&D and operational equipment to the maximum extent possible, supplemented by programmed and closely supervised on-job training (OJT). The integrated systems training effort will be managed by the FTD. Unit training will be the responsibility of the 6594th Unit Commander. Economy dictates the use of R&D test and/or operational equipment to accomplish the necessary training wherever possible. The scheduling of equipment for training must be given comparable consideration with R&D test, procedure development and other uses. The implementation of these training programs will require close supervision and management by the 6594th STW, as it involves the establishment of priorities for utilization of systems facilities for R&D and training purposes within the same time period. Further definitions of training responsibilities are outlined in Appendix II.

e. The participation and training programs will be conducted concurrently with continued development programs. As operational type military personnel become proficient enough to replace contractor personnel, these individuals will be phased into each facility and/or installation until the balance of military personnel has reached the degree that a military capability is recognized.

f. The 4999th Data Processing Squadron personnel will participate in the R&D program at the Thompson-Ramo-Wooldridge, Inc., Laboratory, Denver, Colorado, to develop Early Fix skills and skills required for operating the R&D facility

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to be located at Offutt AFB. This is necessary to insure that military capability exists at the proper time to process useful intelligence data obtained by R&D flight tests. Early Fix is the designation of an early military capability program for data processing, as directed by Hq USAF.

g. The 6594th Launch Squadron located at Vandenberg AFB will participate in Pt. Arguello launch operations. This organization has received approximately 100 skilled military personnel from the Jupiter program who are currently being utilized to assist the contractor during the installation and checkout phase of these facilities. This organization will probably be the first squadron to achieve its military capability.

h. The 6594th/6596th Instrumentation Squadrons technical personnel will attend contractor in-house training courses, and upon completion, will assist the contractor during the installation and checkout phase at their particular station. The 6596th Instrumentation Squadron is located at Vandenberg AFB, California, and the 6594th Instrumentation Squadron is located at New Boston, New Hampshire. The 6595th Instrumentation Squadron, Ottumwa, Iowa, will not be activated until October 1961. Technical personnel of this squadron will be trained during main complement training at 6596th/6594th locations.

i. Various Wing Headquarters staff personnel will require the same training as their counterparts in Launch, Instrumentation and Data Processing Squadrons. Wing Headquarters personnel will attend Supervisors' and Planners' course, as required. SOC personnel training will be satisfied by FTD courses and the Supervisors' and Planners' course, except for those peculiar skills that may require factory training. Factory courses will be established by ATC,

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as required. SOC personnel will participate in operations of the Satellite Test Center at Sunnyvale, California, during the test program.

j. The 6594th Recovery Control Group, located in Hawaii, consists of the 6593rd Test Squadron, and the 6593rd Instrumentation Squadron. Training for personnel of the Instrumentation Squadron will have to be phased-in with the training of the 6596th Instrumentation Squadron.

k. Training

1. A MIDAS operational capability will be developed by the implementation of a MIDAS participation and training program. Training plans and programs will be based on the revised Personnel Training Concept developed for the SAMOS system and which was approved by Hq USAF on 1 July 1959. The concept for this program identifying a cadre participation and main complement training phase through which personnel are trained simultaneously with the development of the system hardware. The ATC preliminary MIDAS cadre training plan will be developed in December 1959 and will establish AFBMD/ATC Field Training Detachment (FTD) cadre requirements. All cadre participation will be accomplished in accordance with AFR 80-14 at contractor facilities or at an Air Force site. Specialized factory training courses will be established as required to develop those skill peculiar to the system. Such training will be the responsibility of ATC.

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APPENDIX I

OPERATIONS

TO

ANNEX C

OPERATION/TRAINING

TO

AFBMD OPERATIONAL PLAN

(6594th TEST WING)

WDZSO-207

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APPENDIX I

OPERATIONS

1. GENERAL

a. The operations functions of the 6594th Test Wing embraces those actions necessary to fulfill its field test responsibilities and concurrently establish and achieve a military operational capability with assigned operational type Air Force personnel.

b. The 6594th Satellite Test Wing internal operations in the test area include those tasks associated with the assumption of necessary staff functions required to support these operations, staff supervision of remote launch, tracking and telemetry stations and recovery operations, establishment of SOP's and participation in operation of the Satellite Test Center (STC) and AFBMD Test Control under the supervision of the responsible AFBMD space system program agency.

c. The 6594th STW internal operations to achieve the operational military capability requires: active participation in various planning and programs actions conducted by AFBMD which affect this organization, assumption of certain management responsibilities during the remote station activation installation and checkout phase, management, programming and scheduling action during the training programs and assumptions of necessary staff function to effectively support these operations.

2. TASKS AND RESPONSIBILITIES

a. AFBMD will:

(1) Prepare operational plans and orders for the management and

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employment of the 6594th STW.

(2) Provide operational staff assistance to the 6594th STW, as required.

(3) Assist in the preparation of operational plans and programs required by using commands for operational employment of the SAMOS/MIDAS systems.

(4) Request Wing participation, as required, in various operational, planning and programming actions conducted by AFBMD.

(5) Accomplish continuing monitoring and supervision of all operational employment aspects of space system development programs.

(6) Exercise required direction and control and/or supervision of the 6594th STW during Category II and III operational suitability test programs.

(7) Establish procedures for submission of comments and recommendations relative to operational evaluation and suitability of systems developments, operational support, and operational employment programs.

(8) Establish, review and comment on all operational criteria, doctrine and requirements applicable to military space systems.

(9) Performs operational evaluation of space system hardware and overall system employment techniques through participation in technical direction meetings (TD) engineering design reviews (EDR) and development engineering inspections (DEI), conducted by space system development contractors.

(10) Review overall space system development and test programs schedules and key data charts for impact on the operational program.

(11) Responsible for the implementation of space system operational policies and directives issued by Hq USAF.

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(12) Responsible for the direction of all operational spects of overall system use to include command and control and the relationship of various interested agencies for ultimate system operational employment and system utilization.

(13) Participate in overall planning and proposals for technical, operational and support agreements with other Air Force commands and other services, as required.

(14) Insure the satisfaction of approved operational requirements in terms of systems design and system employment to meet the established need dates.

b. 6594th Satellite Test Wing will:

(1) Assume the necessary staff functions to insure the adequacy of internal capabilities and the establishment of standard operations procedures required to support and conduct assigned field test responsibilities outlined in Appendix I and II Annex B.

(2) Develop necessary operational command and control policies and directives for the administration and support of assigned military personnel located at remote Discoverer tracking and telemetry and recovery operating locations.

(3) Develop necessary military operations requirements for operating facilities and personnel and non-technical facilities required to support assigned test functions to include floor plans, room arrangements, security control aspects, etc.

(4) Perform periodic test operations exercises for purposes of

[redacted]

exercising the established command and control systems and associated support and administrative services.

(5) Participate in continuing analysis and evaluation of the Wing administrative and organizational capabilities to support the program and field test activities established by AFBMD Field Test Directives.

(6) Participate, as requested by AFBMD, in operational plans programming and requirements actions for the operational employment of the SAMOS and MIDAS systems in the areas of operations, maintenance, personnel, logistics and communications.

(7) Participate, as requested by AFBMD, in conferences, meetings, and briefings on SAMOS/MIDAS operational matters affecting the 6594th STW and its subordinate units.

(8) Participate, as requested, in SAMOS/MIDAS system, sub-system and ground support and operational equipment Design Engineering reviews "DEI", and contractor compliance Technical Inspections "CCTI" for purpose of accomplishing operational evaluation to insure compliance with established operational requirements and concepts of operation.

(9) Participate and assist AFBMD in review of design criterias for SAMOS/MIDAS equipments, facilities and installations to insure compliance with established operational requirements and concepts of operations.

(10) Assume required Air Force management responsibilities at remote tracking and telemetry station operations locations during the activation, installation and checkout, and training phases of the SAMOS/MIDAS programs, as directed and/or delegated by AFBMD.

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(11) Achieve the Wing capability to operate and maintain the SAMOS/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.

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

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APPENDIX II - TRAINING

TO

ANNEX C

OPERATIONS/TRAINING

TO

AFSMD OPERATIONAL PLAN

(6594th Test Wing)

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APPENDIX II - TRAINING

1. TRAINING CONCEPT

a. As in all other weapons and space systems development programs, the prime objective of the BAMOS/MIDAS programs is to achieve an operational capability at the earliest possible date. Because of the urgent requirement for this system, testing and training programs have been superimposed on the same time scale.

b. The objectives of training is such that the end product of the program will be a unit trained on the latest research and development equipment to a degree of proficiency that will provide a blue suit capability. Proficiency will be determined by performance in the actual operation of the equipment during the research and development program.

2. TRAINING POLICIES. To carry out the training concept, the following policies and/or procedures will apply:

a. Personnel for the training program will be provided from Air Force wide resources.

b. The individual and integrated training will be conducted on the latest research and development equipment at the operational sites.

c. Contractor instructors will be utilized in individual and integrated training with the FTD instructors, as required to accomplish the mission.

d. FTD personnel will participate with the cadre to provide an early blue suit instructor capability.

e. Basically, there will be one system and this system will become operational through an evolutionary R&D program. Training will be accomplished on this system during research and development.

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f. Individual training will evolve into integrated training as the students reach a certain skill level. Since most activities within the system require high interactions within short time limits, training must be accomplished through close coordination of many sequential and parallel operations or integrated exercises.

g. The individual and integrated main complement training will be managed by the ATC (FTD) under AFR 50-9.

h. Training will be equipment oriented to the maximum extent possible.

i. Unit training will be the responsibility of the unit commander conducted by FTD instructors on the operational equipment. This training will be conducted to provide continued equipment oriented training for new equipment or new personnel joining the operational unit.

3. INSTRUCTOR TRAINING PROGRAM

a. The contractor will provide in-house courses to develop a contractor installation, check-out and test capability. FTD personnel will attend these courses as deemed necessary to prepare them for their role as instructors.

b. FTD instructors will participate in the AFR 80-14 participation program and will assist the contractor in course preparation for main complement training.

4. CADRE & MAIN COMPLEMENT TRAINING

Specific responsibilities for the cadre and main complement training are as follows:

a. Air Training Command.

(1) Develop the cadre and main complement training plans.

(2) Direct individual and integrated main complement training under the direct management of the assigned FTD's.

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(3) Provide training standards and course materials, as necessary, for the conduct of the program.

(4) Provide necessary training aids for main complement training.

(5) Develop an FTD instructor capability.

(6) Provide unit training assistance to the unit commander, as required.

b. 6594th Satellite Test Wing and Units

(1) Personnel will be assigned to the 6594th STW and Squadrons.

(2) Administration of all assigned trainees.

(3) Monitor all training activities.

(4) Schedule student into the program as established in the Training plans.

(5) Monitor AFR 80-14 participation of the cadre plan.

(6) Manage and direct the unit training program with the assistance of FTD's.

(7) Provide for scheduled periods of training on the operational equipment.

(8) Coordinate main complement training efforts with ATC.

(9) Assist in the development of training plans and training equipment lists.

(10) Provide base support to contractor instructor/technical representatives.

c. AFBMD

(1) Provide time phase training personnel requirements for main complement training and time phasing for cadre personnel into the AFR 80-14

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participation program.

(2) Provide assistance in developing training plans.

(3) Assist the contractor in the development of the cadre participation program.

(4) Monitor the development of course materials for main complement training.

(5) Assist in scheduling of training in conjunction with R&D tests.

(6) Participate in selecting and reviewing training equipment lists.

(7) Monitor and provide guidance in the development of Technical manuals to be used for training.

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ANNEX D

LOGISTICS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

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ANNEX D - LOGISTICS

1. GENERAL

a. SAMOS/MIDAS development plan identifies the Atlas ballistic missile as the booster for these satellite systems. The logistic system devised to support these programs considered the peculiar needs of the specific space system and the logistics systems developed for the Atlas ballistic missile system.

b. The Commander, Sacramento Air Materiel Area (SMAMA) has been designated as the Logistic Support Manager (LSM) for the SAMOS/MIDAS programs. Support of the SM-65 booster and associated ground support systems will be by direct contact between the 6594th Launch Squadron and the SM-65 Weapon System Manager at San Bernardino Air Materiel Area (SBAMA) with status monitored by LSM.

c. The R&D and test programs for SAMOS will be logistically supported by AFBMD through contractor effort. The Air Materiel Command (AMC) through the SAMOS/MIDAS LSM will furnish logistic support for the R&D and test programs only for common and standard Air Force items requested by AFBMD. The contractor has full responsibility to support the flight test program during the R&D effort. His logistic operation shall have the capability to procure, store, transport, issue, maintain, modify, and repair the supplies and equipment necessary to maintain the launch schedule and to support the flight test objectives. In accomplishing this mission, whenever practicable he shall use Air Force standard items obtained from Air Force supply sources. Overhaul and spares support of Air Force standard items will be a responsibility of the prime commodity depot. General housekeeping and maintenance support required by the contractor at R&D facilities on or near military establishments are furnished in accordance with existing support agreements. The R&D Logistic Operation is outlined in Appendix I to this Annex.

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d. The SAMOS/MIDAS systems will gain its operational capability progressively over a period of time. Consequently, there is no single date that separates the R&D and operational phase of these programs. Therefore, AMC logistic management responsibilities will be phased to support items of equipment at the time these itmes function for the primary purpose of performing the SAMOS/MIDAS operational mission. The full range of logistic support of direct mission items to the operating commands is the management responsibility of the SAMOS/MIDAS LSM.

e. All items required for support of SAMOS/MIDAS are categorized as Direct mission support items and indirect mission items. Direct Mission Support Items are contractor peculiar or common and standard Air Force items (weapon system) used directly by SAMOS/MIDAS units in support of the operational mission, including Real Property Installed Equipment (RPIE) which will be determined by the LSM, AFBMD and the operating commands. Includes local purchase and General Supplies Stock Fund items which are critical to the operation of the weapon syste. This does not include normal housekeeping and administrative supplies. Indirect Mission Support Items only indirectly affect the operational missions and when temporarily not available do not delay programmed launchings or data receipt and transmission.

2. Supply

a. General

(1) Basic supply policies and procedures described in AFM 67-1, AMCM 65-1 and AFM-400. Series will be adhered to by having numbered stock record accounts for indirect mission support items.

(2) Central accountability and inventory control of direct mission items will be maintained by the LSM through the use of AMC Standard Integrated Data System.

