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Abstract AIR FORCE ACADEMY CONSTRUCTION TOPICS INCLUDE: CONTRACTS; FUNDS; LEGAL; ADMINISTRATION; AND OPERATIONS. REAL PROPERTY TOPICS INCLUDE: MILITARY CONSTRUCTION PROGRAM (MCP), FISCAL YEAR 1960 AND FISCAL YEAR 1961; COMMAND PRESENTATIONS; FORCE STRUCTURE CONSTRUCTION AND ESTIMATES; FISCAL YEAR 1960 O AND M BARRACKS MAINTENANCE AND MODERNIZATION PROGRAM; CHAPEL IMPROVEMENT; UTILITIES; EMERGENCY AUTHORIZATION; A-35 REPORT; DEFENSE SYSTEMS, AIRCRAFT CONTROL AND WARNING (ACW); SAGE (SEMI-AUTOMATIC GROUND ENVIRONMENT); FREQUENCY DIVERSITY RADARS; GAP FILLER RADARS; SAGE GATR (GROUND/AIR TRANSMITTER/RECEIVER); BOMARC; BALLISTIC MISSILES AND SPACE SYSTEMS; REAL ESTATE OPERATIONS; TITLE VI CLEARANCE ACQUISITIONS; DISPOSALS; CONDEMNATIONS; BOMARC LAND ACQUISITION; SAGE LAND ACQUISITION; NORAD (NORTH AMERICAN AIR DEFENSE COMMAND); FISCAL YEAR 1960 ICBM (INTERCONTINENTAL BALLISTIC MISSILE) PROGRAM; RETENTION PROGRAM (1959); INVENTORY OF MILITARY REAL PROPERTY; AND UNIFORM CODE OF ACCOUNTS. CONSTRUCTION AND ENGINEERING TOPICS INCLUDE: MASTER PLANNING; BASE COMMUNICATION AND FLIGHT SIMULATOR BUILDINGS; B-52 AIRCRAFT CORROSION CONTROL SHELTER; NORAD COMBAT OPERATIONS CENTER; DEWLINE (DISTANT EARLY WARNING LINE)/BMEWS (BALLISTIC MISSILE EARLY WARNING SYSTEM)/ALASKAN REARWARD COMMUNICATION; DEWLINE EASTERN EXTENSION; FREQUENCY DIVERSITY RADAR PROGRAM, AN/FPS-27; SANITARY ENGINEERING; ELECTRICAL ENGINEERING; APPROVAL OF FISCAL YEAR 1960 MCP; FISCAL YEAR 1960 ACCOUNTABILITY AND APPORTIONMENT; FUNDS RELEASED; CONTRACT AWARDS; MCP AND COST REPORTING; OBLIGATION AND EXPENDITURE LIMITATIONS; OVERSEAS CONSTRUCTION; TM-76 (MACE) MISSILE; FRANCE; KOREA; OKINAWA; PAKISTAN; IWO JIMA; AIR FORCE RESERVE FORCES; ANDREWS AIR FORCE BASE MD; NUCLEAR ENGINEERING TEST FACILITY, WRIGHT PATTERSON AIR FORCE BASE OH; SOLAR FURNACE, HOLLOMAN AIR FORCE BASE NM; OFFICERS QUARTERS, MATHER AIR FORCE BASE CA; MINOR LAND ACQUISITION; LAJES WATERFRONT IMPROVEMENT PROJECT (AZORES); AIRCRAFT LABORATORY FATIGUE TEST (SONIC), WRIGHT PATTERSON; AIRCRAFT MAINTENANCE DOCKS; HEATH FACILITIES; ICBM ATLAS (SM-65) PROJECT; ICBM TITAN (SM-68) PROJECT; ICBM MINUTEMAN (SM-80) PROJECT; SPACE (SAMOS/MIDAS/DISCOVERER SATELLITES) PROJECTS; IRBM (INTERMEDIATE RANGE BALLISTIC

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MISSILE THOR (SM-75) PROJECT; IRBM JUPITER (SM-78) PROJECT; SNARK (SM-72) MISSILE PROJECT; MEDIUM BOMBER AIRCRAFT AND KC-97 AIRCRAFT PROJECT; OVERSEAS BASES; AIR TO AIR MISSILES PROJECTS; B-52/KC-135 AIRCRAFT PROJECTS; BOMARC; BMEWS; THULE DETECTION SITE (GREENLAND); CLEAR DETECTION SITE; UNITED KINGDOM SITE; REARWARD COMMUNICATIONS; CONTROL MONITORING FACILITY; ACW OVERSEAS; DEWLINE EASTERN EXTENSION; ALASKA ACW; ALASKA INTEGRATED COMMUNICATION SYSTEM (WHITE ALICE); CANADA ACW; ACW ZONE OF THE INTERIOR (ZI); P SITES (PERMANENT RADAR SITES); M SITES (MOBILE RADAR SITES); GAP FILLER RADAR PROGRAM; RADAR IMPROVEMENT; NORAD CONTROL CENTERS (MISSILE MASTER); SAGE; AND NORAD COMBAT OPERATIONS CENTER. FACILITIES SUPPORT TOPICS INCLUDE: MAINTENANCE ACTIVITIES; CIVIL ENGINEER TRAINING; O AND M SUPPORT OF MISSILE FACILITIES; PREVENTIVE MAINTENANCE; DOD (DEPARTMENT OF DEFENSE) FAMILY HOUSING LIAISON GROUP; IMPROVED FIRE PREVENTION ENGINEERING FEATURES; FIRE PREVENTION; FIRE RESCUE VEHICLE IMPROVEMENT PROGRAM; TRAINING; FAMILY HOUSING; HOUSING CONSTRUCTION; DESIGN; WHERRY HOUSING ACQUISITION PROGRAM; INADEQUATE QUARTERS PROGRAM; CONTRACTS AND HOUSING CONFERENCE.

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Preface

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CHAPTER I

PREFACE

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CHAPTER I

PREFACE

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Personnel Assignment Changes

Effective 10 September 1959 Colonel David B. Kunkel, Jr., Executive Officer for the directorate, was assigned as assistant director of Civil Engineering and Colonel Wallace B. Grubbs, Assistant Executive Officer, was assigned as Executive Officer.

Army Troop Construction Support of the Air Force

The FY-1961 peacetime troop construction requirements were submitted to the Department of the Army. However, because of unresolved controversy over budgeting responsibilities and lack of peacetime construction overseas for accomplishment by Engineer Troops, a new approach to this requirement is now under study.

The Department of the Army was advised on 24 July that the recent delegation of authority by Joint Chiefs of Staff assigning Unified and Specified Commanders responsibility for total war planning will necessitate a change in the procedure previously followed in the forecast of troop construction support of the Air Force overseas. The Air Force is but one component of such command and should develop its portion of unified plan, but development of total construction requirements is believed to be the responsibility of the Unified Commander. The Department of the Army replied it was in agreement that new procedure is required and suggested that a committee be formed to study revisions to the proposed joint Army-Air Force regulation which was previously drafted but never published mainly because of budgetary disagreements. Guidance in this matter is

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expected from the Secretary's office either late in January or early February 1960. The main concern, of course, is to have troop construction support available during a small war or events building up to such a war.

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AF Academy Construction

**CHAPTER II
AIR FORCE ACADEMY CONSTRUCTION**

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CHAPTER II

AIR FORCE ACADEMY CONSTRUCTION

The U. S. Air Force Academy construction program closed the year with only two projects remaining physically incomplete. The program was 96.4 per cent finished.

These were the major developments in 1959:

(1) The value of completed work jumped from approximately \$108,000,000 to \$114,000,000. At the end of 1957, \$50,000,000 worth was done, and at the end of 1958, \$9,000,000 worth.

(2) Twenty-six major contracts (including nine of more than \$1,000,000 each) were physically completed, compared with 43 in 1958, 20 in 1957 and 6 in 1956.

(3) The labor force tallied more than 2,000,000 man-hours of work at an average rate-per-hour of about \$3, bringing well over \$6,000,000 into the region's economy.

(4) The work under contract shot up from \$73,000,000 in 1956 to \$118,000,000 in 1957 to \$132,000,000 in 1958 to \$136,100,000 in 1959.

(5) Major physically completed building contracts soared to 97, but 25 projects remain contractually unfinished, pending completion of contractual obligations beyond the construction itself.

(6) Dedication of the institution was held in June in conjunction with graduation of the Academy's first class in history. The cadets moved in August, 1958, from the interim site, Lowry Air Force Base near Denver, to the permanent campus.

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(7) Labor-management-Air Force relations continued outstanding and workmen posted an excellent safety record as the construction program moved systematically forward.

(8) Total awarded contracts of all types increased to 363 and subcontracts to more than 1,000.

(9) The year saw completion of such major projects as the academic complex (Fairchild Hall), cadet quarters (Vandenberg Hall), administration building (Harmon Hall), officers' open mess, cadet social center and theater (Arnold Hall), cadet physical education complex and 1,200 units of Capehart family housing.

(10) The chapel contract -- final one in the current construction program -- was awarded in August, and work began in September on what is to become the dominant feature of the Academy campus.

Contracts

Only one contract was awarded during the reporting period -- to Robert E. McKee, General Contractor, Inc., for construction of the Academy cadet chapel at a cost of \$3,331,500.

One invitation for bids was issued for the sale and removal of buildings and improvements, with bids scheduled to be opened on 12 January 1960.

Sixteen purchase orders and delivery orders were written for services and supplies totaling \$2,636. Orders are reserved for three purchase orders which had not been written.

Eighty contracts were closed out financially at a total value of \$45,035,371. Several other contracts were physically completed

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1975

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all entries are supported by appropriate documentation.