(3) Indirect support items required for administrative and housekeeping purposes will be furnished by the host base supply account in accordance with procedures of AFM 67-1.

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b. Budget and Funding

(1) Peculiar Item Support. AFBMD is responsible for budgeting and funding for initial quantities of peculiar items. Budgeting and funding for follow-on support of peculiar items is the responsibility of applicable AMC Inventory Managers.

(2) Common and Standard Items. Until such a time as appropriate UAL's are developed for SAMOS/MIDAS Space System Squadrons by the using command, the Logistics Support Manager and/or SM-65 WSM as applicable will be responsible to insure that itemized listings of common and standard items required for the SAMOS/MIDAS Program are provided to the applicable AMC Inventory Managers (IM's) for budget and buy actions.

c. Provisioning

(1) In order that ARDC/AMC responsibilities for the selection and provisioning of ground environment direct mission support equipment can be clearly delineated, all such equipment will be identified as either "operational" or "support" by AFBMD in the early stages of the R&D program in accordance with MIL-D-9412C.

(a) Equipment will be identified as "operational" when required to launch the prime air vehicle (satellite and its missile boosters), maintain guidance control prior to the orbital phase, track the satellite and read-out and acquire reconnaissance data, and operate the space operations center and data processing facility. This equipment will be referred to as Ground Operational Equipment (GOE).

b. Equipment will be identified as "support" when required to overhaul, assemble, disassemble, transport, safeguard, record, store, actuate and/or otherwise maintain the original functional operating status of the SAMOS/MIDAS systems, support system, and items or components. This includes maintenance of the GOE. This definition includes special tools or test devices including measurement standards or calibrating instruments required for support of Ground Support Equipment. This equipment will be referred to as Ground Support Equipment (GSE).

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(2) The initial selection of GOE is the responsibility of AFBMD. The LSM will participate in the initial selection in order to obtain knowledge of the equipment for use in subsequent replacement procurement for support of operational phases. Furthermore, the LSM will assist AFBMD whenever possible in making quantitative determinations, identifying suitable substitute common/standard items and rendering advice regarding the adequacy of new GOE in terms of maintainability and supportability criteria. The LSM will also insure that proper cataloging actions are taken for all initially selected GOE.

(3) The initial selection and approval of GSE (maintenance equipment) is the responsibility of the LSM and/or SM-65 WSM. The LSM and/or SM-65 WSM are responsible for determing quantitative program requirements of GSE. THE IM's are responsible for contractual release of common and standard AFS GSE. The BMC is responsible for contractual release of initial peculiar GSE (CFE). The LSM's and/or SM-65 WSM's determination will be based upon listings of recommended GSE provided by the contractor during the provisioning process in accordance with MCP 71-650.

(4) MCP 71-650 will be appended to the operational contract and used in the provisioning of GSE required during the operational phase of the program. MCP 71-673, supplemented as required, will be appended to the operational contract and used for the provisioning of spares required during the operational phase of the program.

d. Authorization Documents

(1) Weapon System Equipment Components Lists (WSECL's) will be prepared by the LSM based on the contractor's and SM-65 WSM AMA, recommended GSE lists and equipment and facilities lists as approved or revised by the AFBMD, the LSM and the operating command.

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(2) Unit Authorization Lists (UAL's) will be prepared by the operating command based on the WSECL's and the command's estimated total equipment requirements. The UAL's will be coded to differentiate between direct and indirect mission support items.

(3) WSECL's and UAL's will serve as a basis in computing budget and buying programs for standard central procurement items.

e. Material Storage and Stockage Objectives

(1) Material Storage

(a) AMC will determine the type, location and number of AMC storage sites required for supply support of the SAMOS/MIDAS program. Such factors as total direct mission support items required for the program; location of depot level maintenance facilities (AF and contractor); locations of prime, associate, sub and lower tier contractors fabricating material and effecting direct shipments; specific locations, type of equipment installed and storage capability of ground sites; availability of reflex communications tie-in; and faciltiy availability will be considered.

(b) Material will be stored at AMC controlled storage sites in accordance with the storage and preservation criteria established in Section 6, Volume I, AFM 67-1 and other pertinent publications listed in Supplement II to referenced section. Storage and preservation requirements for contractual depot level maintenance storage sites will be specified in Appendix B of the Statement of Work.

(2) Stockage Objectives

Stockage objectives for weapon system peculiar items will be governed by the "Slow Build-up" policy of deferred procurement so that the impact of engineering changes on supply stocks will be minimized. Detailed procedures stipulating the methodology of computing stockage objectives for all supply points will be incorporated in the AMC Logistic Plan for those systems.

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f. Distribution of Materiel

(1) Initial Distribution

(a) The WSECL's prepared by the LSM will serve to identify the AF common/standard and system peculiar items and quantities required for equipping using command organizations. Initial spare parts support of all systems and equipment, including installed equipment, will be determined by the LSM and/or SM-65 WSM as applicable.

(b) The LSM, AFBMD, and the operating command, will accomplish an inventory of all equipment and spares located at the launch tracking site, and acquisition stations, Space Operations Control and Data Processing Facility that are to be made available to the Operational/Commands from the R&D effort. Items and quantities determined as available for use will be screened against the stockage objective and squadron WSECL in order that the total initial requirement can be supplied under LSM direction to the operational site. The specific date for the inventory will be determined by the naing command, and the LSM, taking into consideration the back-off time required to complete shipment of any additional initial support items needed in-place by a specified date.

(c) The LSM and/or SM-65 WSM as applicable will provide controlled automatic shipment of all operational support direct mission AF common and peculiar equipment and spares applicable to the respective launch site, tracking and acquisition station, space operation control and data processing facility so that such material will be in place at least thirty days prior to the respective operational dates. Equipment and spares required to support Installation and Check-out (IAC) will be positioned prior to Installation and Check-out initiation dates.

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(2) Follow-on Support

(a) The SAMOS/MIDAS LSM and/or SM-65 WSM as applicable will maintain record of the stock levels and asset positions of each operational squadron so that automatic material replenishment from the control storage sites can be accomplished in accordance with established procedures.

(b) Requisitions for direct mission support peculiar and standard Air Force items will normally be submitted by the operating squadrons for emergency requirements to prevent equipment from being in "Out of Commission for Parts" status.

(c) Air Force standard administrative and housekeeping indirect mission support items shall be requisitioned through the host base supply account in accordance with the provisions of AFM 67-1.

g. Accountability

(1) The SAMOS/MIDAS LSM and/or SM-65 WSM as applicable shall retain accountability for all SAMOS/MIDAS direct mission support items located at the launch sites, tracking and acquisition stations, Space Operation Control, and Data Processing Facility.

(2) All operating sites shall maintain AF Forms 1120 (Unit Property Record) as custodial records for all direct mission support UAL property items.

h. Evacuation of Material

(1) Evacuation of reparable items shall be on a direct basis between the operating squadrons and the repair facilities identified in the weapon system stock control list, published by the LSM. The limited quantities of peculiar components and spares provisioned under the Air Force "Slow Build-up" policy in support of the initial phases of the operational program precludes the utilization of normal reparable evacuation procedures. A maximum of five days is allowed for handling and in-transit time from the operating site to the repair activity.

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(2) The LSM will determine the disposition of direct mission items which become obsolete or which are not economically feasible to repair. Disposition instructions will be included in the WSSL.

(3) Evacuation of serviceable, condemned and items marked for disposal will be accomplished through the host base facilities. Packaging, transportation documentation (B/L's,etc), shipment, and salvage shall be the responsibility of the host base.

i. Cataloging

(1) All peculiar items provisioned in support of the SAMOS/MIDAS space system shall be cataloged in accordance with Air Force and Federal Supply Cataloging policies and procedures as defined by applicable regulations, manuals, specifications, handbooks, etc. Cataloging action will be initiated as the particular item reaches approved status as defined in ARDC Regulation 80-4. Cataloging action for all provisioned, system peculiar items and spares will be the responsibility of the cognizant IM's.

(2) The SAMOS/MIDAS LSM shall prepare and publish a Weapon System Stock Control List (WSECL) as soon as the required item classification, identification, standardization and source data become available. The WSECL will include all Air Force standard and peculiar items required in direct mission support of the operational squadrons and/or sites. Missile booster components, GSE and spares applicable to the Program will be cataloged and published as a supplement to the SAMOS/MIDAS WESCL. These items will be listed as the support responsibility of the SM-65 WSM.

j. Standardization

(1) Standardization, maintainability and interchangeability of equipment, components, and accessories are required to insure maximum efficiency, reliability and expeditious supply support and maintenance. AFR 73-1, AMCR 67-15, AMCR 65-32 and AMCL 67-17 apply.

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k. Engineering Data

Adequate engineering data will be provided by the contractor in accordance with AMCR 5-24, AFR's 5-17, 81-13, MCP 71-77 MIL-D-703271, MIL-M-8857 and T. O. 00-35-2.

l. Classification

SAMOS/MIDAS items to be integrated into the Air Force logistics and material management system shall be classified in accordance with rules relating to Group 14 and Class 4935 of the Federal Supply Classification structures. Items not falling in Group 14 and Class 4935 will be classified in the appropriate Air Force or Federal classifications in accordance with the Air Force S-I-1 and Federal Catalog Manual M-1-3, classification guides and Department of Defense Handbook H-2 series.

3. Maintenance

a. General

(1) There shall be three (3) levels of maintenance performed on SAMOS/MIDAS Systems. These levels are organizational, field and depot. Organizational maintenance will be performed within the operational squadrons situated on the operating sites, launch areas, and squadron maintenance areas. The using command will be responsible for all organizational and field type maintenance on payloads, satellites, boosters, Tracking and Acquisition Stations (T/A) equipment. Data Processing Facility (DPF) equipment, Space Operations Control recovery group equipment, (SOC), and related support equipment including direct support facility items. This does not preclude the possibility that it may be advantageous as requirements become more definitized, for the operational commands. To establish a separate field level maintenance organization to accomplish part of the maintenance workload. Depot level maintenance is the responsibility of the Air Materiel Command. It will include that maintenance which is beyond the capability of the using organizations and will be performed at AMA's/Depots, contractors' facilities or through the use of mobile depot level maintenance teams.

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(2). Maintenance of communications equipment and facility items will be accomplished as described in AMC Logistic plan. For maintenance of command communications fixed facilities for operational control (such as telephone and microwave), the operational command will augment troop capability, where necessary, by separate contracts or agreements.

(3). Prior to eventual design stability in the operational program, the research and development program will continue to dictate considerable modifications. Therefore, it is anticipated that during the early operational program, it will be necessary for the contractors to provide the bulk of the technical support assistance. This will be made available through operational command technical representative contracts, contractor services contracts, and AMC initiated depot support contracts. As design becomes stabilized, these contracts will be reduced to facilitate attainment of USAF objective for organic support of vital weapons. The objectives of this policy will be accomplished as early as practicable, commensurate with design stability and economy. Support requirements and equipment characteristics will be continously analyzed by the LSM for integration into the AMC depot system.

(4) Management of maintenance support of facility type items (RPIE) at the various operating sites, which are determined to be direct support items and are an integral part of the SAMOS system, is responsible to the SAMOS LSM for providing maintenance support for those facility type items (RPIE), which are applicable to SAMOS and which are also utilized in support of the SM-65 (ATLAS). The SAMOS LSM in conjunction with AFBMD, the operational command and the SM-65 LSM, will compile a list of items which directly affect the performance of this space system. When items have been mutually defined as falling within the direct mission category, the SAMOS LSM will take necessary action to support these items with procedures used for other direct mission items. (See Chapter XIII, paragraph 1.a.(3) for support policy on technical support facilities).

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(5) Highly qualified AF personnel from the operational command and AMC will be assigned to the test program as early as possible, to gain experience in accordance with AFR 80-14. These personnel will participate with AFBMD in establishing maintainability requirements for the SAMOS system, in accordance with AFR 66-29. The LSM will be responsible for compilation of the maintainability data acquired during the R&D test phase.

(6) To firmly establish the authorized scope of organizational and field-type maintenance, the AMC LSM, in coordination with AFBMD and operational command will develop a separate list of items for each type of activity, i.e. - Launch, T/A, SOC, DPS, which are considered practicable and economically feasible to repair at each echelon of maintenance. The lists will include satellites, payloads, boosters, guidance, telemetry, tracking and acquisition equipment, data processing squadron equipment, Space Operations Center equipment and related GOE and ground support equipment, including direct mission facility-type (RPIE) items. The authorized lists will be published in appropriate-18 Technical Orders. The lists will be revised at requent intervals, so as to insure that maximum maintenance effectiveness and economy are being achieved at each level of maintenance.

(7) The guide lines as established herein will be utilized by the contractors in conducting their maintenance analysis program during the R&D phase. Resulting data will be made available to the LSM on a progressive basis as determined by AFBMD/BMC/LSM.

b. Technical Data

(1) AFBMD/BMC shall insure that the contractor capability is developed early to provide technical manuals for training and that technical manuals, Class I, are delivered to the operational units thirty (30) days prior to the operational date. Technical Manual requirements will be established for equipment manuals through the

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the use of CFAE notices. Job and Functions (Organizational, Operator Maintenance) manual requirements will jointly be determined by using command, ATC, AFBMD, AMC and the LSM. General, job and functional manuals will be written to current military specifications. List of Applicable Publications (LOAP's) will be delivered ninety (90) days following the assignement of a technical order number and technical orders will be assigned immediately upon firm contractual application of a manual. Inspection work cards, sequence charts and inspection manuals will be required as outlined in T. O. 00-20E-1 and WDT Exhibit 58-9A or superseding military specifications. Printing and distribution of all manuals will be accomplished through equipment Contractor Call Contracts managed by the LSM.

c. Modification

(1) The policies and procedures prescribed in AFR 57-4 will be used to establish modification requirement. Major modifications of communications equipment, boosters, satellites, and associated equipment shall be performed on site whenever possible with mobile repair teams from the depot-level repair facility. Modifications which cannot be economically performed in the field, or which require equipment such as special stands, environmental conditions, or calibration equipment which exceeds the capability of base or portable standards, will require return of equipment to the designated repair facility. The repair facility shall maintain a continuous capability to modify existing equipment to the latest configuration, as directed by the Air Force.

b. A joint SAMOS/MIDAS Configuration Control Board (CCB) will be established by AFBMD with membership from AFBMD, operational commands, BMC, the LSM and the Air Training Command before the first R&D SAMOS or MIDAS launching from Vandenberg AFB. The CCB will provide Air Force evaluations of proposed modifications and will assure control and documentation of contractor modifications, fixes, engineering orders, (EO's) and engineering change proposals (ECP's) during the development test phase.

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d. Contract Technical Services

The using command and/or AMC when applicable shall program and administer contracts for the services of contract technicians and contractor technical representatives required during the operational phase of this weapon system. The provisions of AFR's 66-17 and 66-18 shall apply.

e. Unsatisfactory Reports

(1) Reliability and failure data collected by the contractor during the R&D phase which is applicable to operational hardware will be made available to the LSM as required in support of source coding and provisioning actions. Special procedures developed for ballistic missiles will be applicable to this program in the operational phase (T. O. 00-35D-54).

(2) The LSM, in conjunction with ARDC, will monitor the development of recording devices which may be included in GSE design to insure rapid and economical integration of GSE recorded maintenance data in the USAF Product Improvement Program as outlined in T. O. 00-35D-54.

4. Quality Control

a. General. The compressed time cycle between the initial design concept and the operational phase of the SAMOS/MIDAS dictate the need for an integrated quality control program encompassing the entire life cycle of the space system. Effective controls will be established and maintained throughout development, fabrication, testing, installation and checkout, and both operational and depot level maintenance and supply. Responsibility for assuring an effective total quality control program rests with the Quality Control Office of the Logistic Support Manager (SMAMA) in conjunction with the Ballistic Missiles Center (AMC).

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b. Development and Production Quality Control

(1) The contractor's system of quality control shall be in accordance with MIL-Q-9858. This specification will apply to operations at the contractor's plants, assembly and test facilities, test centers and operational sites.

(2) Government inspection and acceptance shall be in accordance with Section XIV of the Air Force Procurement Instructions and the provisions of AMCM 74-1, and AMCR 74-5.

c. Maintenance Quality Control

(1) The contractor's quality control system for depot level maintenance shall be in accordance with specification MIL-Q-9858. Government surveillance of the contractor's quality control system shall be in accordance with Section XIV, AFPI, and the provisions of AMCM 74-1, AMCM 74-21, and AMCR 74-5.

(2) Quality control procedures on maintenance performed at AMA's/Depots or by mobile AMA/Depot terms shall be in accordance with AMCM 74-17.

(3) Quality Control procedures on maintenance performed by Air Force operational squadron personnel will be in accordacne with AFR 66-1 and implementing directives thereto, published by the operational command.

(4) The contractor's quality control system for any level of contractor on-site maintenance will be in accordance with Specification MIL-Q-9858.

d. Supply Quality Control

(1) The contractor's quality control system at contract storage sites shall be in accordance with MIL-Q-9858 and the supplemental clause thereto, entitled "Quality Control Requirements for Logistic Support Operation." Government surveillance of the contractor's quality control system shall be in accordance with Section XIV, AFPI, and the provisions of AMCM 74-1, and AMCR 75-5.

(2) Quality control procedures for supply functions performed by AMA's/Depots including weapon system storage sites, shall be in accordance with AMCM 74-7.

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(3) Quality control procedures on supply functions performed by Air Force operational squadron personnel will be in accordance with AFM 67-1.

5. Calibration

a. Contractor calibration programs shall be in accordance with MIL-Q-9858 or special provisions as may be prescribed by contract.

b. Periodic calibration of test equipment and precision measuring instruments utilized in AMA/Depot shops shall be in accordance with AMCM 74-17.

c. The repair, calibration and certification of precision measurement instruments utilized by Air Force personnel at operational squadrons shall be accomplished in accordance with AFR 74-2, including supplements thereto, and T. O. 33-1-14.

d. Each prime design contractor will be required to review the list of "Base Standards" established in T. O. 33-1-14 to determine if these reference standards are adequate to maintain operational test equipment and precision measuring instruments to the required degree of accuracy. A report indicating that the list of "Base Standards" is adequate or recommending additions or deletions will be furnished by the prime design contractor to the LSM at least 24 months prior to the activation of the first operational unit. Questions or inquiries concerning T. O. 33-1-14 will be referred to the Director of Maintenance, Dayton Air Force Depot, Gentile Air Force.

6. Ground Support Equipment - Ground Operating Equipment

a. Ground Support Equipment shall be procured, supplied, transported, and maintained as an integral part to the weapon system. It is envisioned that a large part of the maintenance required will be for the repair of GOE/GSE.

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b. AFBMD/BMC/LSM and/or the appropriate inventory manager shall determine, in conjunction with the contractors, the need for precision measurement equipment, including physical calibration standards and related calibrating devices which are necessary to support the test equipment provisioned for this system.

7. Real Property Facilities

(1). Facilities required for Operational Program which are peculiar to the SAMOS Space System include:

	Program Respon.
(a) Launch Pad Complex: Located at Vandenberg AFB, California. Plans call for Ha SAC making available existing 65-1 (Atlas) Complex Pads A B & C for SAMOS program	AFBMD
(b) Missile Assembly Building (MAB). MAB being established for 65-1 (Atlas) Complex at Vandenberg AFB will be utilized after required extension and modification is accomplished and AFW supply building.	AFBMD
(c) Tracking and Acquisition Stations as follows:	
1. Fort Stevens, Oregon	AFBMD
2. New Boston, N. H.	AFBMD
3. Hawaii	AFBMD
4. Ottumwa, Iowa	AFBMD

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(2) Facilities required for the operational program which are peculiar to the MIDAS Space System include:

(a) Launch Pad Comples # 2, with three launch stands located at Point Arguello. AFBMD

(b) Missile Assembly Building MAB)(ADDN). Two additional missile assembly bags to the SAMOS/ATLAS. MAB located at VAFB and an addition to the AFW supply building. AFBMD

(c) MIDAS Readout Stations.

(1) Ft Greely, Alaska AFBMD

(2) North Atlantic AFBMD

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(d) MIDAS Operations Center collocated at Offutt, AFB within the SAMOS Space Operations Control area.

(3) For information pertaining to operational data, refer to the SAMOS/MIDAS Development Plan Operational Annex and using command operational plans.

b. Maintenance

AMC Command installation real property facilities will be maintained, repaired, and operated in accordance with AFR 85-5.

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8. Transportation

a. General

(1) The fastest and most effective transportation (air or surface), consistent with military requirements and over-all economy, will be used for support of the SAMOS/MIDAS systems.

(2) The LSM is the cognizant transportation office for support of the LMSD and LMSD subcontractors, TRW and TRW subcontractors producing hardware for the SAMOS/MIDAS Systems. All transportation support for Atlas boosters will continue to be the responsibility of the Transportation Office at SBAMA, now cognizant on Atlas contracts.

(3) Due to the high cost and limited procurement of both end items and spare parts, the source-to-user concept shall be used to the maximum extent feasible to avoid duplication of transportation funding and excessive handling.

(4) Classified components of this system shall be protected during shipment in accordance with applicable provisions of AFR 205-1 and AFM 75-1.

b. Transportation Responsibilities and Requirements

a. The LSM and/or SM-65 WSM as applicable, in computing supply requirements, shall compile necessary data so that total tonnage and cubage requirements for airlift (AFR 75-15) can be determined by the Directorate of Transportation, Hq AMC Supply Airlift Requirements Control Office (MCSDL).

c. Packaging and Preservation

(1) The design objective is directed toward minimizing the need to package major end items, since airlift or surface transportation under armed guard and with special handling techniques reduces packaging requirements. If special packing or containers are required for storage purposes, they will not be introduced into the transportation system as shipping containers.

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Special containers, if required for storage purposes, should be placed in position by surface means prior to the movement of the component for which intended.

(2) Preservation and packaging of spare components and ground instrumentation will be consistent with the mode of transportation and storage requirements determined by the Hi-Valu control program for spares.

(3) All Air Force activities concerned with procurement or shipment of materiel in support of the SAMOS/MIDAS programs will utilize AFR 71-7 procedures to the maximum extent possible. AFR 71-7 establishes the policy regarding the shipment of uncrated articles of Air Force property via authorized carrier.

d. Materials Handling

(1) SAMOS/MIDAS ground-handling trailers will be designed to meet specifications MIL-M-8090 and MIL-A-8421. Specifically, the ground-handling trailer will be required to meet the conditions imposed by Type II mobility, as defined in MIL-M-8090, and the airloads as imposed in paragraph 3.3.3 of MIL-A-8421 without malfunctions of Satellite Vehicle or SM-65 booster. In addition, the ground-handling trailer will be designed for minimum weight and cube displacement, ease of handling, and ease of maintenance.

(2) The design of mobile ground support equipment and materials handling equipment will be coordinated with the LSM (SMAMA) and/or SM-65 WSM as applicable to insure inclusion of the necessary transportation characteristics and in-use mobility.

9. Medical Services

a. General

(1) 6594th Launch Squadron personnel perform a peculiar mission which requires special-type medical support. The exact extent of the specialized medical support, together with facility personnel and equipment required, shall be identified

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by the using command, and joint tenancy agreements with other commands shall be entered into as required.

(2) The using command shall identify its special protective equipment requirements in the UAL in sufficient time to insure availability of such equipment at the operational site by the unit equippage date.

(3) Medical care, other than first aid, shall be accomplished in accordance with the procedures reflected in Appendix 6, Annex G of this plan.

10. Material Services

a. General

(1) The 6594th Satellite Test Wing Structure is prescribed in the organization and manpower Annex A of this plan. 6594th Satellite Test Wing units will be administered on a separate squadron basis.

(2) Mortuary, laundry, dry cleaning, clothing repair and exchange services, recreation; fire-fighting equipment and service; etc., shall be the responsibility of the host base, as prescribed in AFR 11-4. The degree to which these services will be provided has been determined jointly by the host base and the using command and is reflected in Appendix 2, Annex G, of this plan. Vehicle, aircraft and installations repair facilities, physical security of outlying sites, and other services of this nature shall be obtained by augmentation of host base facilities wherever possible. Only those services which cannot be provided by the host base will become the responsibility of the operational units.

(3) During the facilities design effort, cognizance shall be taken of space and fixed facility requirements within squadron areas for on-site recreational activities. Special Services items such as athletic equipment, motion-picture equipment, library books, etc., shall be provided by the host base, through the applicable Special Services or Library account.

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11. Procurement

a. General

(1) SAMOS/MIDAS System is being procured, with the exception of "Sub-system I", (Data Processing Facility) under the prime Weapon System contractor concept with Lockheed Aircraft Corporation, Sunnyvale, California, designated as the prime contractor.

(2) Contractor sources for the major sub-systems of the SAMOS/MIDAS Systems are:

	Scope
(a) SAMOS/MIDAS	
(1) Missile and Space System Division, Lockheed Aircraft Corp., Sunnyvale, Calif.	Prime weapon system contractor for SAMOS/MIDAS with exception of Sub-System I. Responsible for Satellite Ballistic Missile interface components, read-out station equipment, excluding ground space communications, SOC equipment, together with supporting GSE and applicable spares.
(2) Philco Corporation, Redwood City, Calif.	Associate contractor for ground space communications equipment loacted within T/A stations.
(b) Booster (SM-65)	
(1) Convair, San Diego,Calif.	Booster airframe and Convair CFE included therein, propellant utilization system, sub-system interface components, supporting GSE, and applicable spares.
(2) North American Aviation, Inc., Canoga Park, Calif	Rocket engines, supporting GSE, and applicable spares.
(3) General Electric Company, Electronics Park, Syracuse, New York	Ground guidance system complete (including computer plus any airborne components which are CFE by GE), supporting GSE, and applicable spares.

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Scope (cont'd)

(4) Sundstrand Machine Tool Co., Pacoima, California	Auxiliar power supply, associated hardware, supporting GSE, and applicable spares.

(c) Sub-System I (SAMOS Only)

(1) The Thompson-Ramo-Wooldridge Products Co., El Segundo Boulevard, Los Angeles, Calif	Prime weapon system contractor for Data Processing Facility, Eqp., together with supporting GSE and applicable spares.

(3) Procurement and production for SAMOS/MIDAS systems will be accomplished by the AMC Ballistic Missiles Center. Production for operational inventory will begin while development and test is still in process. Production capacity will be gradually increased during the development phase, thereby eliminating the normal time lag required for production tooling at the end of the research and development phase. It shall be assumed that requirements for R&D testing and for fulfilling operational inventory needs will be satisfied by allocating successive products from the same production line. The production capacity for end items of ground support equipment, sub-systems, and components will be aligned with the build-up of production capacity for the basic weapon system.

(4) During both the research and development, and operational phases, the AMC Ballistic Missiles Center is vested with the responsibility for negotiating SAMOS/MIDAS contracts, with exception of Sub-System I.

AFBMD has the responsibility for funding and procuring the prime end items of which sub-system I is composed. This procurement is being made through the Rome Air Development Center (RADC). RADC also has the contracting responsibility for the research and development phase and the support thereof. RADC will incorporate in their R&D contract provisions (i.e., necessary exhibits) to insure that technical data required by AMC to establish support of the operational phase is available.

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(5) The Sentry LSM will assume responsibility for support of sub-system I at the operational date designated in the SAMOS Development Plan and the Operational Annex thereto.

12. Tasks and Responsibilities

Tasks and responsibilities for the accomplishment of logistics functional responsibilities are outlined in Appendix I of this Annex.

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APPENDIX I

LOGISTICS (R&D)

TO

ANNEX D

TO

AFBMD OPERATIONAL PLAN

2-59

6594TH TEST WING

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APPENDIX I

LOGISTIC SUPPORT REQUIREMENTS FOR SAMOS/MIDAS R&D PROGRAM

The Logistic Plan of Operations for the SAMOS/MIDAS R&D Program will establish, develop and maintain supply and maintenance functions, including transportation. These activities shall be established as follows:

Control Function

A logistic control organization will be established at the prime contractor's facility in Sunnyvale, California. This logistic control activity shall establish the initial levels of equipment, materials, and spares in the various bonded storage areas; maintain and coordinate the flow of new, serviceable, and reparable Government-furnished/contractor-furnished equipment items between stations; establish initial maintenance capability requirements; coordinate use of Government-furnished transportation; continually evaluate and program refinements to the logistic plan of operations; and prepare and submit reports as required.