3. The second part of the document outlines the procedures for handling discrepancies and errors.

4. It is important to identify the cause of any errors and take corrective action immediately.

5. The third part of the document provides a detailed explanation of the accounting cycle.

6. Each step of the cycle is described, from journalizing to closing the books.

7. The fourth part of the document discusses the use of T-accounts and their role in the accounting process.

8. It is noted that T-accounts are useful for visualizing the flow of debits and credits.

9. The fifth part of the document covers the preparation of financial statements.

10. The balance sheet, income statement, and statement of owner's equity are discussed.

11. The sixth part of the document addresses the importance of internal controls.

12. Internal controls help to prevent errors and fraud, ensuring the integrity of the accounting system.

13. The seventh part of the document discusses the role of the auditor.

14. The auditor's responsibility is to provide an independent opinion on the financial statements.

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where expeditious provision of additional funds was no longer a necessity.

Near the close of the period, a detailed status of claims being processed by the Armed Services Board of Contract Appeals (ASBCA) was provided to the Director of Civil Engineering. The purpose of such action was to furnish an up-to-date review concerning the major problem areas which will occur from now until the Agency is abolished.

The dwindling balance of funds available for Agency construction provides ever-increasing emphasis on claims which will have to be paid versus contract increases which may have to occur in the last two major construction contracts, the chapel and hospital.

Legal

The legal office received 15 opinions rendered by the Armed Services Board of Contract Appeals (ASBCA) on appeals by contractors from decision of the Agency contracting officer during this period.

In these appeals, the contractors were sustained in five cases totaling approximately \$180,000, and the government in 11 cases totaling approximately \$101,000.

The office participated in 24 hearings before the ASBCA during the period on claims by contractors against the Agency for about \$470,000.

In addition, the office processed requests for 29 hearings which are expected to be heard during 1960. The total amount claimed by contractors in these appeals is estimated at \$5,000,000.

Administration

Prior to August, 1959, the entire District Building at 1131

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North El Paso Street was occupied by the Agency. Buildings of the Agency headquarters, personnel were consolidated in the main body portion of the building and 10,511 net square feet of office space was made available to the Air Defense Command. An additional 313 square feet of space was submitted to be turned over to ADC on 1 January 1960.

Assigned vehicles were reduced by 50 per cent during this year-1959, and the cost of operation was decreased by more than 50 per cent. 10000 miles was reduced monthly. It showed a net increase of 65 per cent for December, 1959, compared with the 10 June 1959 total.

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Operations

At the end of the period, only two projects - the cancer clinic and hospital - remained physically unfinished.

Construction placement reached \$110,225,000 in value and was 76.4 per cent completed. Final payment requests were processed on all but nine contracts by the operations division.

Weather in the second half of 1959 was normal with the exception of 10 September to 1 October, when 3 1/2 inches of snow fell on the Agency site, stopping all work for six days.

Total work in place went from approximately \$112,500,000 on 30 June 1959 to \$113,750,000 on 31 December 1959.

Total of about \$2,200,000 worth of work was placed in the 1,000 apartment housing units, completing that project.

Construction personnel increased in number from 1,400 in 1958 to 1,800 in the spring of 1960. About 200 men were on the job. There

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were no labor strikes during the period.

As the period opened, 16 contracts were active. At the end, nine remained active. (Active contracts are defined as those for which requests for final payments have not been processed.)

Property turn-ins (Form 23) made considerable progress. At the beginning of the period, 16 contracts had been turned over to the Agency. Thirty-six more were added during the period, bringing the total to 52.

Safety committee meetings were held regularly each month, and pre-construction safety meetings were conducted with each new prime contractor.

Personnel expenses for the reporting period were 3,114 military man-days and 59,317 civilian man-hours.

There were no lost-time accidents for either military or civilian personnel. There was one minor (not chargeable) vehicle accident.

Six safety meetings were held with contractor employees and 16 with Agency personnel.

The contractor's dispensary, which had been located in the community center area, was moved to the site of the chapel construction during the period.

The previous report pointed out that the last parcel of land had been acquired and that the Colorado Land Acquisition Commission had been dissolved.

The current period saw the Agency receiving, processing and

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forwarding to the Air Force Academy for permanent filing, final title opinions by the U. S. Attorney General on 13 parcels.

As the period ended, there were only three parcels for which final title opinions had not been received. No monetary consideration by the United States is involved in these, and all papers such for which the Agency is responsible had been completed.

Also handled during the period were 11 transactions involving easements, rights-of-way and clarifications of real estate details.

The Agency Director is a regular member of the Academy Facilities Utilization Board. In this capacity, he participated in the screening of existing indigenous buildings for possible disposal in accordance with APT 57-4.

As a result of the board's screening process, the Academy superintendent approved the disposal of several buildings which were beyond economical repair. Under special authority from Headquarters USAF, this Agency is the disposal agent (normally it is the Army Corps of Engineers) for Academy facilities.

An appropriate contract package will be advertised for bid and the buildings will be sold for their current value during the next reporting period.

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**CHAPTER III
REAL PROPERTY**

Real Property

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U.S. AIR FORCE, 1945-1950

The U.S. Air Force during the period 1945-1950 was characterized by a period of rapid expansion and modernization. The Air Force was reorganized in 1946 to reflect the new strategic environment created by the end of World War II. The Air Force was reorganized into three major commands: the Air Force Materiel Command, the Air Force Operations Command, and the Air Force Support Command. The Air Force was also reorganized into three major functional areas: the Air Force Materiel Command, the Air Force Operations Command, and the Air Force Support Command. The Air Force was also reorganized into three major functional areas: the Air Force Materiel Command, the Air Force Operations Command, and the Air Force Support Command.

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General Description

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Program Stage/Date	AF Program Supported	(amounts in \$ millions)		
		MFP Funds in AF FY 61 Budget	Total MFP Proposed	New Authorization Portion of Total Program
Revised Work- up of new auth by OSD 11 Dec 59		785	105	680
Proc of New Auth to BOB 17 Dec 59		785	791	683
Appr Program to OSD 20 Dec 59		735	753	648
			(MFP Appr Progr sum to OSD) (MFP for Auth only)	
Initial sum- mit of new auth to OSD 15 Sep 59	F-61-3	1180	1231	1032
Revised sum- mit of new auth to OSD 1 Nov 59	F-61-4	1000	1170	978

Force Structure Construction Estimates and Analysis

That AF weapon structure, which is known as the Objective Force of 15 May 1959, was revised twice during this period. For each revised force mix a new construction estimate was prepared.

The Objective Force data also served as a basic input to the GFM Report, Report on Major Military Programs, M-1A. This is a selected weapon system report which places together requirements of all funding areas to show the aggregate needed for each system. Revisions to the M-1A were made as the Objective Force was modified.

Throughout this period almost continuous effort was required in programming exercises for achievable forces. The overriding goal

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from 70 012 to 70 021. For all months in which a change in
location was made along with such alterations, variations with other
program areas.

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BY 1967 (See Barracks Modernization Program)

In the fall of 1967 a Barracks Modernization Program was developed
of four requirements identified by the commandant earlier in the year.
The objective of the program was to provide living quarters of a high
standard for all personnel by 1971 at the cost of one appropriation.

The program which was developed provides for the modernization of
150 buildings containing quarters for 15,000 men. This program is
expedited for accomplishment by a cost of \$15.0 million from the 1968
appropriation.

Special Accommodations

Many changes in the Air Force inventory are in need of improve-
ment to meet current standards. Completion of dollar ceilings in
the Military Construction Program has prevented the accomplishment
of this needed work.

A plan is presently under study, and is expected to be implemented
in the near future, to modernize Special Facilities. Interested
agencies within the Air Staff are collaborating on the program which
will probably be phased over a number of years.

Utilities

Utility systems at many locations in the Air Force have been in
the ground, in some instances, since World War II. The systems of pipes
and conduits or isolated sections of conduits installed are subject to be

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less than the past 30 years. The past expenditure in repair, rehabilitation and modernization funds in support of the repair of antiquated utility systems has proven costly and in need of close evaluation.

Action has been taken to survey major air commands to arrive at a unified modernization program. To date, fixed requirements in the amount of \$4.5 million have been identified for this purpose. The continued planned repair, replacement, and modernization of existing utility systems will, in the long run, be most beneficial to the Air Force.

Emergency Authorization

Section 303, Public Law 86-498, 21 August 1959, contained \$17,500,000 of emergency authorization. During the period of this report construction projects totalling \$3,067,000 were approved by congressional appropriation committees. The authorization expired on 14 August 1959.

Section 303(a), Public Law 86-149, 17 August 1959 contains \$10,000,000 of emergency authorization. During the reporting period construction projects totalling \$1,911,000 were approved by congressional appropriation committees. The authorization will expire on 30 September 1960.

Annual Report

The bulk of the task of preparation of the Annual Report, "Information on Public Works and Improvement Programs" for the Bureau of the Budget was completed during this period. To cope with the increasingly detailed reporting requirements of BCB, refinements in job planning and work organization were effected which resulted in completion of a

have minimum report without a Government's license is applied
hereafter.

Defense Systems

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The period 1 July 1975 to 31 December 1975 required minimum review and adjustment, by the Air Force, of the plans and programs for the Environmental Aircraft Control & Warning System (EACW, Frequency Diversity Radar, Dop Filters). This was necessary to bring the EACW program into conformity with the Master Air Defense (MAD) Plan of the Secretary of Defense issued June 1975, and to reflect major policy developments in the program of Air Defense Electronic equipment. The MAD Plan placed increased emphasis on the search radar component, and as a result, through the sensitive approach to the United States could not be made, and limited that active air traffic in the theater of the United States could not be likely.

Secretary State, on 15 December 1975, formally transmitted to OASD the revised Air Force Air Defense Program for approval. The MAD position as the revised Air Defense Plan will be completed by 31 December 1975. Primarily, a major decision is required from OASD concerning the "baseline" EACW radar program. OASD has informally accepted the recommendations of the FY 1976 and will act in regard to Frequency Diversity and Dop Filter program.

AM

The Air Force review of Air Defense systems in accordance with the MAD position is continuing review of the EACW program. The MAD position as the revised Air Defense Plan will be completed by 31 December 1975 and will act in regard to Frequency Diversity and Dop Filter program.