Supply Function

Home-Plant Site. A supply center will be established at the prime contractor's facility in Sunnyvale, California. This activity shall operate bonded storage areas; procure, issue, package, preserve, and ship new and serviceable Government-furnished/contractor-furnished equipment items to test site bonded storage areas; issue to maintenance activities reparables received from launch and tracking stations and prepare data for reports referred to under "Control Function" above.

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Maintenance Functions

Home-Plant Site. A maintenance activity will be established at the prime contractor's Sunnyvale facility. This maintenance activity shall receive reparable items from the bonded storage areas, analyze the reparables for required materials and spare parts, and effect the necessary repairs; return serviceable items to supply; establish master repair schedules based on requirements determined from analysis and R&D experience and prepare data for reports referred to under "Control Function."

Launch and Tracking Stations. A maintenance activity will be established for the R&D Program at each launch and tracking station. This activity shall receive reparable items from the bonded storage areas; analyze the reparables for required materials and spare parts and effect the necessary repairs; return serviceable items to supply; and prepare data for reports referred to under "Control Function."

Transportation

Transport of serviceable and reparable materials between locations as required to support the SAMOS/MIDAS R&D Program will be by Government carrier, prime contractor's carriers, or approved commercial carrier, as circumstances may dictate.

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APPENDIX II

LOGISTICS TASK & RESPONSIBILITIES

TO

ANNEX D

LOGISTICS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

Appendix I
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APPENDIX II

ANNEX D

LOGISTICS TASKS AND RESPONSIBILITIES

1. GENERAL

a. The basic logistic concepts reflected in Annex D of this plan are extracts and summation of the logistics concepts reflected in the AMC Logistic Plan for the SAMOS/MIDAS military space systems.

b. The implementation of this logistic concept will require active participation by the 6594th Satellite Test Wing and its subordinate units during the time period prior to the operational ready date. The tasks and responsibilities contained in the subsequent paragraphs are included for the purpose of providing additional guidance to the 6594th STW in fulfillment of their logistics mission. Statements of responsibilities for assisting AFBMD and the SAMOS/MIDAS Logistic Support Manager in logistic planning and programming and provisioning activities will only be implemented by requests for assistance by these agencies.

2. TASKS AND RESPONSIBILITIES AIR MATERIEL COMMAND

a. Management (The SAMOS/MIDAS LSM (SMAMA) and/or SM-65 WSM (SBAMA) shall:

(1) Develop and define the total functional automatic data processing systems procedures.

(2) Identify system input-output elements of information and document format.

(3) Insure that the EDP System implemented is compatible with the standard functional integrated data processing system being developed by SBAMA.

(4) Prepare for Hq AMC staff coordination and publication, implementing manuals and directives.

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(5) Maintain cognizance of changes in management and operating concepts and modify the system to provide for these changing requirements.

(6) Identify and take action with appropriate agencies to solve any problems involved in establishing and operating the automatic data processing system.

(7) Identify and place requirements for personnel staffing and training in support of the electronic data processing program.

(8) Initiate automatic data processing system and communications equipment linkage budgetary, funding, and acquisition actions.

(9) Machine program the standard AMC data processing system for appropriate automatic data processing information.

(10) Initiate a program to train the operating and management staff in the logistics procedures and concepts.

(11) Prepare, coordinate and publish a time-phased plan, indicating the actions necessary to implement the automatic data processing system.

b. Maintenance. The SAMOS/MIDAS LSM will be:

(1) Responsible for the establishment of Depot maintenance capability for the SAMOS/MIDAS systems.

(2) Responsible for the maintenance of identified facility items operating locations which are determined to be an integral part of these systems.

(3) Responsible for the overall establishment of maintainability data acquired during R&D and the compilation of the results.

(4) Responsible for the development of a master list of items which can be repaired at the organizational level.

(5) Responsible for management control of all depot level maintenance both commercial contract and USAF "in-house."

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(6) Determine the qualitative and quantitative personnel requirements of AMC personnel to be trained as mobile team members and AMC depot technical representatives.

(7) Develop necessary system and procedures for recording time/history logs in support of the satellite portion of these systems.

(8) Participate in the establishment of Job and Functional manual, inspection work cards, sequence charts and inspection manuals requirements.

(9) Program and administer contracts for the services of contract technicians and contractor technical representatives required during the operational phase.

(10) Provide AMC Technical Representatives to collaborate with AFBMD in the R&D program for purposes of evaluating and insuring adequacy and simplicity of maintenance provisions. The LSM will compile and coordinate with AFBMD a proposed plan of AMC participation during the R&D phase.

(11) Insure that AFS tool equipment calibration requirements are identified and are supportable at base level or through mobile team.

c. Supply - LSM will:

(1) Be responsible for logistic support, management of AF common and standard items and spares.

(2) Advise appropriate prime AMA/Depot of common and standard items required to support R&D program.

(3) Resolve log support problems involving AF common and standard items.

(4) Manage all SAMOS/MIDAS system peculiar items categorized in the FSC groups (List 1A).

(5) Determine net systems requirements and control of SAMOS/MIDAS

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peculiar items in FSC group (List 18) and all AF standard and common items in direct support of operational units categorized in the FSC groups listed in List 2 AMC Policy Letter.

(6) Responsible as Engine manager for the Bell LP-81 Rocket engine and components.

(7) Budgeting and funding for follow-on support of peculiar items.

(8) Provision of itemized listings of common and standard items for the SAMOS/MIDAS system to applicable AMC's COM for budget and buy actions.

(9) Initial selection and approval of GSE (Maintenance Equipment).

(10) Preparation of WSECL's.

(11) Determine material storage site requirements.

(12) Inventory of all equipment and spares located at R&D operating locations.

(13) Provision of controlled automatic shipment of all operational support direct mission AF common and peculiar equipment and spares to all operating locations.

(14) Issuing disposition instructions for all obsolete direct mission items.

(15) Responsible for the cataloging, standardization, engineering data and classification, functions as prescribed in AMC Logistic Plan.

(16) Responsible for determining transportation requirements and technical support facilities items.

(17) Direct support of SM-65 Atlas booster through SBAMA IOC EDP for 6594th Launch Squadron at VAFB. (SM65 WSM).

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3. AIR FORCE BALLISTIC MISSILE DIVISION

a. Management.

(1) Acting as the using command, actively participate with the SAMOS/MIDAS LSM and/or SM-65 WSM in the development of detailed unit level procedures and in continuing evaluation of the projected effectiveness of the logistic support capability being developed by AMC for these systems:

b. Maintenance

(1) Assist, coordinate and collaborate with the SAMOS/MIDAS LSM in establishing maintainability requirements for these space systems.

(2) Assist the LSM in the establishment of a required system and procedures for recording time/history logs in support of the satellite portion of these systems.

(3) Establish a Configuration Control Board (CCB) for controlling processing of Engineering Change Proposals during the development program.

c. Supply

(1) In coordination with the contractors, establish and compile requirements for all direct, common or standard end items required for support of the R&D effort.

(2) Selection of production quantities of basic contractual end articles of the SAMOS/MIDAS system required for the operational phase.

(3) Budgeting and funding for initial quantities of peculiar items.

(4) Preparation of UAL lists for the 6594th STW organizations.

(5) Initial selection and approval of G.O. E. quanitative requirements.

(6) Exercise full responsibility and authority for design approval,

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function of equipment and spare parts.

(7) Inventory of all equipment and spaces at R&D operations locations.

(8) Assist LSM in the identification of technical support facility items which are to be maintained and supported by AMC as an integral part of the SAMOS/MIDAS systems.

4. 6594TH SATELLITE TEST WING

a. Management

(1) Will be responsible for logistic management and control of all Air Force property, defined and identified in 6594th STW and subordinate unit UAL's.

b. Maintenance

(1) Assist AFBMD in determination of technical support facility items which are to be maintained and supported by AMC agencies.

(2) Assist AFBMD in the establishment of maintainability requirements for space systems in coordination and collaboration with the SAMOS/MIDAS LSM.

(3) Assist AFBMD/LSM in the establishment of a required system and procedures for recording time/history logs in support of the satellite portion of these systems.

(4) Assist AFBMD/LSM in determining the need for calibration equipment necessary to support the test equipment provisioned for the SAMOS/MIDAS systems.

(5) Participate in configuration control board actions (CCB) for controlling and processing of Engineering change proposals during the development program.

(6) Be responsible for all organizational and field maintenance functions required for the SAMOS/MIDAS systems.

(7) Be responsible for maintenance of assigned command communication

fixed facilities established for operational control.

(8) Assist the SAMOS/MIDAS LSM and coordinate in the development of the master list of items which can be repaired at organization level.

(9) Develop procedures for electric and/or electronic transmission of maintenance status information from T/A stations to STC/SOC.

(10) Establish quality control procedures on maintenance performed by AF operational squadron personnel in accordance with AFR 66-1.

(11) Participate in the establishment of Job-Functional manual requirements.

c. Supply

(1) Assist AFBMD in the selection of initial production quantities of basic end articles of the SAMOS/MIDAS system required for the operation phase.

(2) Assist AFBMD in the selection of Ground Operating Equipment (GOE), and the establishment of quantitative requirements.

(3) Participate in the inventory of all equipment and spares in the R&D program which are identified for transfer to the operational inventory and wing account.

(4) Assist AFBMD/LSM in establishing the basis of issue associated with selection and support of Ground Support Equipment (GSE).

(5) Assist AFBMD/LSM in the accomplishment of spares and spare parts provisioning actions in support of SAMOS/MIDAS systems.

(6) Establish quality control procedures on supply functions performed by AF operational personnel in accordance with AFM 67-1.

(7) Arrange for the evacuation of obsolete serviceable, condemned and items marked for disposal.

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(8) Actively participate in the preparation and review of UAL for the Wing and its subordinate units.

(9) Direct all subordinate units to maintain AF 1120 (Unit Property Records) as custodial records for all direct support UAL property items.

(10) Establish requirements, requisition, receive and control all administrative and housekeeping indirect support items obtained from the host base.

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ANNEX E

SPACE-GROUND COMMUNICATIONS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

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1. GENERAL

a. The communications systems required for employment of the DISCOVERER, SAMOS and MIDAS systems consists of a complex communications and data processing network. These systems are identified as "Sub-system "H", "Ground-Space Communication". The present and planned ground-space communication equipments and facilities for these space systems are adequately described and specified in documents supplied by the contractor; however, a generalized description is contained for informational purposes and additional facilities type information is contained in Appendix I, Annex F.

b. Task and responsibilities of the agencies concerned with the planning, development, operation and evaluation of these equipments and facilities during the period prior to the USAF operational date are defined Appendix I of this Annex.

2. DEFINITIONS

a. Operational date- The date a particular satellite system is determined ready for operational use and placed under the control of an operational command by order of USAF.

b. Space-ground communications - Those equipments and facilities of a satellite system necessary to perform the following functions:

(1) Acquire and track the vehicles;

(2) Transmit and receive reconnaissance data;

(3) Transmit and receive telemetry data;

(4) Transmit and receive command signals;

(5) Provide a reference time base for data, commands, and displays;

(6) Provide indicator and display devices to properly monitor operation of the system and assist in preparing commands;

(7) Convert all data to a useable form;

[redacted]

(8) Perform computations necessary to solve orbital equations, prepare ephemeris tables, generate necessary vehicle commands, correct vehicle-ground timing errors, provide acquisition information, and provide information for system analysis.

(9) Provide inter and intra-station communications for:

(a) the required transmission of tracking, reconnaissance, command, and telemetry data between equipments and stations, and

(b) administration and other communications necessary in the system operation.

3. DISCOVERER-GROUND-SPACE COMMUNICATIONS

a. The ground-space communications for the DISCOVERER program consists of those items of equipment required to perform the following functions:

(1) Determine the position of a satellite vehicle relative to the earth, as a function of time, by a process of observation and computation;

(2) Command and program the functioning of the vehicle payload and auxiliary devices on a time-sequence basis or in real time.

(3) Provide a means for communicating with the vehicle from ground stations and for receiving and encoding environmental, vehicle functional and telemetry data from other vehicle subsystems.

(4) Provide communication facilities and terminal magnetic tape recording equipment ground installations for efficient and reliable recording and transmission of received information.

(5) Provide a common time reference for the vehicle and ground complex and a reference date-time index for the orbital passes.

Subsystem ground equipment at tracking and acquisition sites includes all non-airborne specialized equipment required to transmit, receive, checkout and test,

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record, process, store, and decode indexed information and to safeguard or otherwise perform functions at the tracking and acquisition sites immediately subsequent to launch and throughout the DISCOVERER's orbiting life.

This system ties in all remote operations locations with the Satellite Test Center at Sunnyvale, California.

4. SAMOS GROUND SPACE COMMUNICATION SYSTEM

a. The Ground-Space Communication system for SAMOS will perform the functions of: acquisition and tracking of the satellite vehicles, telemetry, visual and electronic data link, vehicle antennas, inter-and intra-stations communications, and the command system. This system requires a new tracking and acquisition station at VAFB with a visual, electronic data link, and the activation of two additional tracking and acquisition stations located in the Central and Northeast area of the ZI, and the establishment of a space operations control and data processing facility at OFFUTT AFB. Control during the operational program will be from the Space Operations Control.

5. MIDAS-GROUND-SPACE COMMUNICATION SYSTEM.

a. The Ground-Space Communication system for MIDAS will utilize the capabilities of the SAMOS system. A large scale digital computer will be added at the STC and receiving tracking computers at the tracking stations. Read-out stations for the

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APPENDIX I

GROUND-SPACE COMMUNICATIONS

RESPONSIBILITIES

TO

ANNEX E

GROUND-SPACE COMMUNICATIONS

TO

AFBMD OPERATIONAL PLAN

(6594TH SATELLITE TEST WING)

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APPENDIX I

GROUND-SPACE COMMUNICATIONS

RESPONSIBILITIES

1. GENERAL

a. The present and planned space-ground communication equipments and facilities for AFBMD satellite systems are adequately described and specified in documents supplied by the contractor. This annex defines the responsibilities of the agencies concerned with the planning, development, operation and evaluation of these equipments and facilities during the period prior to the operational date.

2. RESPONSIBILITIES

a. Planning

(1) Developmental

The overall planning for the development of space-ground communication equipments and facilities to satisfy the objectives of the satellite system will be the responsibility of the space-ground communication contractor as directed by AFBMD and defined in applicable contractual documents. This responsibility will include the necessary research and testing of materials, components, and techniques. The 6594th Satellite Test Wing and the AFBMD Filed Offices will monitor this planning and submit recommended changes or additions to AFBMD for evaluation and implementation.

(2) Operational

The initial planning for the operation of the space-ground communication complex, including manning, personnel training, operational procedures, and logistics, will be the responsibility of the satellite system contractor, as directed by AFBMD. As the satellite system nears the operational stage and as the 6594th Satellite Test Wing is sufficinetly manned, the Wing will be responsible for revising and undating operational planning to incorporate changes in system concept and equipment

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design. AFBMD will approve all revisions of planning documents.

b. Operations and Maintenance

(1) At present the actual operation and maintenance of the satellite space-ground communications system is conducted almost entirely by contractor personnel. As the 6594th Satellite Test Wing personnel become trained in specific work areas (see Annex C.), they will replace contractor personnel during test operations. It is anticipated that the entire system will be operated and maintained by Air Force personnel as the operational date is approached.

(2) At this time, the contractor will act only as advisor and technical representative. Operational and maintenance of the satellite space-ground communication system by the 6594th Satellite Test Wing, will include command and control of the STC, remote stations used for tracking, control and data acquisition, all intra and inter-station communication links, and computing facilities associated with the satellite space-ground communication system. Certain specialized work areas, such as programming, operating, and maintaining the system computers, may best be continued as the contractor's responsibility. Such work assignments will be recommended by the 6594th Satellite Test Wing and approved by AFBMD.

(3) Those equipments and facilities that are leased for use in the space-ground communications complex, will be operated and maintained as specified in the applicable lease agreement.

c. Procurement of Leased Facilities

(1) Inter-station facilities:

(a) The initial procurement of the leased communication system and local services is the responsibility of AFBMD. During the R&D Program, AFBMD will budget for and retain Communication Service Authorization (CSA) authority for the operational leased communication network. The 6594th Satellite Test Wing will recommend changes based on operating experience.

At such time as the complete communication systems for SAMOS and MIDAS are installed and operating satisfactorily, the budgeting and CSA authority will be transferred to the 6594th Satellite Test Wing.

(2) Intra-station Facilities and Administrative Support:

(a) AFBMD will be responsible for budgeting for and initial procurement of these facilities at the STC and T/A sites. As these facilities are installed and utilized, and the 6594th Satellite Test Wing is manned with sufficient personnel, the budgeting and CAS procurement authority for these types services will be transferred to the 6594th Satellite Test Wing.

d. System Analysis

(1) The engineering analysis of space-ground communication components and overall system is the responsibility of the system contractor under the technical direction of AFBMD. The 6594th Satellite Test Wing and the AFBMD Field Offices will monitor this analysis and submit recommendations for improvements to AFBMD for evaluation and implementations.

(2) The analysis of the operational procedures and techniques used in the space-ground communications system during tests will be the responsibility of the 6594th Satellite Test Wing. Resulting changes to standing operating procedures recommended by the Wing will be coordinated with the ground-space communications contractor and approved by AFBMD before implementation.

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ANNEX F

INSTALLATIONS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

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ANNEX F

INSTALLATIONS

1. GENERAL

a. Technical Support Facilities programs for the Discoverer, SAMOS and MIDAS are summarized in this Annex. Discoverer facilities requirements were established to support a technical R&D program only.

b. Space system development concepts for the SAMOS/MIDAS programs were developed to meet both technical and operational requirements established by the DOD and Hq USAF agencies. Application of these concepts to facilities requirements resulted in the establishment of a "single set" of facilities program that would insure adequate technical support facilities for the technical programs and satisfy operational technical support requirements to the maximum degree possible.

c. The acceptance and approval of this facilities program (representing a considerable saving in MCP costs) created a situation where utilization of the "single set" of technical support facilities would of necessity require joint contractor/R&D and operational command tenancy during concurrent and continuing R&D and operational programs.

This facilities factor alone influenced the entire development and operational-training plans and programs established for these systems.

2. DISCOVERER TECHNICAL SUPPORT FACILITIES PROGRAM

a. All facilities required for the Discoverer program are existing. These facilities, with the exception of the SM-75 Launch Complex at Vandenberg AFB, were programmed under the SAMOS Development Plan in the FY-1958 Military Construction Program (MCP).

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b. The Discoverer programs require facilities to support the following essential functions; test direction, booster and satellite assembly, and checkout maintenance and repair; launch and launch instrumentation; satellite tracking, control, and telemetry; capsule recovery; and data interpretation and dissemination. Facilities description and function are contained in Appendix I to this Annex.

3. SAMOS TECHNICAL SUPPORT FACILITIES PROGRAM

a. Consolidated facilities requirements for the SAMOS development program are outlined in Appendix I to this Annex. These facilities requirements were included in the FY 1959 and FY 1960 Military Construction Programs to insure their availability on a schedule compatible with other phases of the total space system effort. Facilities outlined are required to support the following functions of the program, booster and vehicle assembly, checkout and launch, satellite tracking, control and telemetry, data reception, interpretation and dissemination.

4. MIDAS TECHNICAL SUPPORT FACILITIES PROGRAM

a. The MIDAS facilities program supports the flight test and operational phases of the MIDAS program (ICBM Attack Alarm System). These facilities are required to support the following functions: Launch, booster and vehicle assembly, checkout, maintenance and repair, satellite tracking, control and telemetry; infrared reconnaissance data reception and verification, and data interpretation and dissemination. These requirements will be satisfied by utilizing existing or modified facilities presently programmed for SMAOS, along with new installations as required. Detailed MIDAS facility requirements are contained in Appendix I of this Annex.

5. NON-TECHNICAL FACILITIES PROGRAMS

a. Personnel and non-technical support facilities are not included in the facilities program as all technical facilities for the development program were

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sited to take advantage of support available at existing military bases, or contractor plants.

b. Facilities requirements in this area will have to be reviewed and evaluated against anticipated operational requirements.

6. FACILITIES MANAGEMENT

a. Operating, maintenance and accountability functions of facilities management for the Discoverer, SAMOS/MIDAS programs are determined primarily by the facilities situation at each operating location. Contractor responsibilities for facilities management during the development program are authorized with the contract work statement. Facilities management of Personnel and non-technical facilities, roads, and utilities are normally the responsibility of the installations staff of the host base. The acceptance of technical support facilities from the Corps of Engineers by the USAF under Real Property account procedures are normally a function of the host base installations office. In the case where a host base installations office has not been designated, AFBMD will accomplish acceptance of facilities, as required.

7. TASKS AND RESPONSIBILITIES

Tasks and responsibilities for development of facilities requirements, programs and management are outlined in Appendix II of this Annex.

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APPENDIX I

DISCOVERER - SAMOS - MIDAS

FACILITIES DESCRIPTION AND FUNCTIONS

TO

ANNEX F

INSTALLATIONS

AFBMD OPERATIONAL PLAN

(6594TH TEST WING)

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APPENDIX I

FACILITIES DESCRIPTION AND FUNCTIONS

1. GENERAL

Technical support facilities description and the functions of these facilities for DISCOVERER, SAMOS and MIDAS are outlined in the subsequent paragraphs. This facilities information is furnished for the purpose of providing specific reference tothe 6594th Satellite Test Wing staff for developing and implementing their facilities and/or installations planning.

2. DISCOVERER FACILITIES DESCRIPTION AND FUNCTIONS

a. The existing facilities required to support theDISCOVERER program and their function are as follows:

LOCATION	FACILITY DESCRIPTION	FUNCTION
Vandenberg AFB Launch Base	Administration Building Bldg T-11356, 1,475 sq ft	Program Direction
	Administration and Storage Bldg. Bldg. T-11363 1,350 sq ft	LMSD Base Services
	Engineering Building Bldg T-11364 2,500 sq ft	LMSD Base Engineering
	Flight Test Opns. and Supply Bldg. T-11362, 1,940 sq ft	Test Opns & Supply
	G. H. E. Bldg. Bldg. T-11354 2,950 sq ft	Maintenance & Storage G. H. E.
	Sub-system "L" Bldg. Bldg. T-11345 2,400 sq ft	Biomedical and Recovery Package Maintenance & Checkout
	G/M Assembly Bldg (Addn Bldg No. 9227) 9,600 sq ft	Missile Checkout
	Shop and Administration Bldg 3200 SF	GSE Maintenance
	Receiving & Storage Bldg. Bldg. T-11344, 2,100 sq ft	LMSD Base Services

LOCATION	FACILITY DESCRIPTION	FUNCTION
	Interim MAB Bldg T-11352, 15,200 sq ft	Missile Checkout
	SM-75 Launch Complex Thor Launch Pads 4 and 5 Associated Blockhouses and Servic Structures	Launch Thor-boosted Discoverer vehicles at maximum rate of two per month
Vandenberg AFB Tracking Station	VHF Telemetry Receiver Bldg 2,300 sq ft	Launch and Orbital Tracking and Telemetry, Data Reception, trajectory measurements and calculations to determine time to initiate boost.
	60-foot Dish Antenna Tri-Helix Antenna	
	VERLORT Radar Van Installation	
	Mark II Optical Tracker	
Kaena Point Tracking Station Oahu, T.H.	Administration 6,400 sq ft and VHF Telemetry Receiver Bldg with 60-foot Dish Antenna and Tri-Helix Antenna	Orbital Tracking and Telemetry Data Reception
	VERLORT Radar Van Installation	
Point Mugu Tracking Station N.A.M.T.C. Pt Mugu, Calif	VHF Telemetry Van Installation with Tri-Helix Antenna	Launch Ascent Tracking and Telemetry Data Reception
	VERLORT Radar Van Installation	
Pvt. Joe E. Mann (Ship)	VHF Telemetry Van Installation with Tri-Helix Antenna	Final Stage Launch Tracking and Telemetry Data Reception
Annette Tracking Station Annette Is. Alaska	VHF Telemetry Van Installation with Tri-Helix	Orbital Tracking and Telemetry Data Reception Including First Pass Acquisition and Recovery Package Tracking
	VERLORT Radar Van Installation	
Annette Tracking Station Annette Is. Alaska	Pan-Am Leased Personnel Housing	

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LOCATION	FACILITY DESCRIPTION	FUNCTION
Chiniak Tracking Station Cape Chiniak, Alaska	VHF Telemetry Van Installation with Tri-Helix Antenna	Same as Annette Tracking Station
Hawaiian Control Center Hickham, AFB	Existing AC&W Composite Bldg. Wing E of Hale, 6,000 sq ft Makai Bldg.	Center for Direction of Capsule Recovery Operations

3. SAMOS - Facilities Description and Function

a. Consolidated technical support facilities requirements for the SAMOS program which are included in the FY 1959 and FY 1960 Military Construction Programs (MCP) are listed as follows:

(1) Launch Facility - Pt Arguello, California. Description: The complete launch facility will consist of two launch stands with flame deflectors, under pad instrumentation and equipment space, service towers, umbilical masts, fuel storage and teamster facilities, water and electrical power transmission and distribution lines, headstands, an operations building which contains controls and instrumentation and is designed to protect personnel from blast or direct fall back of a missile. Guidance will be effected through use of the GE Mod III Guidance System. Function: These facilities will provide for all ATLAS R&D boosted launchings.

(2) G/M Assembly Building (Interim) - Vandenberg AFB, California. Description: This facility consists of rehabilitated building that provides an assembly and shop area for the AGENA vehicle and its THOR-booster. Rehabilitated buildings also provide office, sub-system, laboratories and shops. Utilities, security fencing and parking areas are also provided. Function: This facility will support the THOR-boosted SAMOS flights from Vandenberg AFB.

(3) G/M Assembly Building (Command & Administration) Vandenberg AFB Description: This facility will provide space for the receiving, assembly, check-out, and maintenance of the AGENA vehicle, its ATLAS booster, components and sub-systems and office space for operating personnel. It will provide office space

[redacted] [redacted]

also for administrative and command personnel directing the overall SAMOS test operation at Vandenberg AFB. It will be of metal frame with masonry and metal siding, and metal roof, on a concrete slab on grade. It will have a total of approximately 100,000 SF of floor space, divided essentially as follows: Vehicle Unit - 60,000 SF and Booster Unit - 40,000 SF. Special purpose areas will be air-conditioned. Other areas will be provided with filtered ventilation air to prevent dust infiltration to a reasonable extent. Function: This facility will support the SAMOS Launch Complex at Pt. Arguello.

(4) Tracking and Telemetry, Vandenberg AFB. Description:

(a) Interim. The interim portion of the tracking and telemetry station consists of one 60 foot diameter TIM-18 Telemetry Antenna, a Telemetry Receiver Building (approximately 2300 SF) a Tri-Helix Telemetry Antenna, a Mod II Radar Antenna with van-mounted equipment, three boresight towers, access roads approximately two miles in length, utilities, security fencing and minor appurtenances. This portion of the complete station has been completed in time to support the early phase launchings from Vandenberg AFB.

(b) Permanent Station. The permanent station will consist of the following, in addition to the interim facility:

(1) UHF Telemetry Antenna, 60 ft diameter dish with radome;

(2) UHF Telemetry Receiver Bldg., approximately 2100 SF;

(3) Vehicle-command Transmitter Building, approximately 1400 SF, with roof-mounted 6 ft diameter antenna;

(4) Angle Tracker Building, approximately 1100 SF;

(5) Administration, Data Acquisition and Processing Bldg, approximately 33,200 SF and [redacted]

(6) Interconnecting roads and instrumentation ducts, utilities, security fencing, etc. All buildings will be of permanent type construction and

[redacted] [redacted]

will be fully air-conditioned as required to maintain electronic equipment reliability. Function: The interim tracking and telemetry station provides an initial ground terminal point at which the performance of the orbiting vehicle is monitored during the early test flights. The permanent station is required for later programs. Its function is to intercept and track the orbiting vehicle; transmit program commands and time signals to the vehicle; receive, index, record telemetry data; exchange trajectory data with other stations and provide for training of personnel for the manning of this or other stations.