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Gas Fillers

The MAD Plan directed that approximately 250 additional gas fillers be provided north of the 49th parallel in support of BOMARC's low altitude capability. Studies were made to provide (a) gas fillers to the rear of BOMARC bases affecting BOMARC availability to Canada (over the shoulder), (b) twenty-two additional gas fillers recommended by BRAD, (c) 132 gas fillers for the U. S. and Canada rather than the 200 gas fillers directed by OGD. The final Air Force program for additional gas fillers is: Canada - 77; U. S. - 16.

Base GAGE

The Ground Air Transmitter Receiver (GATR) building program was curtailed by the MAD Plan since GATR radio was reduced in the austere GAGE area. Studies were made to: place directional antennas at new sites; machine high powered amplifiers and directional antennas; eliminate data link in the austere area; reprogram the FY 1960 MAD GATR's location of the austere area.

Presently Air Force has established a GATR schedule pertaining to the FY 60 and prior construction items. Recent cost increases of about 10% on certain GATR's were denied by Secretary of the Air Force for Financial Management, who indicated that he would be willing to consider a reallocation in the entire GATR program covering cost increases and proposed reprogramming.

BOMARC

The proposed FY 1961 Military Construction Program contains in item 13 the amount of 400 million in support of BOMARC. This line will provide

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SECURE TO THE MISSILE coverage for the continental area in the vicinity of Charleston AFB (1st and 2nd squadrons) and the equidistant coverage for the areas in the vicinity of Travis AFB, Vandenberg AFB, Beale AFB, AFB, Keesler AFB, Barksdale AFB, Minot AFB, Ellsworth AFB, Hamilton AFB and Hickam Field AFB. This will complete the required 15 legs of latitude installations as approved by the Air Defense Master Plan.

Ballistic Missiles & Space Systems

During this reporting period there were many significant milestones leading with total force and missile "air" for the AV-14 and Titan program. A force "air" of 11 Atlas squadrons and 14 Titan squadrons was approved and the FY-1961 RFP was based upon this force. A good portion of this time was used in getting information concerning unit activities and program planning proposals from the agencies involved and coordinating them through the Air Staff. This was a continuing effort of the program and being finalized in preparation for submission to OSD and NSC.

The FY-61 RFP for Ballistic Missiles & Space Systems as submitted to OSD totaled \$57.5 million and proposed facilities for four squadrons Titan, two squadrons Minuteman, one Tracking and Instrumenting Station for Minuteman and one TBT Station for Titan plus 200,000 test training and support facilities for these systems. Through reprogramming FY-59 and other years residual authorization, the 1st and 2nd Atlas squadrons, estimated to cost \$1.5 million, were proposed for construction through the use of funds available to the Air Force.

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Real Estate Operations

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Legislation Affecting Acquisition

The Department of the Air Force recommended that Section 409 be deleted from the proposed Military Construction Act of 1960. This Section would have authorized disposal of one facility and acquisition of a replacement facility using funds realized from the sale of the disposed facility. The purpose of this proposed authority was to encourage disposal of facilities located in high priced areas. The Department of the Air Force opposed inclusion of Section 409 on the grounds that the determination, if replacement was warranted, would require costly and time consuming studies, pressures would be exerted to dispose of installations in heavily populated areas resulting in possible compromise of military mission and in heavily populated areas, replacement costs would generally exceed the net return from the facility to be sold. One of the conditions precedent to the exercise of the authority was that the United States must realize a net return from the disposition of property that would justify its replacement. The recommendation of the Department of the Air Force was accepted by DOD, and Section 409 was deleted from the proposed Military Construction Act of 1960. 1/

The Department of the Air Force supported in proposed legislation to add a new Section 2079 to Title 10, U. S. Code, to authorize the Secretary of each Military Department to exchange real

1/ Memo to AIRCIB-OL, 3 Dec 59, Subject: DOD 35-175 Proposed Military Construction of 1960.

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property and related personal property for which property is to be returned
at that the challenge is in the best interests of the United States and
the value of the property involved is not more than \$100,000 and that the
value of the property is not more than \$100,000 and that the
property is not required for the acquisition of the property by the United States
operation of additional facilities in all of

Table of Contents

During this reporting period there were 11 projects approved for
the land service conditions and all were approved. These projects
covered the following items:

1. Transfer from Army to Air Force

(1) 1,000,000 Acres - Original Price \$1,000,000

2. Land - (1) 50,000 Acres - \$10,000,000

(2) 10,000 Acres - \$2,000,000

3. Land - 1,000,000 Acres - \$10,000,000

Summary

During this reporting period there were 11 projects approved for
the land service conditions and all projects were approved.
These projects covered the following items:

1. Transfer from Air Force to Army - 1,017,000 Acres - \$1,017,000,000

2. 1,017,000 Acres - Original Price \$1,017,000,000

Comments

There were 11 projects approved for the land service conditions
in the reporting period. The total value of the projects was
\$1,017,000,000. The projects were approved for the land service
conditions. The projects were approved for the land service conditions
and the projects were approved for the land service conditions.

1. 1,017,000 Acres - Original Price \$1,017,000,000

1,017,000 Acres - Original Price \$1,017,000,000

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in the courts. A new procedure ^{1/} was established requiring the Corps of Engineers, Department of the Army, to notify the Air Force immediately when settlement of a condemnation case is contemplated in an amount exceeding the funds deposited in the Court for the taking of the property. The objective of the new procedure is to insure advanced notice to the Air Force of proposed settlements in order to permit timely action to make funds available and to ensure that the settlement is in the best interest of the Air Force.

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REARMC Land Acquisitions

Sites were selected for three REARMC Installations in the continental part of the United States. The appropriate AFCEC was authorized ^{2/} to issue Real Estate Directives upon receipt of funds. All 3 sites had an estimated cost of less than \$25,000. As of 31 December 1979, funds were not released so real estate acquisition had not progressed.

SAFEC Land Acquisitions

Action was underway to select sites for several SAFEC Super Condit Centers. A final site for the 2000 Air Division was selected at White Horse Mountain, New York, and a complaint in condemnation was filed which gave the Air Force possession of the land. Negotiations were underway with the National Park Service for the selected site, Kennesaw Mountain, for the 20th Air Division near Atlanta, Georgia.

The Regional Civil Engineers were authorized to issue Real Estate Directives for acquisition of land for the SAFEC Program (17 sites). ^{3/}

^{1/} Letter to OMB, 10 Nov 79, Subject: Notification of Installments in Condemnation Proceedings.

^{2/} Reg from AFCEC-8 (9187), dated 25 Nov 1979.

^{3/} Reg to AFCEC from AFCEC-8 - No. 85740, dated 25 Oct 79.

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The Gap Filler program (2 sites), and for which projects authorized by the FY 68 RFP where the estimated cost of the sites is estimated \$25,000.

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ROAD

Land was acquired for the underground facilities for the ROAD near Colorado Springs, Colorado. Land area was 41.84 acres in Fee and 58.19 acres in easement at a total cost of \$90,500.

FY 68 AFSA Program

Four additional Atlas Stations were included in the FY 68 RFP through reprogramming of available funds. Locations for these additional facilities were approved in December 1967 and final design activities were initiated. Deliveries of equipment and materials are in progress.

Survey criteria for the Atlas and Titan systems were finalized. This created a requirement for restrictive easement acquisition of approximately 250 acres at each of 4 sites. Preparation of restrictive requirements authorized for Atlas facilities began in January 1969.

Additional land requirements were derived by the Department of Communications relative to existing and planned systems. If land around existing and planned communication systems are available, it will be necessary for the AFSA to acquire this land or to acquire it to support this construction. This is a major responsibility will require

1. This document is being released in accordance with the provisions of the President John F. Kennedy Library Act, Public Law 90-309, 80 Stat. 571, October 3, 1966, and Executive Order 13526, 30 FR 12319, December 17, 1965.

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approximately 500 miles of roadway and another 1,000 miles, approximately 175 miles. The required pavement width will be 10 feet in width. Also temporary roadways will be required for construction site purposes. Preparation of Real Estate Planning Reports and other preliminary Real Estate work was undertaken in December.

During this time period, approximately 17 construction projects and 15 Congressional inquiries on R&D projects were handled.

Retention Program (1972)

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In accordance with DOD Directive No. 4151.21 dated 27 August 1958 and DOD Instruction No. 4151.14 dated 23 August 1958, subject: Title Retention and Retention of Real Property, the Air Force is required to submit real property holdings under its control and jurisdiction and report to DOD as to surveys and other conditions and details. This report was due in 1959 and the second, third, fourth and fifth increments of this report covering AWC, TAC, PACAF, MAC, ABSC, MACS, ADB, AAC, Air Force Bases were submitted to this Directorate in July and August 1971. These reports were reviewed by this Directorate and the Air Force Military Construction Program Panel of the Air Force Military Construction Board. The second, third, fourth and fifth increments of the report containing the surveys, acquisition and recommendations were returned to DOD (DA) 1/

DOD Memorandum dated 3 March 1972, subject: Retention and Acquisition of Real Property, required the Air Force to submit an analysis covering quantity of available land to be used in accordance with

1/ Survey Plans of AWC, TAC, PACAF, MAC, ABSC, MACS, ADB, AAC, Air Force Bases, and other real property, second, third, fourth and fifth increments.

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current and proposed future utilization of the facilities under the control and jurisdiction of such Command Reporting in the 1950 Bill-
board and Extension of Real Property. Reported analysis for AEC,
SAC, WCAP, SAC, ASAC, BSN, AEC and AED were submitted to OSD (201).
These reports recommended the accounting of 15,291,57 acres at 14 various
locations, 6 Air Force Bases, 9 Air Force Stations, 1 Hospital, 6 Air
Force Lodges.