(5) Tracking and Telemetry (Data Acquisition), New Boston, New Hampshire

(a) Description: This station will be utilized in support of the SAMOS R&D programs. It will provide the following functions:

(1) Intercept and track the vehicle;

(2) Transmit vehicle program commands and time signals to the vehicle;

(3) Receive, index, record and process telemetry data into its reassembled form;

(4) Transmit telemetry data to the data analysis center;

(5) Receive, process and record vehicle instrumentation and environmental data;

(6) Exchange trajectory and vehicle data with other stations, and

(7) Receive general operational and command information from other stations and the data analysis center. The station is located near Grenier AFB and will utilize its support capability. The station will consist of the

[redacted] [redacted]

[redacted] [redacted]

following:

(a) Vehicle Command Transmitter Bldg., approximately 1300 with roof-mounted, 6 ft antenna, with radome;

(b) Vehicle Command Transmitter Antenna, 6 ft diameter with radome, on concrete support structure;

(c) Data Acquisition and Process Bldg., 35,000 SF;

(d) (2) UHF Telemetry Antennas, 60 ft diameter, with radomes;

(e) (2) UHF Telemetry Receiver Buildings, approximately 2100 SF each;

(f) Angle Tracker Bldg., 1800 SF;

(g) (2) Angle Tracker Antennas, 10 ft diameter, with radomes;

(h) Security Control & Identification Bldg., 150 SF;

(i) Security Fencing and Control Bldgs;

(j) (4) Boresight towers; and

(k) Utilities, roads, and minor appurtenances.

All buildings will be of permanent type construction and will be air conditioned to maintain electronic equipment reliability.

(6) Tracking & Telemetry (Data Acquisition), Ottumwa, Iowa.

Description and Function: This station will provide the same functions and facilities as the New Boston, New Hampshire station. The station will be located at Ottumwa Naval Station (inactive). Existing building are available for utilization as support facilities.

[redacted] [redacted]

[redacted] [redacted]

(7) Tracking and Telemetry Station, Kaena Point, Oahu, T.H.

(a) Description: Interim Station - The interim portion of the tracking and telemetry station consists of one 60 ft. diameter TLM 18 Telemetry Antenna, an Administration and Telemetry Receiver Building (Approximately 6400 SF), a Tri-Helix Telemetry Antenna, a Mod II Radar with van-mounted equipment, three boresight towers, interconnecting instrumentation ducts, an access road approximately two miles in length, approximately two miles of interconnecting roads, security fencing, and utilities. This portion of the complete station has been completed in time to support the early phase launchings from Vandenberg AFB.

(b) Description: Permanent Station - The permanent station will consist of the following, in addition to the interim facility:

(1) Angle Tracker and UHF Telemetry Receiver Bldg., approximately 1800 SF, with roof-mounted, 10 ft diameter Angle Tracker Antenna, and

(2) Vehicle-Command Transmitter Bldg., approximately 1300 SF, security fencing, utilities, etc. All buildings will be constructed of locally available materials where acceptable. They will be fully air conditioned as required to maintain electronic equipment reliability.

Function: The Interim Station provides an initial ground terminal point at which the performance of the orbiting vehicle is monitored during the early test flights. The Permanent Station is required for later programs. Its function is to intercept and track the orbiting vehicle; transmit program commands and time signals to the vehicle; receive, index, record and exchange trajectory data with other stations.

(8) Tracking and Telemetry Station (Recovery)(Command Station) Alaska.

(a) Description: The Alaska Tracking and Telemetry Facility

[redacted] [redacted]

[redacted]

consists of two installations. The first is an existing AC&W site at Chiniak Bay, Kodiak Island. No new construction is required at Chiniak Bay. The second is a new facility at Annette Island, consisting of a Tri-Helix Telemetry Antenna, a Mod II Radar Antenna, two boresight towers, a W. W. V. Antenna Support Pole, Van-mounted receiver, transmitter, power-generating equipment on gravel hard-stands, access road and parking area, perimeter fencing, and minor appurtenances. All construction will be the minimum required to provide a temporary facility for use during the interim launch program. Personnel housing and messing will be provided by the contractor in existing Pan American Airways facilities.

Function: The Alaskan Facilities will insure the acquisition of the vehicle on the first orbital pass, and on subsequent passes, and will command the vehicle to release the recoverable package at the instant required for impact within the desired pick-up zone.

(9) Tracking and Telemetry Station (Down Range Tracking Station), Pt. Mugu, California.

(a) Facility: This facility will provide a down-range tracking and control station for high-latitude launchings from Vandenberg AFB during the interim Thor-booster program. From this station, accurate tracking of the vehicle from launch to second stage burn-out, and ignition command, will be effected.

(b) Description: The facility consists of the following:

(1) Tri-Helix Telemetry Antenna;

(2) Mod II Radar Antenna;

(3) Two boresight towers;

(4) Van-mounted receiver, transmitter, and power-generating equipment and.

[redacted]

[redacted]

[redacted] [redacted]

(5) Minor appurtenances.

(10) Satellite Test Center, Sunnyvale, California

(a) Description: (Increment Nr 1): This is a 54,000 SF building to be located adjacent to the SAMOS roduction plant.

Function: Function of this facility is to control research and development of a large-scale data-gathering weapon system. The facility will serve as a control point for data reception, processing and procedures of the system. Space is provided for the R&D System Test Control Manager, the Development Flight Test Control Organization, managerial contractor, and the technical and administrative personnel conducting the operation of the entire weapon system during the R&D phase. Specific functions provided for are R&D Test Control, communication sub-system operation, engineering evaluation, flight test analysis, scientific data analysis, verification, program information center, administrative offices, office services, maintenance and storage.

(b) Description:(Increment Nr. 2): This is a 46,000 SF addition to the above building and includes the additional elements and expansion of facilities necessary for completely autonomous operation of the center.

(11) Tracking and Telemetry Station, Ft. Stevens, Oregon.

(a) This station was contained in the FY-59 MCP in previous issues of the SAMOS Development Plan, however, it has now been deleted as per directives from DOD.

(12) Technical Operations Control Center and Intelligence Processing Center, Offutt AFB, Omaha, Nebraska(Space Operations Control and Data Processing Facility)

(a) Description: (Increment Nr 1): The Space Operations Control Center and Data Processing Facility will consist of a building having approximately 216,000 sq ft of floor space. [redacted]

Function: Control mission planning and system command control and operation; orbital computations to correlate data from T/A stations and determine, correct, and predict ephemeris data; receive, evaluate and calibrate new reconnaissance data for rapid determination of vehicle equipment performance, and the generation of suitable correction programs and commands to be relayed to the space vehicle, communications center, initial reconnaissance data processing and miscellaneous command administration. The existing original Martin Aircraft Company Plant at Offutt AFB will be modified to satisfy the SOC/DPF requirement.

(b) Description: (Increment Nr 2): The build-up of activated facilities at Offutt AFB will start with the initial SAMOS R&D launches in June 1960. To convert the reconnaissance data generated by the first three flights into formats useable by the intelligence community, a small assemblage of equipment and personnel will be required. Since the main DPF cannot be constructed in sufficient time to meet the first flight date, a small (12,000 sq ft) interim DPF facility, termed "Early Fix" will be required. This facility will continue in use following activation of the main DPF to provide additional offices and space for training and off-line equipment. (Equipment other than that required for the prime mission).

4. MIDAS FACILITIES DESCRIPTION AND FUNCTION

a. General

(1) The MIDAS technical support facilities program supports the flight test and operational phases of the MIDAS program. The MIDAS flight test program (Phase I) will be conducted at AFMTC utilizing the present ATLAS launch complex 14, as modified by Convair and Lockheed Missile Systems Division. Assembly Building "E" will be utilized for missile assembly and checkout prior to launch.

[redacted] [redacted]

Minor modification of the Assembly Building "E: interior is required to support this function. Maximum utilization will be made of existing range instrumentation. SAMOS VHF facilities at Vandenberg AFB will be utilized for reconnaissance data readout from the AFMTC launched satellites. An addition of approximately 3000 SF to the Data Acquisition and Processing Building at the Vandenberg AFB Tracking Station is required to support this phase of the program. The facilities to be utilized at Vandenberg AFB and Hawaii were programmed in FY 58 MCP and were included in the SAMOS Development Plan. Beginning with the Flight Test Program (Phase I), space will be utilized for Attack Alarm System data analysis and display in the Sentry Satellite Test Center at Sunnyvale, California.

(2) Initial launchings from Vandenberg AFB (Phase II) will utilize the SAMOS/ATLAS launch complex at Pt Arguello and the SAMOS/ATLAS missile assembly building. These facilities were authorized by ARPA Order No. 41-59 and were included in the SAMOS Development Plan. Initial launch and predicted orbit data for the Phase II flights will be obtained with existing VHF facilities at Vandenberg AFB Tracking Station and the downrange telemetry ship. Orbital UHF tracking, telemetry, commands and narrow band test data readout for Phase II flights will be accomplished at the Vandenberg AFB, Hawaii, and New Boston stations. Existing or programmed SAMOS facilities will suffice for the Phase II flights.

(3) The Operational Attack Alarm System (Phase III) will necessitate the construction of an additional launch complex at Pt Arguello with three launch stands and the addition of two bays to the SAMOS/ATLAS missile assembly building. The initial Operational Attack Alarm System readout and command capability (Phase III) will be provided by the construction of a MIDAS Readout Station in

[redacted] [redacted]

[redacted]

Alaska. Operational build-up will require additional MIDAS Readout Stations in [redacted]

(a) Facilities Description.

(1) Location	Launch Facilities	Function
Pt. Arguello	(Pt. Arguello Launch Facility Nr 2)	Launch ATLAS boosted MIDAS vehicles
(2) Vandenberg AFB	G/M Assembly Bldg.(Addn) (Two additional booster Checkout bays)	Missile Checkout Serve Pt. Arguello Launch Complexes Nr land 2
(3) Vandenberg AFB	Tracking & Telemetry Addition to Data Acquisition & Processing Bldg (3000 SF)	Installation of electronic Equip. for Attack alarm System data read out.
(4) New Boston New Hampshire	Tracking & Telemetry (Addition - 2500 SF to receiver building assoc. antenna and radome support structures)	MIDAS performance monitoring testing and and infrared readout for initial R&D Phase II
(5) Ottumwa, Iowa	Tracking & Telemetry (Addition - 2500 SF Receiver building & assoc. antenna and radome support)	MIDAS performance monitoring, testing and infrared readout for the operational attack alarm system, Phase III
(6) Alaska	Tracking & Telemetry (Attack Alarm Readout Station) [redacted]	

Description: This facility is an Attach Alarm Readout Station consisting of the following: One Data Processing, Communication and Administration Building - 6000 SF, three

[redacted]

Receiving Buildings - 2500 SF each, three Receiver Antenna and Radome Support structures, one Command Transmitter - 1500 SF, one Transmitter Antenna and Radome Support structure, one Storage Building - 2000 SF, four boresight towers, and utilities and site development.

Function: This facility is required to readout Attack Alarm Data from satellites. All tracking, programming, performance monitoring and routine testing is to be accomplished by SAMOS stations within the U.S. Only Attach Alarm Data and Alarm Command to the satellites are to originate at this station, and only a minimum of equipment for reliability and continuous operation will be installed.

(7) North Atlantic - Tracking & Telemetry
(Attack Alarm Readout Station)

Description: Same as Alaska Readout Station

Function: Same as Alaska Readout Station.

[redacted]

(9) Patrick AFB - G/M Assembly Bldg (MOD) Missile checkout.
Modification to Missile
Assembly Building "E"
to provide support to
Phase I R&D flights.

[redacted]

[redacted]

APPENDIX II

FACILITIES MANAGEMENT

(TASKS AND RESPONSIBILITIES)

TO

ANNEX F

INSTALLATIONS

TO

AFBMD OPERATIONAL PLAN

(6594TH TEST WING)

[redacted]

[redacted] [redacted]

APPENDIX II

FACILITIES MANAGEMENT

1. GENERAL

a. As outlined in Annex F, for the most part, all actions concerning the development of technical support facilities required to support the DISCOVERER, SAMOS and MIDAS programs have been accomplished. However, the operational planning, programming agencies and using commands will be required to constantly review the current technical support facilities program for adequacy in meeting operational requirements and the establishment of new facilities requirements for support of the operational employment program.

2. TASKS AND RESPONSIBILITIES

a. AFBMD will:

(1) Participate as a member of the site selection teams required for selection of operating site locations with the ZI and overseas.

(2) Establish Master planning requirements for all DISCOVERER, SAMOS, MIDAS operating locations and administer necessary contracts to A&E firms for development of Master Planning facilities drawings.

(3) Responsible for the establishment and approval of design criteria of technical and support facilities required for the DISCOVERER, SAMOS/MIDAS programs through the development contractor.

(4) Responsible for the development of necessary budget and funding programs for Master Construction programs (MCP) for construction, modification and rehabilitation of required technical support facilities for these programs.

(5) Responsible for the establishment of construction programs schedules with the construction agencies (Corps of Engineers and 11th Naval District).

[redacted] [redacted]

(6) Responsible for the provision of facilities operating and facility maintenance function in R&D contracts, as required.

(7) Responsible for acceptance of Real Property facilities in locations where an Air Installation Officer has not been delegated.

b. 6594th Satellite Test Wing will:

(1) Establish a central Master Facilities Plans file for reference purposes.

(2) Participate in facilities design reviews of technical and non-technical facilities for compliance with operations agreements and concepts of operation.

(3) Participate as requested in surveys of technical facilities for SAMOS and MIDAS for purposes of selecting those facilities to be supported by SAMOS/MIDAS LSM and those to be supported by the host supporting base.

(4) Perform periodic staff visits to remote operating locations for purposes of determining adequacy and serviceability of personnel and non-technical support facilities assigned for use to subordinate units.

(5) Establish personnel and non-technical support facilities requirements at all operations locations and participate in annual AFR 11-4 Base Support Agreements with host base and command concerned.

c. AMC (SAMOS/MIDAS LSM) will:

(1) Accomplish those Real property functions and support as outlined in Annex D of this plan.

d. Host base will:

(1) Perform acceptance for USAF of Real Property facilities constructed for DISCOVERER, SAMOS & MIDAS programs in their area of responsibility or as

assigned.

(2) Review and provide necessary personnel and non-technical facilities, required by DISCOVERER, SAMOS and MIDAS contractor and military agencies.

(3) Responsible for the operation of support utilities, roads, etc, and facility maintenance, functions for technical, non-technical and personnel support facilities utilized by DISCOVERER, SAMOS/MIDAS units as determined by proper survey, to be the responsibility of the host base.