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Inventory of Military Real Property

The annual publication of the Inventory of Military Real Property
was submitted to the Department of Defense in accordance with OSD Direct-
ive 4163.24 on the date due. This suspense date was not met though
all records maintained at this Headquarters were destroyed by fire and
a complete submission had to be obtained from the major air commands.
Approximately 200,000 records were submitted of which approximately 4%
were reported due to non-compliance with instructions. Of this 4%,
corrections were made, insofar as possible, and were included in the
published inventory. This resulted in one of the most accurate inven-
tories published to date. ^{10/} A proposed new regulation covering the
Inventory of Air Force Real Property was prepared in 1955 for
publication. This proposed new system eliminates redundancy, ineffec-
tiveness and consolidates the land and facilities in one form. Further,
the instructions concerning the preparation and submission of the in-
ventory will be included in the regulation. It is one of the present
three regulations (AFM 71-25, 71-15 and 71-4). It is anticipated

10/ Air Force Inventory of Military Real Property, dated 20 June 1955

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that the new system will be in effect in sufficient time to insure implementation by 30 June 1966.

General Code of Accounts

Considerable progress was made in establishing a basis of accounts for each facility identified by a basic code number - to integrate the maintenance, repair and operation cost accounting with programming, construction and inventory basic codes. This Directorate was represented on a panel which worked with the Comptroller's Office in the publication of a new cost accounting manual including the new code of accounts.

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CHAPTER IV
CONSTRUCTION AND ENGINEERING

Construction &
Engineering

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CHAPTER IV

CONSTRUCTION AND ENGINEERING

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Selection of sites for the F1-60 Atlas and Titan sub-orbital systems was completed. Surveys were begun and initial sites selected for the "Minuteman" missile. Surveys are continuing to select locations for any increase in the present ICBM force as well as for the projected "Minuteman" force.

Approval of site locations was received on the remaining BAGE systems previously surveyed for the F1-60 MRB. It was necessary that the areas involved be resurveyed due to a change in the criteria for separation distance from possible targets.

Sites were selected and approval obtained on three additional divisions of the BAGE system. Surveys of the two remaining divisions were completed. One of these, the 10th Division, was resurveyed based on a "soft" configuration (supported structure above ground) as opposed to the original survey for a "hardened" configuration, or underground facility. Also, a survey was made of the last sites in the area. Action toward securing approval of sites in the final two divisions was delayed pending a re-evaluation of the AFB defense plans for the central system, including the BAGE system.

The site selected for the 10th Division was shifted from Stone King Mt. to nearby Whitehorse Mt., E. T. due to inability to obtain approval for use of Stone King Mt. from the New York, New Jersey, Pennsylvania Interstate Port Commission.

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Administrative and staff was provided the National Transportation Safety Board Administration in the effort to launch a propulsion testing facility in the near future half of the United States.

The Assistant Secretary of Defense (Propulsion and Installation) was advised of action taken by the Department to ensure that all government-owned test engines is transferred to the propulsion service.

A plan was forwarded to the Air Force, Navy and the Air Force Regional Civil Engineers concerning such test facilities to use of some of engineers personnel and data in connection with the propulsion service and related activities of facilities.

In connection with the above items (attached) were planning studies showing the impact of air base installations at the Air Force Region will be placed and to ensure the employment of new engine systems.

During this period a preliminary study was for testing facilities which was developed with Department of Navy and other officials of the Air Force. This plan represented the official position of the Department of Defense for the utilization of test engines under the jurisdiction of flying activities in 1967. It was proposed to the Air Force in October 1966 and was approved in accordance with the existing plans.

THE COMMISSION ON THE TEST ENGINE SERVICE The National Transportation Safety Board has been established to study and report on the results of engine tests and related activities. The Commission was established in 1966 and its report was published in 1967. The Commission's report was published in February 1967. Attached hereto are the Commission's report and the

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On 12/15/88, the information was declassified under E.O. 12958, Section 1.2. The information was determined to be in the public interest and was declassified.

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On review of various determinations and equipment (AF/PTC, Standard) by AF/PTC, final plans and specifications were initiated with completion, in part, before the end of 1959.

ICE LINE - EASTERN EXPANSION

Construction on the two Ice Cap Stations proceeded according to the plans and specifications with minor changes as necessary due to improved methods of operations and equipment. Construction progressed to the closed in stage. Project was closed down in late fall for winter months.

PROPERTY DEPENDENT RADAR SYSTEM - F7C-27

Continuing development of various electronic components, introduction of new equipment, production modifications and realignment of current equipment necessitated a redesign of the supporting structure for the AF/PTC-27 radar. This change involved the addition of two story heights for a total of four floors.

Senior Engineering

The House and Senate Appropriations Committee approved emergency

- ✓ Directorate Field Trip Report, DDEIS - Research Communications, 29 Sep 59 Reighen - AFCE-2A.
- ✓ Corps of Engineers - Monthly Progress Report - ICA East to Division Engineer - North Atlantic, 15 Nov 59, Paragraph 7 Construction.
- ✓ HQ USAF (AF/PTC) Letter 21 Jul 59, Subject: Radar Set, AF/PTC-27, Standard Tower Design.
- ✓ HQ USAF (AF/PTC-27) Std Dtd, 23 Aug 59, Subject: Radar Set AF/PTC-27, Standard Tower Design.
- ✓ AFCE-2A message X 566 (AF IS 43625) 15 Sept 59.

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Funding of Minot Water Supply Project for \$1,500,000 and Clinton County Water Supply and Sewage Treatment for \$1,500,000. Contract negotiations have been started with the City of Minot on the basis of the Air Force paying, on a reimbursable basis, its pro rata share in the new water development at Minot. This is estimated to result in a saving of about \$5,000,000 from Air Force development of its own source. An independent water source is proposed for Clinton County AFB because of skyrocketing rates and surcharge charges proposed by the current supplier, Teton Power and Light Company. In November 1979, the Civil Water Agency bought out T.P.L.'s water interest and Air Force negotiations are currently in progress with this agency.

Holloman AFB requested \$500,000 to initiate a program of water explorations. On-site investigation by sanitary engineering consultants of this Directorate resulted in recommendation for a program of exploration estimated not to cost more than \$100,000. This will also be part of the general Air Force - Army joint investigation of water resources in the Tularosa Basin.

As a result of a visit to Ferris AFB and Cape Canaveral Missile Test Station, ARDC's request for secondary sewage treatment for these two sites was concurred in. It was recommended, however, that more efficient use be made of existing facilities and that present operating procedures at Canaveral be improved.

On-site investigation of Duluth NAS sewage treatment facilities was made by sanitary engineering consultants. An Army District Engineer had estimated that expansion of plant or construction of plant

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AFB program totaling \$202.5 million was reduced to \$15.0 million.

FY 1960 Availability and Appropriation

Availability for FY 1960 totaled \$1,438.7 million; consisting of \$633.9 million unobligated carryover, \$776.8 million new MCA, \$4.0 million MCA (Reserve) and \$44.0 million estimate of reimbursements. Of the carryover it was determined that approximately \$87 million were not required to complete FY 1959 and prior projects. These funds were deappropriated to MB in the request for reappropriation based on certified obligations. This request was based on the information furnished by the construction agents per AFB 177-4, Military Construction Program and Cost Reporting, BEB: AF-118-011, dated 17 June 1959. As of 31 December 1959, appropriations totaling \$1,170 million were approved, which included preliminary reappropriation of \$50.0 million and new appropriations of \$740 million, and requests totaling \$138.0 million were in process. This pending total included the deappropriation of \$87 million of FY 1959 and prior unobligated balances and a request of \$200 million for construction of four additional Atlas Squadrons which were added to the FY 1960 MBP. This deappropriation plus item deletions resulting from design and technological changes and contract savings were possible the description of the Atlas Acquisition program within available financial resources of the MBP. The authorization for this increased program was detailed by utilizing every available dollar in the prior annual authorization package, including the permissible cost increase allowed by such individual authorizing law.

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Funds Released

During the first half of FY 1950 activity was valued at a net of \$461 million to the Construction Agency. The unenclosed funds at the end of this period totaled \$157 million. This unenclosed reserve was for \$39 million of appropriated items unenclosed (Ballistic Missile, RCAF, AEC, and Radar Improvement, Super SAIR, Alaska Transmitter, etc); \$67 million being unapportioned; \$57 million maintained in this Headquarters as a Contingency Reserve in lieu of providing the construction agency contingency accounts on each line item.

Contract Awards

From the first six months of this Fiscal Year projects totaling \$278 million were placed under contract. This amount represents primarily award of items awarded over from FY 1949, most of these are: AF Academy Base, HOWARD at MAAR, Boise, Travis, Huntsburg and Langley modernization, Randolph AF Base, Glasgow, Hickam, K. I. Sawyer, K. I. Long, Warrenton, Lawson Field Squadron, Travis Hillfield, etc. From FY 1950 MIP major items were also awarded during this period, Klamath and 7.2.1. Cannon Missile Squadron, Andrews system and support, etc. This award follows normal contract award procedures, in which the first six months awards are normally covering major equipment purchases.

Military Construction Program and Civil Activities (MCA/CA) Report

On 27 December 1949 the MCA/CA Report for the period ending 30 June 1949 was completed and submitted to Director of Budget and Finance Office as MCA/CA. The report for reprogramming of unobligated funds was based on the data furnished by the Construction Agency for reprogramming.

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of this report. The completion of this report represented an estimate of 40,000 man and machine hours by this office, Engineers or Statistical Services and the Construction Agents. In my transmittal letter it was suggested that SAC consider discontinuing this report since the expenditure of this much time and effort on a report which was both outdated upon receipt and of little use to the Department of the Air Force and seriously questioned. By using the RIA, AF 1-23 Report and Report of Obligations the respective request could be completed more promptly, more accurately, and with a good deal less effort.

Obligations and Expenditure Limitations

The Air Force Military Construction Appropriation is subject to an obligation/expenditure limitation during both FY 1960 and FY 1961 of \$973/41,000 million and \$989/477 million respectively. The effect of these ceilings are presently being studied. Obligation ceilings does not appear to present any immediate problems. Review of expenditure projections result in estimates of \$1,140 million and \$946 million for FY 1960 and 1961, respectively, which exceed Air Force ceilings. To effect these potential overruns may require delay or deferral of part of the unobligated portions of the FY 1960 and 1961 MFPs.

Program Performance

A summary of the FY 60 and prior Military Construction Program in various areas at the end of this period is as follows (amounts in \$ million)

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<u>INCREMENT</u>	<u>GENERAL FUND</u>	<u>OPERATING FUND</u>
Physically Compl.	977.8	977.8
Active (FY 59 & Prior Funds)	817.0	817.0
Active (FY 60 Funds)	<u>31.1</u>	<u>31.1</u>
Total	1,825.9	1,825.9

Total value contract awards: 1,161.1
 Total value work in place: 1,129.8

As indicated in the history for the preceding period, the FY 60 MCF Appropriations Plan submitted to the Congress included 147.3 million for overseas projects. Reactions by the Appropriations Committee and later additional reactions by the Air Force reduced that amount as follows (programmed amounts in \$ million):

<u>INCREMENT</u>	<u>DELETED AMT.</u>	<u>NEW AMT.</u>	<u>TOTAL</u>
Grand Total	7.3	40.0	47.3
Deleted by Cong.	6.6	15.6	22.2
Deleted by AF	<u>0.7</u>	<u>1.2</u>	<u>1.9</u>
Net Total	6.6	38.8	45.4

Included in the portion deleted by the Congress was \$15.3 million for TH-76B facilities.

In addition to the MCF work outlined above, the following construction projects under the FY 60 and Prior Military Assistance Program were monitored:

<u>COUNTRY</u>	<u>PROJECT</u>	<u>AMOUNT (US\$)</u>	<u>REMARKS</u>
Malaya	King Ginn AF	12,196,000	Total amount \$25,575,000. All projects substantially complete.

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Iran	Dezful	681,800
Iran	Isfah	160,948
Thailand	Bangkok	103,175
	Korat	
	Khao I-Adien	
Saudi Arabia	Riyadh	9,100,000
Pakistan	Comptrols AB	222,000
Leban	Bank Chetmar	12,000

Final contract of \$593,762 is for change orders, final inspection, etc.

Change order to and administration of prior program.

Change orders to and administration of prior program.

Presently design only. Total equipment including construction \$2,700,000 (U.S.).

Balance - local resources.

Training facility program presented by MIA now waiting OSD for approval for inclusion in FY 60.

Program not yet approved.

Program not yet approved.

The presently proposed FY 61 MAP totals \$9.2 million (16) and covers eleven projects in eight countries.

TR-7C (MACE)

Historical for preceding periods outlined problems in connection with the TR-7C (MACE). Additional developments and low current status follow:

- (1) Construction contract for the TR-7C early site at Sembah, Germany, was awarded in July 1959 and no major problems are known.
- (2) Preliminary CAI for the TR-7C early site at Semb, Germany, is

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\$2,050,000 is compared to program cost of \$1,950,000. If the total cost of this program is \$2,050,000, the program is approved and execution is authorized. Contract award and POB are scheduled for 1 February and 31 May 1960, respectively. Due to the delays inherent in NATO contractual procedures, 31 May is the earliest POB possible. It is noted that POB and the authorization of funds resulting from French reapproval will be deemed necessary for immediate deployment of the first unit from February to 31 May 1960.

(3) The Congress failed to appropriate funds for the 12-15th Air Division at Bitburg, Germany, and Wiesbaden, Germany. The conference report of the Appropriations Committee did request the Secretary of Defense to use available FY 60 and prior year funds for this purpose, subsequent to notifying the committee as to type, location and cost of facilities.

(4) Further congressional action resulted in a reduced military development program. Operational planning was accordingly adjusted to provide for a total of four 12-15th squadrons in lieu of two 60th groups originally planned. It is planned to construct facilities for one squadron each at Bitburg and Wiesbaden under the current program and to construct facilities for one squadron at each area under the FY 61 RFP. The estimated cost of the facilities is (amounts in \$ million):

	<u>NUMBER</u>	<u>AREA</u>	<u>TYPE</u>
FY 60	4.5	15.5	15.0
FY 61	5.0	11.0	11.0
TOTAL	9.5	26.5	26.0

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therefore, recommended cancellation of the items. As a result of a staff study, the following actions were taken:

- (1) FT 60, Operations Missile Center - Canceled.
- (2) FT 59, Operational Facilities (not awarded) - Canceled.
- (3) FT 59, Auto Maint. Shop (not awarded) - Canceled.
- (4) FT 59, GN Station (under award, if complete) - Reduced in scope from five to one MOC site which will be used in support of fighter mission.

Decisions

Eight A/C Maintenance Docks were acquired for Kadena AFB under prior years programs. These are presently at Kadena, have not been erected, and are deteriorating while in storage. Revisions to operational planning have resulted in different requirements and a study has been made to determine the most feasible utilization of the docks. It is now tentatively planned to erect two docks each at Hahaione and Aiea (using P-44 funds), erect three at Hahaione under the FT 61 MOP, and to use the remaining one for support facilities for the M-102 project at Kadena. If more than one can be used for this purpose, some procurement as well as erection may be accomplished under the FT 61 MOP for Hahaione.

Payments

Reply was received from the U. S. Embassy at Peking ¹³ concerning payment for land acquired by Peking Government for Project Sinking. The payments in question are in three categories, viz., (a) 150,000 for the payment for maintenance of 10 acres, (b) annual rental 15,000, and (c) 50,000 and 100,000, due 15 and 20 Oct 59 respectively.

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of \$171,000 for 60 acres in amount; (b) \$171,000 per annum for exclusive use of 60 acres for family housing. The matter was presented to the AF General Counsel. Based on their findings, the following determinations were made and/or actions taken:

(a) \$50,000 for 60 acres sale use will be paid for from AF Funds and the funding is being increased to provide that amount.

(b) \$171,000 per annum for 60 acres in amount will be provided by using services (AFHS) from GSA Funds.

(c) \$73,354 for 60 acres sale use for family housing will be provided from surplus commodity funds, but action has not yet been completed by Family Housing Branch. After receipt of funds in the period above, HAFB will reimburse Military Government.

AFHS

As the result of mission changes, HCAF requested that all activity at Irb Air be cancelled and the installation be placed in maintenance status. AF 60 items had not been ordered and they were deleted. Detailing of AF 59 items was held to expedite pending administration of requirements for a multi-purpose recreation facility, planned for construction from AF 59 resources. As of the end of this reporting period, the matter was not finalized.

AF 59/60 Items

The AF 59/60 Military Construction Program for Reserve Forces was reduced to \$4,000,000 of which \$3,000,000 is allocated for construction and \$1,000,000 for design of the AF 59/60 Military Construction Program. Congressional AF Command, AF 59/60 items, and with the field representatives of HAFB and representatives of AF 59/60. As a result, the reporting activities were not finalized and currently working

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estimates established which will permit advertising of the entire program. The ensuing delay of possibly two months apparently will have no serious effect on either beneficial economy or completion of the projects. The amount of the FY-1961 Military Construction Program initially proposed at \$9,571,000, at eleven Air Force Bases and three Naval Air Stations has been reduced to \$4,624,000 at seven Air Force Bases and two Naval Air Stations.

Air Force Bases

The entire FY-1959 Air Force Military Construction Program at Air Force Bases has been placed under contract except for the heating plant which has been combined with the FY-1960 Military Construction Program addition. Bids for this combined heating facility have been opened and the award is anticipated early in January 1960. Approach lighting, narrow gauge runway lighting, runway and high speed taxiway center-line lighting, and beacons are being incorporated into the FY-1959 Military Construction Program from savings effected from favorable awards. It is anticipated that when all of the FY-1960 Military Construction Program has been awarded, a savings of approximately \$2,000,000 will be effected when compared with the appropriated amount of \$16,900,000. Approximately \$12,000,000 of the Navy's \$15,000,000 FY-1959 and FY-1960 Military Construction Program has been placed under contract and the balance will be placed under contract as soon as design and funds become available.

Naval Engineering Test Facilities at Eight Veterans Air Force Bases

This facility, authorized under FY-1959/60 Program and FY-1960/61

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Congress, has been under construction since October 1955 and is now reported 87% physically completed. An additional \$23,000 has been provided on this facility to permit the labeling of all fabricated components. This will bring this facility to a logical cut-off point where the environmental control and material handling systems can be added if funds are released. There has been no further development on the release of the \$5.8 million required for July 1960.

Solar Furnace at Holloman Air Force Base

Funds for a solar furnace of large size at Holloman Air Force Base were appropriated under Public Law 85-492 in the amount of \$4,401,000. The Pittsburgh Iron Works Steel Company has the contract for the design of the furnace proper. Knight Company has the contract for the design of support facilities. Subsequent to the initiation of design, the development of additional criteria has resulted in an increase in the estimated cost to \$7,877,000 based upon nearly completed plans. The National Science Foundation was requested to take an appraisal of the scientific requirement for this facility from a broad national standpoint. Their findings were that a solar furnace of the scope proposed under the present design is not yet justified in the temperature research field and recommended consideration of the construction of several smaller type furnaces. A study is now under way in the Air Research and Development Command as a parallel solar furnace that originally proposed. This study will take into consideration the size and flow requirements and is expected to be completed in February 1960, at which time the proposed construction will be submitted to higher authority.

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For review.

Officers Quarters at Walker Air Force Base

The family-type machine officer quarters at Walker Air Force Base are 75% completed. These facilities have generated a requirement for additional water storage at an estimated cost of \$400,000. This facility is now under design with construction work scheduled for early in 1960. These officer quarters are to be completed in February 1960.