[redacted]

ANNEX G

WING HEADQUARTERS ADMINISTRATION & LOGISTICS

TO

AFBMD OPERATIONS PLAN

SERIAL NO. 2-59

(6594TH TEST WING)

[redacted]

[redacted]

ANNEX G

TO

WING HEADQUARTERS ADMINISTRATION AND LOGISTICS

1. GENERAL:

a. The Air Force Ballistic Missile Division (AFBMD) will furnish major air command assistance to the 6594th Satellite Test Wing, Sunnyvale, California as required.

b. To adequately support assigned missions, this Annex with Appendices will be revised as required.

2. TABLE OF CONTENTS:

[redacted] [redacted]

APPENDIX 1

TO

ANNEX G

WING HEADQUARTERS ADMINISTRATION AND LOGISTICS

TO

AFBMD OPERATIONS PLAN

2-59

(6594TH TEST WING)

APPENDIX 1
ANNEX G
AFBMD OPS PLAN
2-59
WDZSO-207

[redacted] [redacted]

APPENDIX 1

ANNEX G WING HEADQUARTERS LOGISTICS AND ADMINISTRATION TO OPS PLAN 2-59

1. ADMINISTRATION:

a. AFBMD directives which are applicable to the 6594th Satellite Test Wing will be published in the form of AFBMD Installation Regulations.

2. CORRESPONDENCE MANAGEMENT:

a. Correspondence and message processing will be operated as prescribed in applicable USAF, ARDC and AFBMD directives.

3. RECORDS MANAGEMENT:

a. Files of current records will be maintained in accordance with AFR 181-4. Records Control Schedules will be prepared and forwarded to the AFBMD Records Management Officer for review and approval. The AFBMD Records Management Officer will furnish advice and assistance by means of AFBMD Installation Regulations and personal visits.

4. PUBLICATIONS AND FORMS MANAGEMENT:

a. The Director of Administrative Services, AFBMD will provide AFBMD publications and forms, and furnish staff supervision of the Publications and Forms Management Programs. Departmental and Air Force publications and forms will be obtained from the AF Publications Distribution Center through the PDO account established for the 6594th Satellite Test Wing. Hq ARDC publications and forms will be obtained direct from Hq ARDC. The 6594th Satellite Test Wing is authorized to issue internal directives and forms as required for the expeditious accomplishment of the mission of the Wing, its squadrons and operating locations.

5. REPRODUCTION AND PRINTING:

a. Lockheed Aircraft Corporation should provide duplicating service. The 6594th Satellite Test Wing coordinate requirements with the Lockheed Aircraft Corporation.

[redacted]

[redacted]

6. ADMINISTRATIVE ORDERS:

a. The 6594th Satellite Test Wing will issue all Temporary Duty Travel Orders for assigned military and civilian personnel for travel within the continental limits of the United States and for travel to the Hawaiian and Alaskan Areas in support of the SAMOS, DISCOVERER and MIDAS, or other assigned programs. Leave orders for assigned military personnel for travel outside the continental limits of the United States will be issued by the 6594th Satellite Test Wing. The Director of Administrative Services, AFBMD, will furnish detailed instructions and assistance for the issuance of orders. The Comptroller, AFBMD, will provide necessary funds.

b. The 6594th Satellite Test Wing will issue Travel Authorizations for contractor personnel for travel to Hawaii and Alaska and such other places as may be necessary to accomplish the mission. No fund citation is necessary as Travel Authorizations are issued solely to provide for military, non-revenue travel by military or government auto.

c. The 6594th Satellite Test Wing will issue other orders as required for performance of their mission with the exception of Permanent Change of Station Orders, which will be issued by AFBMD.

7. MAIL AND POSTAL:

a. The 6594th Satellite Test Wing will coordinate mail and postal requirements with AFBMD. The Director of Administrative Services, AFBMD, will provide Staff Assistance by personnel visits or as requested by the 6594th Satellite Test Wing.

8. MESSENGER SERVICE:

a. The 6594th Satellite Test Wing will coordinate with the Lockheed Aircraft Corporation the requirement for messenger service between the 6594th Satellite Test Wing and the Lockheed Aircraft Corporation.

[redacted]

[redacted] [redacted]

9. TECHNICAL INFORMATION:

A. The 6594th Satellite Test Wing will establish internal procedures for the receipt, control and distribution of technical information in accordance with AFBMD Installation Regulation 11-1. Staff assistance will be furnished by the Director of Administrative Services, AFBMD.

[redacted] [redacted]

APPENDIX 2

TO

ANNEX G

WING HEADQUARTERS ADMINISTRATION & LOGISTICS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

[redacted] [redacted]

[redacted] [redacted]

APPENDIX 2

ANNEX G WING HEADQUARTERS LOGISTICS AND ADMINISTRATION TO OPS PLAN 2-59

1. WING-CONTRACTOR RELATIONSHIP:

a. The 6594th Satellite Test Wing will not be responsible for the contractor effort in connection with logistical support of the flight test program during the R&D effort.

2. WING RESPONSIBILITIES:

a. Materiel planning for the administrative support of the Wing and subordinate units.

b. Budgeting and funding for the administrative support of the Wing and its subordinate units.

c. Equipment authorization document revisions and maintenance.

d. Surveillance of support agreements with Air Force or DOD activities for services required by the Wing or subordinate units.

e. Providing UAL equipment at test sites for use by contractor during installation and checkout if required.

3. AFBMD RESPONSIBILITIES:

a. AFBMD will be responsible for the surveillance of material activities and other logistic actions normally performed by a numbered Air Force. AFBMD will be responsible for major air command action in instances where authority has been delegated by ARDC.

4. SUPPORT OF WING HEADQUARTERS, STC AND SUBORDINATE UNITS:

	Scope
Wing Headquarters and Satellite Test Center	Administration, facilities and housekeeping: Base support agreement is in negotiation with Hamilton Air Force Base and Air Defense Command to provide supply support and other military type services. (cont'd)

[redacted] [redacted]

[redacted]

	Scope (cont'd)
	Housekeeping services and supplies for Wing Hq and STC will be furnished by LMSD in accordance with contract now negotiated or to be negotiated between LMSD and Air Force Contracting Officer.
	Technical Support: Provided by LMSD
6594th Recovery Control Group	Scheduled for activation 1 Nov 59. Support agreement in process of negotiation with Pacific Air Force for support of organizition at Hickam Air Force Base.
6593rd Test Squadron (SP)	Support furnished by 6486th Air Base Wing PACAF at Hickam Air Force Base in accordance with support agreement with Pacific Air Force 19 Jun 59.
6593rd Instrumentation Squadron	Scheduled for activiation 1 Nov 59. Support agreement in process of negotiation with Pacific Air Force for support of organization at Wheeler Air Force Base.
6594th Instrumentation Squadron	Support furnished by 2335th Air Base Sq., at Grenier Air Force Base in accordance with support agreement with Continental Air Command 27 May 59.
6595th Instrumentation Squadron	Support to be furnished by augmentation to the Squadron.
6594th Launch Squadron	AFBMD Field Office at Vandenberg is arranging for support.
6596th Instrumentation Squadron	AFBMD Field Office at Vandenberg is arranging for support.
4999th Data Processing Squadron	Support agreement in process of negotiation with SAC for support of organization at Offutt Air Force Base.

5. TRANSPORTATION:

a. The mode of transportation selected for a given purpose shall be determined by its adequacy, feasibility, practicality, and overall economy. Air transportation will be considered as a normal mode of transportation, but not necessarily the normal mode when other modes will satisfy requirements at lower overall cost.

[redacted]

[redacted]

(1) Normal commercial transportation facilities will be utilized by the contractors whenever such facilities are adequate, considering such factors as capability, security, and delivery deadlines. The contractor should avail himself of the services of the AFPR in arranging for shipments, by commercial means, exceeding 10,000 pounds or comprising truck-load, car-load, or plane-load lots. If the AFPR does not have a transportation representative assigned, AFBMD (ATTN: WDSMT) may be contacted for guidance and/or assistance.

(2) Transportation requirements that must be satisfactied by Military Airlift by reason of size, security aspects, delivery dates, etc., will be programmed through AFBMD and will be identified by the 5th of the fourth month preceding the month airlift is needed, i. e., by 5 August, requirement will be identified for December, firm, with an estimate of January and February military airlift needs. Military Transportation Requirements will include the following information:

(a) Weight

(b) Cube

(c) Dimensions of largest pieces

(d) Origin

(e) Destination

(f) Ready date

(g) Deadline delivery date

(h) Contact at origin (Name and telephone)

(i) Contact and destination (Name and telephone)

(j) Special pertinent remarks, i. e., classification, special enroute requirements, etc.

(3) The prime contractor will be responsible for insuring that Military Airlift requirements of subcontractors are identified accurately and in time.

[redacted]

b. Motor Transportation will be provided by Military vehicles when available. When military vehicles are not available, General Services Administration vehicles will be used in lieu of.

[redacted]

APPENDIX 3

LEGAL

TO

ANNEX G

WING HEADQUARTERS ADMINISTRATION AND LOGISTICS

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

[redacted]

[redacted] [redacted]

APPENDIX 3

LEGAL

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

1. COURT-MARTIAL JURISDICTION:

a. Court-martial jurisdiction for military personnel assigned to Hq 6594th Satellite Test Wing will be the same as that exercised over Detachment #2, Hq ARDC (AFBMD).

b. General Order Number 18, Hq ARDC dated 4 Feb 1958, will thus apply to airmen personnel assigned to Hq 6594th Satellite Test Wing at Palo Alto, California, i.e., general and special court-martial jurisdiction of airmen will be exercised by the Commander, AFFTC, Edwards Air Force Base, California. Summary court-martial over such personnel will be exercised by the Commander, 6594th Satellite Test Wing.

c. Court-martial jurisdiction and Article 15 UCMJ over officer and warrant officer personnel will remain with the Commander, Hq ARDC, Andrews AFB, Wash, D. C.

2. ADMINISTRATIVE BOARD PROCEEDINGS:

Administrative actions required by AFR's 35-62, 36-2, 39-16, 39-17, and other directives affecting airmen assigned to Hq 6594th Satellite Test Wing will follow pertinent AF Regulations and be governed by appropriate echelon of court-martial authority enumerated in Section 1 above.

3. ATTACHMENT FOR LEGAL AND ADMINISTRATIVE PROCEEDINGS:

Military personnel assigned to subordinate units of the 6594th Satellite Test Wing will be attached for legal and administrative proceedings to the military base they are on or near, through the media of concurrent use agreements implemented by the issuance of appropriate general orders of attachment, in accordance with paragraph 5, AFR 11-4.

[redacted]

[redacted]

[redacted]

4. CLAIMS, LEGAL ASSISTANCE AND MILITARY AFFAIRS:

Military personnel assigned to subordinate units of the 6594th Satellite Test Wing will utilize the legal services of the Staff Judge Advocate of the accomodating base for such matters as claims, legal assistance and questions involving military affairs.

[redacted]

[redacted] [redacted]

APPENDIX 4

COMPTROLLER

TO

ANNEX G

WING HEADQUARTERS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

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(6594TH TEST WING)

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APPENDIX 4

ANNEX G WING HEADQUARTERS LOGISTICS AND ADMINISTRATION OPS 2-59

COMPTROLLER

1. BUDGET:

a. AFBMD accomplished the First Revision to the FY 1960 6594th Satellite Test Wing Annual Financial Plan.

b. The 6594th Satellite Test Wing will prepare the Second Revision to its FY 1960 Annual Financial Plan and subsequent Financial Plans. Financial Plan Revisions, and Budget Estimates involving Operation and Management Funds Requirements for the Wing will include all of its subordinate activities. AFBMD will be the review agency for all 6594th Satellite Test Wing fund requirement documents.

c. AFBMD will continue to issue Obligation Authorities to the Wing and Subordinate activities through the Second Quarter, FY 1960.

d. AFBMD will receive sub-allocations of Operations and Management Funds and will, in turn, make allotments to the Wing effective the Third Quarter of FY 1960.

e. Fund requirements peculiar to the testing of a particular space system will be programmed in the appropriate Space System Development Plan prepared by AFBMD.

2. ACCOUNTING AND FINANCE:

a. The 6594th Satellite Test Wing Accounting and Finance Office will perform operations as prescribed in applicable USAF, ARDC and AFBMD directives.

b. AFBMD will allot all Operation and Management funds to the 6594th Satellite Test Wing effective Third Quarter, FY 1960.

c. The 6594th Satellite Test Wing will obtain an accounting and disbursing symbol and obtain the necessary authority to disburse and collect funds.

[redacted]

[redacted]

[redacted]

3. STATISTICAL SERVICES:

a. Statistical services activities as described in AFM 170-6 and AFR 174-1 will be performed by 6594 Satellite Test Wing.

4. MANAGEMENT ANALYSIS:

a. Management analysis activities as described in AFM's 170-2 and 170-6 will be performed by the 6594th Satellite Test Wing.

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ANNEX G
AFBMD OPS PLAN 2-59
WDZSO-207

[redacted]

[redacted]

APPENDIX 5

TO

ANNEX G, WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

INSPECTION, SECURITY AND LAW ENFORCEMENT

(6594TH TEST WING)

[redacted]

[redacted]

APPENDIX 5

INSPECTION, SECURITY AND LAW ENFORCEMENT

1. INSPECTION:

a. The Director of Security, AFBMD, will provide policy and guidance on any matters associated with Inspector General type functions.

g. The Commander, 6594th Satellite Test Wing will insure that inspections are accomplished on Special Subject Regulations as required by AFR 123-8, and that monthly personal conference periods are conducted in accordance with AFR 123-11.

2. SECURITY AND LAW ENFORCEMENT:

a. The security and law enforcement functions of the 6594th Satellite Test Wing will be conducted in accordance with the policies established in the applicable USAF and ARDC 125 and 205 series directives.

b. Security classification guidance and security policy for SAMOS/MIDAS Military Space Systems will be furnished by the Commander, Air Force Ballistic Missile Division, through the medium of Master Security Classification Guides.

c. The Commander, 6594th Satellite Test Wing, is authorized to grant personnel security clearances in accordance with AFR 205-6.

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APPENDIX 6

TO

ANNEX G, WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

MEDICAL

(6594TH TEST WING)

[redacted] [redacted]

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APPENDIX 6

MEDICAL

1. GENERAL:

a. The Government medical facilities in the Sunnyvale area capable of providing outpatient and inpatient medical and dental care include the Naval Hospital, Moffett Field, Sunnyvale and theVA Hospital, Palo Alto. In the San Francisco area large government medical facilities exist such as Letterman Army Hospital and Oak Knoll Naval Hospital. These are capable of furnishing definitive medical and dental care. General well-equipped and staffed civilian hospitals are also available.

2. CARE OF MILITARY PERSONNEL.

a. The Commander, 6594th Satellite Test Wing, will contact the available government medical facilities in his area and in the San Francisco area to determine the medical and dental support which can be provided his personnel. Preliminary investigations indicate that the Naval Hospital, Moffett Field can provide outpatient medical care including physical examinations for military personnel and will transfer inpatients to larger medical facilities in the San Francisco area when indicated. Dental care will probably be limited to emergencies.

3. CARE OF DEPENDENTS.

a. There is a large number of dependents in the Sunnyvale area including those of many retired military personnel; so local medical care will be quite limited and dental care non-existent from government medical facilities.

b. The Naval Hospital, Moffett Field will provide medical care available within its limited resources; however dental care is not available. Appointments should be made except in emergencies.

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c. When the Naval Hospital, Moffett Field cannot provide medical care required for hospitalization, a permit will be obtained from the Naval Hospital under the provisions of AFR 160-41, (SECNAVINST 6320.8), to obtain the treatment at a civilain hospital; provided the care needed comes under the medicare law.

4. EMERGENCIES:

a. Military personnel requiring emergency medical care will contact the Moffett Field Naval Hospital. If the required care is not available a civilian doctor and, if necessary, a civilian hospital may be utilized under the provisions of AFR 160-53.

b. Dependents may seek emergency hospitalization at a civilian hospital when that facility is closer. A permit is not required under this circumstance.

5. AIR FORCE DISPENSARY:

a. As the 6594th Satellite Test Wing grows it will be necessary for it to include a Class B dispensary to provide outpatient care. Then the dispensary will furnish normal out-patient medical care for military personnel and, within the capability of the medical staff, for their dependents. Military patients requiring hospitalization will be transferred to the nearest government hospital able to care for them. Dependents requiring hospitalization will be sent to a military hospital which will accept them if deemed advisable by the surgeon to a civilian hospital. The Staff Surgeon will direct the professional activities of the dispensary.

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APPENDIX 7

INFORMATION

TO

ANNEX G WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

APPENDIX 7
ANNEX G
AFBMD OPS PLAN 2-59
WDZSO-207

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APPENDIX 7

INFORMATION PLAN

[redacted] [redacted]

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INFORMATION PLAN

1. Mission: The Director of Information Services, 6594TH Test Wing, will be responsible to the Wing Commander for planning, coordination, and implementation of the Public Information Program incident to the release of information, copy, photographs, speeches, presentations, displays, and other media material concerning the conduct of command mission activities to local and National Groups and Press Representatives. This program will be manifested in accordance with current regulations and directives emanating from the Department of Air Force, Advanced Research Projects Agency, Air Research & Development Command, and Air Force Ballistic Missile Division.

2. Scope: This plan is directive to all 6594th Test Wing elements, assigned or attached for operational purposes, at all on-and off-site locations.

3. Concept: The 6594th Test Wing Public Information Program will be implemented concurrently with the official announcement of the existence of the Wing Headquarters.

(A) Following the official announcement, and throughout the development of the Wing into a firm organizational structure, the Information Services Officer will serve in liaison and coordinating capacity as a representative of the Office of Information Services, Air Force Ballistic Missile Division, for collection and verification of information to be released at the discretion of the Air Force Ballistic Division.

(B) Until modification of this plan, the 6594th Test Wing will have no original release authority, and will maintain a passive public information policy. Responses to queries will utilize only previously cleared material.

4. Organization: The Director of Information Services will be assigned to the Personal Staff of the Commander, 6594th Test Wing, and will be physically located

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in the Wing Headquarters. The information services responsibilities of the Commander will be projected to all subordinate elements, assigned or attached for operational purposes, at off-site locations through the designation, by echelon Commanders of additional duty Information Services Officers.

5. Objectives: The Public Information objective of the 6594th Test Wing will be to develope, within the limitations of security, a local and national awareness of the conduct of the Wing mission. The local aspects of the program, present in both Public Information and Community Relations procedures, will be directed towards establishing the command as a permanent, welcome, and valuable section of the communities in which Test Wing personnel reside and work. The national efforts will be aligned with Air Force Ballistic Missile Division policies to develope awareness and appreciation which will afford broad national support to the progress of the Ballistic Missile Research, Development, Production, Construction, Training, and Operational Responsibilities with which the 6594th Test Wing is charged.

6. Techniques:

(A) Public Information: Routine public information operational methods will be employed, including news releases and articles, photographs, picture film, brochures, press kits, interviews, press conferences, escorted tours by press media representatives of on-and off-site locations, answers to media queries, and other standard approaches to the responsibility to generate interesting, pertinent, accurate and unclassified news for mass consumption.

(B) Community Relations: There are many overlapping effects of public information and community relations programs which must be considered from both points of view. The pure community relations activities will include operation of a Speakers' Bureau made up of Information Services Officers and Staff Officers,

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maintenance of a film library composed of unclassified released motion picture film, participation of officer and enlisted personnel in civic groups, escorted tours of civic, social and educational groups through on-and off-site locations, educational displays and presentations for use by groups, and response to queries and requests from civic, social and religious groups.

7. Basic Context: The Information Services Officer, 6594th Test Wing, will have primary responsibility for the development of the mechanics of generation, reception, and dissemination of pertinent releasable news material about the conduct of the Test Wing. This responsibility will include preparation of brochures, fact sheets, and news releases, and still and motion picture photographc, concerning the DISCOVERER, MIDAS, and SAMOS Satellite Systems, and other systems which might be assigned to the Wing.

8. Specific Responsibilities:

a. Pre-Launch: During preparation for launch of satellite systems included in the mission of the 6594th Test Wing, the Information Services Officer will serve in a liaison and coordination capacity as a representative of the Office of Information Services for collection and verification of information to be released at the discretion of the Air Force Ballistic Missile Division.

b. Launch:

(1) On-Site: Immediately pripr to and during launch activities, the Information Services Officer, 6594th Test Wing, will be physically present in the Program Information Center as a representative of the Office of Information Services, Air Force Ballistic Missile Division.

(2) Off-Site: While on temporary duty at off-site locations during launch activities, the Information Services Officer, 6594th Test Wing, will become a

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representative of the Office of Information Services, Air Force Ballistic Missile Division, to be utilized to fulfill Information Services requirements directed.

c. Post-Launch: The Information Services Officer, 6594th Test Wing, will be responsible for keeping the Office of Information Services, Air Force Ballistic Missile Division, informed about pertinent developments in orbital activity.

d. Contractor Relations: Relations between the Office of Information Services, Air Force Ballistic Missile Division, and Prime contractors in programs included in the mission of the 6594th Test Wing will remain intact without establishment of additional lines of communication. Air Force Ballistic Missile Division and Prime contractors will keep the Information Services Officer, 6594th Test Wing, current on all developments and agreements pertaining to operational developments and information services activities in which the 6594th Test Wing is involved.

[redacted]

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APPENDIX 8

PERSONNEL

TO

ANNEX G, WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

[redacted]

[redacted] [redacted]

APPENDIX 8

PERSONNEL

1. MILITARY PERSONNEL:

a. The Commander, 6594th Satellite Test Wing, Sunnyvale, California, is directly responsible to the Commander, AFBMD, for the management of all ARDC military personnel assigned to the 6594th Satellite Test Wing and subordinate units.

b. The Commander 6594th Recovery Group will be directly responsible to the Commander, 6594th Satellite Test Wing for the management of all military personnel assigned to the 6594th Recovery Group, 6593rd Test Squadron (Special), and 6593rd Instrumentation Squadron will be attached to the 6486th Air Base Wing, PACAF, Hickam AFB, Hawaii for administrative and logistic support.

d. Specific responsibilities are as outlined:

(1) Personnel Procurement.

(a) The Commander, 6594th STW, is responsible for personnel planning and provision of specific personnel requirements data.

(b) The Commander, AFBMD, will be responsible for the manning of the 6594th STW and subordinate units. The Commander, 6594th STW will prepare and submit officer and airmen personnel requisitions for the 6594th STW and all subordinate units. Requisitions will be submitted quarterly beginning 1 January 1960. Areas of personnel procurement responsibilities are as follows.

(2) Reassignements.

(a) The Commander, 6594th STW will be responsible for determining necessity for reassignments of officers within the Wing and all subordinate units and will initiate reassignment requests to the Commander, AFBMD, for approval.

[redacted] [redacted]

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(b) The Commander, 6594th STW is delegated authority to reassign airmen personnel within the Wing and subordinate units, excluding units located in overseas locations. Reassignment of military personnel to and from overseas locations will be governed by current directives and requests for reassignment to and from overseas locations will be forwarded to the Commander, AFBMD for consideration.

(c) The commander AFBMD will have final approval from the reassignment of all individuals to and from the 6594th STW units and other ARDC units.

(3) Military Personnel Records System.

(a) The 6594th STW will maintain the personnel records for all Headquarters 6594th STW personnel. Triplicate copy of officer Effectiveness Reports will be maintained at AFBMD.

(b) The maintenance of the military personnel records for personnel assigned to the 6594th Recovery Group, 6593rd Test Squadron (Special) and 6593rd Instrumentation Squadron will be the responsibility of the Commander, 6486th Air Base Wing. Hickam AFB, PACAF.

(4) Medical and Pay Records

(a) Medical and pay records will accompany all individuals to duty stations for use in securing medical support and pay from the military installation to which the unit is attached for administration and logistic support.

(b) The 6594th Recovery Group, 6594th Test Squadron (Special) and the 6593rd Instrumentation Squadron will secure medical support and pay from the 6486th Air Base Wing, Hickam AFB, PACAF.

(5) Promotions

(a) Officer promotion program.

1. AFBMD will prepare and submit necessary reports as required to implement temporary promotion programs.

[redacted]

2. AFBMD will exercise temporary promotion authority under AFR 36-13, 36-24, 36-30, 36-45, 36-56, and 36-38.

(b) Airmen promotion program

1. The Commander, 6594th STW is delegated authority to promote airmen to grades A/3C, A/2C and A/1C.

2. The Commander, AFBMD, will make final selection of airmen to be promoted to grades S/Sgt, T/Sgt, and Master Sergeant. Final selections will be announced on Hq 6594th STW Special Orders.

3. Hq ARDC will make final selection of airmen to be promoted to grades E-8 and E-9. Final selections will be announced on AFBMD Special Orders.

(6) Separations.

(a) The Commander, 6594th STW will review and process request for separation actions originating within the Wing and all subordinate units, and will initiate final action where final authority for such action rests with the 6594th STW. In these cases where final authority is retained by AFBMD, Hq ARDC or Hq USAF, requests will be forwarded for consideration in accordance with pertinent directives.

(7) On-th-Job Training.

(a) The Commander 6594th STW, will be responsible for the OJT programs of the Wing and all subordinate units.

(8) Personnel Services

(a) The Commander, 6594th STW will administer the Personnel Services program for the Wing and all subordinate units. Coordination with military organizations adjacent to duty stations will be accomplished to provide adequate personnel services.

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2. SERVICES

a. The Commander AFBMD, will administer the civilian personnel assigned to the 6594th STW. Units located in other geographical areas, including overseas, will be serviced by the nearest Air Force Central Civilian Personnel Office.

3. PERSONNEL REPORTING

a. The Commander 6594th STW will be responsible for the preparation and submission of morning reports for the Wing and subordinate units, excluding the 6593rd Test Squadron (Special), 6594th Recovery Group, and 6593rd Instrumentation Squadron. Morning reports for the subordinate units named above will be submitted by the 6486th Air Base Wing, Hicam AFB, PACAF.

b. The Commander, 6594th Recovery Group will submit electrically transmitted reports as to aircraft crew status for the 6594th Recovery Group, 6593rd Test Squadron (Special) and 6593rd Instrumentation Squadron, to AFBMD, with information copies to the Commander 6594th STW, whenever a change occurs in crew readiness status, due to illness, leave, etc.

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APPENDIX 9

AIRCRAFT OPERATION

TO

ANNEX G, WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

(THIS APPENDIX WILL BE FURNISHED LATER)

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APPENDIX 10

TO

ANNEX G, WING HEADQUARTERS LOGISTICS AND ADMINISTRATION

TO

AFBMD OPERATIONAL PLAN

2-59

(6594TH TEST WING)

CHAPLAIN SERVICES

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APPENDIX 10

CHAPLAIN SERVICES

1. GENERAL:

a. The responsibility for the moral, ethical, and religious life of personnel rests with the Commander, 6594th STW. This responsibility includes assuring that adequate religious services are available, either at military installations or in the civilian community; implementing the Dynamics of Moral Leadership lecture program; and counseling with those who may need assistance. To assist the Commander in this area of responsibility a Staff Chaplain is authorized. AFR 165-3 and other pertinent regulations and manuals in the 165 series are the specific directives.

2. CHAPLAIN SERVICES AT THE WING HEADQUARTERS:

a. The Staff Chaplain, 6594th STW, will implement those portions of the Chaplain program as are appropriate with limited facilities. No chapel facilties are contemplated for the headquarters.

3. CHAPLAIN SERVICES AT SUBORDINATE UNITS:

a. The Staff Chaplain at the 6594th STW will supervise the chaplain program at all units subordinate to the Wing. The policies of the Staff Chaplains at AFBMD, Hq ARDC, and the Chief of Air Force Chaplains will be followed. Regular periodic staff visits will be made to subordinate units in order to adequately supervise the moral and religious life of all personnel assigned to the 6594th STW. Wherever possible, arrangements will be made to gain chaplain support for subordinate units from nearby installations of other Air Force Commands or the local civialian communities. At locations where this is not feasible, and the number of personnel assigned shall warrant it, a Chaplain will be assigned to the subordinate unit.

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4. STAFF CHAPLAIN, AFBMD:

a. The Staff Chaplain, AFBMD (WDSX), will keep the Commander 6594th SIW advised of all policies, changes, and directives in the Chaplain area of activity. In addition, the Staff Chaplain, AFBMD, will monitor all required reports and render assistance in the establishment of an adequate Chaplain program for the 6594th SIW. Only those reports in AFR 165-8 will be required on a regular basis.

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