Water Land Acquisition

A package program for acquisition of water land tracts not exceeding \$5,000, was included in Section 146, Public Law 868/86th Congress, 3 August 1959 and \$600,000 was appropriated for this purpose. Section 146 was amended by Section 310 of Public Law 87/85, 30 August 1959, to increase the limitation of \$5,000. As of January 1960, the total package program consisted of funds allocations of \$27,500 - FY 1957; \$18,400 - FY 1958; \$242,970 - FY 1959; \$300,000 - FY 1960. The major increases for FY 1959 were caused by acquisition of missile sites. The early requirement for these missile complexes necessitated immediate land acquisition which could be handled most expeditiously under this Water Land Package Program.

Water Treatment Improvement Project

The development of this water facility, program, in FY 1960, is scheduled to be started prior to 1 July 1960. The plans and specifications being prepared by the State Water District are based on the preliminary proposal which will provide for construction of the water

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available to the construction agency is 250,000 cubic yards of special concrete equipment with various long production periods. The Ohio River Division of the Corps of Engineers is the construction agency for the Air Force on this facility.

Aircraft Maintenance Bases

A total of forty-two bases are programmed for the line of facilities in the USAF. Authority has been received for the Air Force, through Air Materiel Command, to procure and erect forty-two bases with all appurtenances to the five-foot line. The normal construction agency will design and construct the maintenance appurtenances outside the five-foot line. Twelve bases have previously erected at Hamilton Air Force Base will be dismantled, transported, and reerected with all required supporting facilities by the normal construction agency at the following Air Force Bases: Blytheville - 2 each; Hunter - 3 each; Ogden - 1 each; Robin - 2 each; Turner - 2 each; and Wright-Patterson - 2 each. The four aircraft bases programmed under the F1500 program for F. 1500 Air Force Base, but not erected, will be delivered by the supplier and erected at Wright Air Force Base under the F1500 authorization.

Other Facilities

The Master Calibration Facilities and the Special Calibration Facility Canada Base in the F1501 Military Construction Program will be provided through modification of an existing industrial plant constructed by the Air Force for the Navy program program to maintain aircraft bases at the

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for construction to be located at Hill Air Force Base. The facilities will be placed under contract early in 1960. Air Staff approval has been granted for two additional squadrons. Facilities for them will be placed under contract in the first half of 1960. Final orders of Secretary of Defense, Bureau of Budget, and Congressional approval has not been given however. It is anticipated in the near future.

THE 34th (S-31) Project

The construction of miscellaneous facilities and construction of existing facilities to support the Research and Development, Test and Training Programs for this project at Patrick Air Force Base, Arnold Engineering Development Center, and Vandenberg Air Force Base consisted without incident. The construction of facilities for the first two operational squadrons in the vicinity of Perry Air Force Base continued on schedule with some minor construction problems. Very little, if any delay in the construction has resulted from these problems or the other strikes. Facilities for two additional squadrons, the 3rd and 11th in the vicinity of Hill Air Force Base and Larson Air Force Base, were placed under contract during the latter part of the period. The design of facilities for the 3rd and 11th squadrons, to be located at the vicinity of Hill and Larson Air Force Bases, is complete and construction contracts will be awarded in January and February 1960.

THE 34th (S-31) Project

Construction contracts for Research and Development and Test Facilities at Patrick, Vandenberg, and Hill Air Force Bases were awarded and construction was initiated during the period. These facilities are to

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(5) Based on information furnished by ~~various other staff offices~~, the Secretary of the Air Force (October 1959) furnished the Secretary of Defense necessary back-up data for his presentation to the Appropriations Committee. In his reply,^{11/} the Secretary of Defense authorized obligations up to \$50 million for missile procurement, but with respect to the MCF requested that a comparative study of hard vs soft configuration be furnished him for further consideration. In his reply,^{12/} the Secretary of the Air Force furnished the requested data, but reiterated the Air Force position and intent of constructing hard facilities. Based on that reply, a request^{13/} for apportionment of MCF funds was initiated. As of the end of this reporting period, no action had been taken on that request.

France

Redeployment of tactical units from France necessitated an emergency review of pertinent construction items to determine the most economical course of action. As a result, construction of test stands at Chaumont and Toul was canceled; USAFE was requested to review status of school and water pump station at Chaumont and three ammo storage items at Toul to determine feasibility of cancellation. Based on that review, it was decided to complete the school, but delete the water pump station and ammo storage items. All items at Steain were so far advanced that no action was taken.

Korea

The FY 60 MCF contains one, and the FY 59 MCF, three items for support of TH-610 (MAREKOP) at Osan, Korea. Current programming documents indicate limited utilization of that site. The Military Construction Panel,

^{11/} Memo, Atd 6 Nov 59, subject: "MAREKOP TH-610."

^{12/} Memo, Atd 23 Nov 59, subject: "MAREKOP TH-610."

^{13/} Submission No. AF-7A-60-1A, Atd 27 Nov 59.

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is considered as a separate facility. However, the Director of Special
Engineering and Plans retains responsibility relative to the modification
of existing facilities and construction of new facilities for this in-
stallation.

Plans (Sub-Programs) Project

The construction of facilities to support these programs continued
without any problems. In fact, most facilities currently authorized for
construction are complete or nearing completion. A firm program of facilities
for FY 1960 to support these programs is being prepared and submitted for
approval to Office Secretary of Defense (Advanced Research Projects
Agency) early in 1960. Efforts to get AFSA to release the FY 1960 funds
to the Air Force have failed. The AFSA position remains that the funds
will be released only upon approval of a firm facilities program, or in
case of an emergency, upon the AFSA approval of individual projects. It
has been agreed that funding will be through Memorandum DEAF by an AFSA
Order rather than by the Air Research and Development Command as was done
previously.

AFSA-AMR (44-75) and AFSA-AR (44-76) Programs

Facilities for training purposes and for the operational readiness in
the United Kingdom for the two projects are all in place and most of them
are in use. The design of facilities to support two further squadrons in
Italy was completed and construction was initiated or will be initiated
early in 1960. All agreements have been finalized. The financing
arrangements have been completed and design and construction arrangements

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have been worked out whereby the Corps of Engineers and Air Force Regional Civil Engineers will provide with technical assistance as is required to assure usable facilities. Agreements have been completed for the 3rd Jupiter Squadron to be located in Turkey. Facilities criteria and requirements have been provided, siting has been completed, and the design of the facilities will be initiated early in 1950. The facilities are to be constructed under the Military Assistance Program.

Black (S-75) Project:

Facilities at Prueve Isle Air Force Base for the Black project are essentially complete. During the period a number of deficiencies and minor additional requirements in these facilities were reported. Most of these problems were resolved and those remaining are expected to be resolved in the near future.

Medium Base and B-27 Projects:

Construction of the new Richard Bong Air Force Base was cancelled due to accelerated decrease in requirements for medium bomber bases. All the FY 1950 supplemental Military Construction Program tanker dispersal beneficial occupancy bases were met during this period, except Clinton County Air Force Base. Practically all the start facilities for both bombers and tankers were also completed.

Overseas Bases:

All Fighter Interceptor Squadron facilities at Andersen Air Force Base, Guam, were cancelled. Close-out costs were not received by end of period. Construction for Strategic Air Command bases in the Northwest area, Guam, Puerto Rico, Spain, and Morocco continued satisfactorily.

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Air-to-Air Missile Programs

Contracts were awarded at four additional bases authorized for...
Assigned OAS 7779 missiles were... Military Construction Program...
Of the two remaining bases in the FY 1960 program, both were opened on...
and not were deferred because of construction... the other being...
reassigned to eliminate OAS 77 requirements... approval of deployment...
Program of twenty-five OAS 77 squadrons and twenty-two OAS 77 squadrons...
permitted reprogramming of FY 1960 Military Construction Program to...
provide facilities for their support.

B-52 and KC-135 Programs

(a) Facilities at nine bases (Bunny, Barks, Wurts, Great Falls, Wright-Patterson, New, Elizabethtown, Wheeling, and Sheppard) were...
sufficiently completed for operational readiness by B-52 and KC-135...
squadrons. This brought to total of available B-52 bases to...
Work continued on six other bases to be completed during 1960. Design...
was initiated and construction schedules were established for three bases...
(Hickory, Goodwood, Keesling) in the FY 1960 Military Construction Program...
which are to be converted from medium bomber to heavy bomber use. An Air...
Staff decision was rendered that McDill Air Force Base would not be used...
for B-52 or KC-135 deployment. Military Construction Program funds were...
cancelled prior to completion of design.

(b) Airfield pavement construction continued at the four existing...
major airports. Design of heavy duty airways, taxiways, runways and...
ways at Fairchild, Elizabethtown, and Seymour Johnson Air Force Bases was...
authorized. The Fairchild project is to be major emphasis and...
prioritized.

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contracts will be a BIE alternate to the original design.

(2) Plans were cancelled when completed and all funds expended by Army Engineer and Ordnance agencies except credits and interest on funds expended.

(3) The only work slippage of construction scheduled occurred at Langley Air Force Base. This slippage was due to failure of the contractor to include the complete structure prior to the visitor meeting. Slippage of about one to two weeks would not be a major problem involving this slip.

STATUS

Of the four B-36 bases in the FY 53 SEP, Redstone and Huntsville are now completed and operational. Construction is completed at Davis and WPA. The status of the FY 53 SEP is as follows: At Langley AFB, the B-36-20 launching shelter complex is 60% complete. Construction on the B-36-20 launching shelter expansion is approximately 20% complete. Construction is well under way on the other B-36-20 launching shelter complexes at 7 other sites with completion programs as follows: Langley 5%, Kirtland 5%, Minot 5%, Rogers Field 10%, Tule 20%, Abbe 20, Davis 20 and Vandenberg 10%. These additional sites of B-36 launching shelters are under design and location work Langley, Redstone and Minot Air Force Bases. Construction is scheduled to start in the Spring of 1960. These three sites were originally provided for the FY 53 SEP, however, no authorization or appropriation was required since facilities remained in the FY 53 program. The proposed FY 53 SEP

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contracts on files in Langley AFB, \$26,000,000 to provide 20 IN-92B missile magazines at Kincheloe, Minot, Fieger Falls, Fair, Abing, Travis Vandenberg, Williams, West and Glasgow and a new 30 IN-92B magazine site in the vicinity of Charleston AFB, South Carolina.

The study of BUREAU survivability under an ICBM attack was completed by Boeing and presented to this headquarters on 17 July 1959. As a result had been made at that time to harden hardened facilities could have been designed and built for the initial placement of 20 missiles at Williams, Glasgow, West and Charleston and for the magazine magazines in line to meet the established operational status. Various facilities was made to develop the study further. The amplified study was presented to this headquarters on 24-25 November 1959. As a result, the Air Defense Panel was prepared to recommend to the Air Staff that BUREAU facilities be hardened according to the following plan:

(a) Build 20 hard shelters at all sixteen sites, with no subsequent augmentation. This is itself would augment the five IN-92B sites.

(b) Cancel construction of the missile area facilities at Fair, Abing, Travis, Vandenberg and perhaps Langley to reduce as much as possible as possible.

(c) Complete IN-92B facilities at Glasgow, Kincheloe and Minot and perhaps Langley. The missiles would then be transferred from the soft to the hard shelters upon completion of hardened construction.

This plan would reduce the total F-415 fund requirement from \$1,250 million to \$890 million and increase the total F-415 requirement from \$121.5 million to \$125.5 million. Although a vertical silo shelter would

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It is noted that the construction site requirements for the site are being considered in the vertical clearance and final design and during the year 1960. The design criteria and construction methods have been developed on the horizontal clearance basis and it is the AEC and AECB position that a change in vertical clearance is already critical to the development program. The AECB design team plan is submitted for consideration to the program board. Further developments will follow the same program plan.

1959

77,000 MCF authorization and appropriations were received in the amount of \$13,450,000 to complete 1959. The FY 60 program increased the available total authorization to \$22,450,000 and total appropriation to \$13,450,000.

Plant Detection Site

Construction funding was increased to \$100,000,000 for this site. The increase of \$4,000,000 was to cover construction of emergency power supply of the technical site. An approved program in construction schedule was awarded and major technical facilities were started over the equipment installation essentially on schedule. Construction was 90% complete including the emergency power supply which was scheduled for construction in FY 1960.

Plant Detection Site

Construction funding was increased from \$16,500,000 to \$33,500,000 reflecting cost of additional facilities in the FY 60 RFP. An Alaska site contractor strike during part of the construction caused delayed work on the power plant and the personnel support facilities. Work continued on the major technical facilities as an exception to the strike. Special procedures are to be exercised to meet the power supply requirements and

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to provide an earlier completion of the work plan. Overall progress was 75% complete including the 17 60 work which was scheduled for 17 60 work.

Work Started 1960

Informal discussions between USAF and AEC continued with the objective of early implementation and joint financing. Formal negotiations were expected to be completed early in 1960. The site at Wymbushale, England was selected. Possibility of U. S. financed design prior to completion of negotiations was not favorably considered by the Secretary of the Air Force.

Advanced Construction

Construction contracts were awarded for facilities along the POLARIS communication route. Except at Melville where work was more readily accessible, activity was limited to procurement and delivery of materials and establishment of construction camps. \$7,772,000 was the estimated cost of the work placed under contract by AEC. Work on the cable terminals at Thule and Cape Lynce was completed by the Corps of Engineers. AEC was considering an AF request that AEC be permitted to construct the radio terminal building at Cape Lynce. \$1,430,000 was available to the Corps of Engineers for communications construction in Alaska. Design work virtually completed with construction contracts scheduled for start early in 1960. Funding was in excess of funds estimated for known work. A change in routing was adopted by the systems engineer late in the reporting period. This change involved a new air route link between Thule Base and Heiksson lake to by-pass existing Thule Alas routes. Route of construction authorization and funds was under consideration at the end of the reporting

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Central Monitoring Facility

A change in equipment was adopted which required the need for the construction. Completed design for an addition to the MCAF was started.

AFM Overhaul

AFM (AFM) - Design of six (6) air freight containers for the main station was completed during the period. The proposed FY 61 AFM includes approximately \$2 million worth of items for various AFM starting. All of this construction will be accomplished directly by the AFM Force through AFM.

AFM (Barbers Point)

Construction work planned for the 1963 season was completed as scheduled. The extension is now 85% complete. Construction will be completed in all phases during the 1964 season. During the 1963 season, about 13,000 tons of material were airlifted from San Francisco to the isolated 4-170 in the area of the proposed facility. Current working estimate for construction is \$50.5 million.

AFM (AFM)

Work on the proposed buildings at Barbers Point and other facilities was interrupted by the depression strike and, as a result, will not be completed until the end of the 1964 season. Design of 77 to 100 new buildings started. Plans have been made to modify existing AFM buildings. Plans instead of building new power plants in other AFM stations.

AFM Improved Communication System

The basic system was completed in 1961. Major supply improvements of AFM sites were completed this year. The Antenna System and Signal Group, an extension of communications at the AFM site, are 50%

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under contract

Phase A-2

During the Phase A-2 employment during the period construction a considerable amount of material of this program. The program of the A-2 includes additional Phase A-2 work and job orders. A-2 work is done by the Air Force in addition to the A-2 construction work is done directly through A-2.

A-2 Type of Material

During the period A-2 construction was placed under contract in the total amount of \$19,896,115 as follows:

Phase A-2	\$1,178,051
Phase A-2	1,170,000
Exp. Order	000
Order Agreement	15,200,000
Material Order	600,000
Phase A-2	0
Phase A-2 (Amended Order)	1,118,064
	<u>\$19,896,115</u>

A-2 construction contracts were held with AFCEC, A-2 Construction Agency, AFCEC, AFCEC, and AFCEC during the period of October 1950 to November 1950. These contracts were to provide material and construction equipment for all A-2 and other Phase A-2 construction. Material was ordered to meet equipment delivery dates and A-2 requirements.

Phase A-2 (A-2)

Phase A-2 construction was provided for facilities supporting

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... (The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a detailed report on construction progress, mentioning various projects, funding amounts, and completion dates. Key phrases are difficult to discern but seem to include 'FY 1950', 'approximately \$1.5 million', and 'completion of the program'.)

Facilities (738)

Facilities costing \$1,5 million for seventy (70) sites have been programmed up through FY 1950 NSF, of which \$750,000 have been completed and related to inventory. Basic construction is approximately 80% complete, while the "B" and "C" sites are practically 100% complete. Contract awards for this period amounted to \$1,750,000 which did not

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include any FY 1960 facilities. During this period the programmed amount of the FY 1960 MFP was reduced from \$10,055,000 to \$6,699,000 by the deletion of 16 GARE facilities and 2 operations facilities. This brought construction requirements in consonance with the revised Master Air Defense (MAD) Plan. FY 60 funding has been limited to \$8,157,000 due to lack of firm CME's caused by numerous MAD Plan revisions of construction requirements. The entire GARE program is currently under study for reprogramming. Construction requirements for retrofitting of the Air conditioning for the Manual and Automatic sections of the operations facilities have been firm'd up and design at all locations is practically completed. Construction is now underway at approximately 70% of the sites. Balance of sites are scheduled for construction awards by 15 March 1960.

GAP Filler Program (FOBO)

The FY 1959 and prior years MFP program contains a total of 177 sites. The entire FY 59 program is not under contract except approximately \$20,000 in utility items to be negotiated by ADC. There are 134 fiscally completed sites with 43 sites currently under construction at a total cost of \$3,863,915. The estimated cost of the entire FY 59 and prior years program is \$12,940,065. Nine (9) of the initial nineteen (19) sites contained in the FY 60 program were deleted with subsequent deletion of 2 more sites to conform with revised ADC requirements. An appropriation request in amount of \$980,000 to permit funding of the remaining 6 sites has been forwarded to AF Comptroller and it is expected that these sites will be funded by mid February 1960. The Form 161A dated 15 Sept 1959 submitted a list of 34 Gap Fillers with a CME of \$4,300,000 for the proposed FY 61 program. However, the forecast is that when presented to the

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Congress this program will have been greatly reduced, perhaps to 50% or 75%.

Basic Requirements (FOD)

The FY 59 MCF requires a minimum line item for \$100.0 MILLION available. Various locations have improvements. This line is for use and improved radars for additional electric power and for land as required. FY 59 MCF funds in the amount \$45.24 have been appropriated and released to the field, and of this, a total of \$15.24 has placed under contracts during this reporting period, making a total of \$30.00 under contract to date. Fifty-five of the fifty-four radar tubes authorized in FY 59 MCF were under contract at the close of the period.

During the period a decision was made to establish an interim MCF area in the Southwestern part of the United States. This decision eliminated the improved radars from the MCF area. The current revised Radar Improvement Program has not yet been finalized, and it will remain open throughout the reporting period, and various changes continue to be made. Although not yet firm, the following is considered to be the best estimate available of MCF work requirements:

M/TS	FL 02	FL 03	FL 01	FL 04	FL 05	TOTAL
	*13 (AM)					
1	1	1	—	—	—	2
2	1	1	—	—	—	2
3	1	1	—	—	—	2
4	1	1	1	1	—	4
5	1	—	—	—	—	1
<u>TOTAL</u>	<u>*13 (AM)</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>21</u>
2	1	2	1	1	1	6

* AM Funds directed by OASA

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Redesign of the radar in general revealed the limitations for the FT 55 radar, however, the major portion of the FT 55 radar have been retained and therefore require redesign.

RAAF Control Centers (McAfee's Report) (TDR)

Finaling action was completed on line (9) of the line (10) plan in January 1959. The main line, Gibraltar, N. J. was finally cleared by Congressional Committee on 27 May 1959. Finaling and award are forecast prior to 1 April 1960.

Design of foundations for three (3) towers at the Chicago site (Arlington Heights) is nearly complete and award is forecast for March 1960.

The Building Plant at Detroit (DeLfridge) was awarded in December 1959 and the Headquarters Squadron building at Pittsburgh (Calkins) is scheduled for award in April 1960.

A problem on scheduling in the A-10 Operations Building caused slippage of several months in time at various stations. Use of interim facilities has compensated for this slippage.

Land-Automatic Ground Development (LAGD)

As of 31 Dec 1959, the New York (Mature), Boston (Advanced), Syracuse (Advanced), Washington (Very Low), Denver (Advanced), Detroit (Very Low), Chicago (Very Low), Detroit (Advanced) and Grand Forks (Grand Forks) All Defense Centers were operational. Additionally Defense Centers in the 80th and 30th Air Defense Divisions were also operational. The Airborne Center Facility at Richards-Gebaur was operational for personnel training and computer programming purposes. Construction of LAGD facilities

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at eight (8) additional locations has been completed and accepted by the Air Defense Command. The completed sectors are as follows:

<u>Sector</u>	<u>Station</u>
Seattle	Richards AFB
Forkland	Chap Adair AFB
Sault Ste Marie	E. I. Sawyer AFB
Spokane	Larson AFB
San Francisco	Beale AFB
Reno	Stead AFB
Great Falls	Malmstrom AFB
Los Angeles	Horton AFB

Construction of SAGE facilities was under way at the end of the period at the following stations:

<u>Sector</u>	<u>Station (Location)</u>
Minot	Minot AFB
Phoenix	Lake AFB
Snow City	Snow City AFB

During the latter part of this period, a comprehensive review of the proposed SAGE BCC Program was made by the Air Force and OSD. As a result of the review, an Air Force plan was developed which provides for seven (7) hardened Super Combat Centers in lieu of the nine (9) initially proposed. Under the plan all Air Defense Divisions, with exception of the 27th and 33rd Divisions, would have hardened BCCs and the proposed above ground soft facility for the Albuquerque Air Defense Sector would be deleted. At the end of the period, the Air Force plan had been officially transmitted to OSD for approval and action was taken to cancel out all work on the Albuquerque SAGE center. The revised BCC program had not been approved by OSD as of 31 December 1979. Design and siting studies previously initiated continued during the period under certain restrictions. At the end of the period the primary design and construction effort was confined

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to the development of standard plans and specifications for the Deep Underground BOC facility. Reprogramming action was taken in accordance with revised Air Force plan. Under the current program the chamber and tunnel excavation in the 32nd, 26th, 31st and 25th Air Defense Divisions will be carried out under the FY 59 MOP. One million three hundred thousand dollars in real estate is also included in the FY 59 program for a total BOC programmed amount of \$23.3 million dollars. The FY 60 MOP included provisions for the building phase of the BOC projects in the 32nd, 26th and 31st Air Divisions and chamber and tunnel excavation along with an initial increment of building construction in the 30th, 29th and 28th Air Divisions. In addition real estate in the amount of \$1 million dollars is included. The FY 60 program totals \$24.3 million dollars. Building construction funds for the 29th, 30th, and 28th Air Divisions in the amount of \$19.7 million dollars are included in the FY 61 MOP.

REIAD COST

The ABEC Preliminary Study of the REIAD System and the Air Force proposal for implementing the project was forwarded to JCS for approval on 23 August 1959. Construction was scheduled as follows:

\$10.0 M FY 60 Funds

	<u>AWARD</u>		<u>END</u>
Excavation	17 Sept 59		15 Nov 59
Chamber	1 Dec 59		3 Dec 60

\$12.3 M FY 61 Funds

	<u>AWARD</u>		<u>END</u>
Building	1 Oct 60		1 Apr 61

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On 11 September 1959, JCS authorized AFAP to proceed with the Phase I AFAP construction. This construction phase I work which included the design, field and construction of the terminal and the building structure.

Phase I work is the matter of AFAP construction which was completed on 22 September 1959 and on 23 September 1959 a contract for the construction was awarded. Work was completed as scheduled with the exception of 7 December 1959. The construction work was halted for approximately 25 October 1959; however, on 28 October 1959 the Chief Secretary of the U.S. State Dept. resumed negotiations and status of work for AFAP construction. The construction status of this project resumed activities through 11 December 1959.

Some preliminary design work for the terminal structure was completed by 15 December 1959. However, further progress is dependent upon criteria to be established by the System Convention. AFAP was authorized to hire a System Contractor on 17 July 1959; however, this action became subject to various delays and interruptions and by 31 December 1959 a contractor had not been hired.

Further authorization for this project developed when the AFAP is for the terminal building and related work for AFAP. This and progress is being made which enables work to be done in building a terminal structure will necessitate development of a new contract for AFAP. All of the work are subject to the status of the international status of the AFAP.

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**CHAPTER V
FACILITIES SUPPORT**

Facilities Support

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CHAPTER V

FACILITIES SUPPORT

MAINTENANCE ACTIVITIES

The House Appropriations Committee conducted a detailed investigation of Vandenberg and Griffis Air Force Bases. Of primary interest was the use of the funds and non-construction funds in the rehabilitation and new construction activities at Vandenberg AFB. A four-man investigating staff spent approximately five weeks at the base. The investigators informed Air Force representatives that findings and allegations resulting from the investigation will be made known only at the discretion of the Committee, probably during appropriations hearings.

Civil Engineer Training

The increasing complexity of systems requiring maintenance and the rapidly increasing number of such systems to be operated and maintained, required the study and implementation of accelerated operator-maintenance training programs. Civil Engineering inputs to training were studied and recommendations for higher skill levels and more realistic training programs were made to training organizations. Conferences and training courses were conducted in selected areas. Consultants and technicians from industry contributed to these training sessions at no charge to the Air Force.

C & A Support of Missile Facilities

Continuing follow-up actions were taken to insure the implementation of the Vice-Chief's policy letter of 11 May 1959. Certain of

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These actions, representing policies of the Director of Civil Engineering, have turned up in conflict with the desired policies of the Deputy Chief of Staff for Material. The primary basis of this conflict is the control of the O & M function for Real Property Installed Equipment in direct support of missile operations. Efforts to resolve this conflict of interest between Civil Engineering and Material are currently underway and a firm Air Staff position should soon be developed. From this, specific policies and guidance will be developed and published to the appropriate commands.

Preventive Maintenance

The evaluation and review of proposed new Preventive Maintenance techniques and procedures is a continuing program. A new concept of P/M which provides positive controls is now under test at Smart AFB, Tenn. Preliminary evaluation indicates that these new procedures may be of sufficient economical value for Air Force-wide application. Final study and evaluation of this test program is scheduled for late February 1960.

DDP Family Housing Liaison Group (AF Participation)

DDP (P&I), by memorandum 12 May 1959, subject: "Design and Construction of Caphart Housing," established the Family Housing Liaison Group composed of representatives of the Army, Navy and Air Force. This group chaired by a representative of the Office, Assistant Secretary of Defense (P&I) developed Department of Defense policy statement concerning design and construction of family housing (16 July 1959). While this policy is not generally restrictive to the Air Force, there are provisions in which the Air Force is not in full accord.

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This group continued to meet at the insistence of DOD (PFI) to develop formal DOD standards and criteria for maintenance and operation of family housing. Air Force representatives at these informal meetings continually protested the need for such policy pinpointing a specific part of the over-all Air Force operations and maintenance responsibility which is completely and specifically covered by existing DOD directives, and has been fully and successfully implemented by Air Force directives. Upon receipt by the Air Force of the DOD (PFI) policy statements, the Air Force formally and emphatically non-concurred in the requirement for such additional DOD policy.

Improved Fire Protection Engineering Features

Continuation of previously recorded emphasis on the establishment of sound fire protection engineering in building design and construction was reflected in further improvements in the standards of existing facilities, both in new construction and O & M programs. Much of this improvement was obtained through local and command approved projects in accordance with criteria established by Hq USAF. Criteria in general is based on safe building practices as recommended in professional fire protection building codes.

Fire Prevention

Competitive interest in the development of effective fire protection programs extended throughout the year. This was evidenced by the increasing numbers of entries in the National Fire Protection Association sponsored annual Fire Prevention contest. Grand Award in this contest for the calendar year 1959 was Myrtle Beach AFB, with

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Richard AFB and Tullahoma AFB, placing second and third, respectively. 100 Air Force installations participated in this contest.

Fire Rescue Vehicle Development Program

Procurement action was initiated by AEC for the A/S 357-4 BK, formerly called the C-112, for a limited number of these vehicles. This vehicle is the principal high capacity member of the projected new family of fire rescue vehicles. The other two members of this family are the 357-4, medium capacity, and the 357-3, small capacity, are completing their vehicle performance and functional testing.

Training

Arrangements were made with military personnel to conduct a series of schools on pavement maintenance techniques. A total of 13 schools were conducted, ten in the Continental U. S. in FY 1970 and three overseas in FY 1971 with a total attendance of approximately 600 people. Arrangements were also made with the Corps of Engineers to conduct a series of schools to train AF personnel in the design and control of rigid and flexible pavement as it pertains to repair and maintenance procedures.

FAMILY HOUSING

The 1970 Military Construction Act, Public Law 91-185, included the following authorizations for Air Force family housing:

Title VIII (Reserve)	10,750 units @ 20 units
Reserve Contingency	2,707 units @ 21 units
Appropriated Fund	1,000 units @ 10 units

The general provisions of the law included several other matters relating to the Air Force family housing program. Among these were:

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1. Authorization of Special Operations program from the Department of Defense authorized by Executive Order 11652, however, a ceiling of \$1,000 million for this program was placed in the Department of Defense through the Act of 1954.

2. Increase in the ceiling on Special Operations from the same authorization from \$100 to \$1,000 million.

3. Authority to accomplish operations authorized was increased substantially and provided as Special Operations program.

4. Provision to authorize operations with the Special Operations program not to exceed 10% of total number of units.

5. Authorization of Department of Defense of \$1,000 million with the Department of Defense in 1954.

The Department of Defense, in December, allocated \$1,000 million to the Air Force with the Special Operations program by Congress. Of this total, \$1,000 million was authorized for the Air Force program administration. The allocation was made in specific number of units for each year.

The allocation was made available to the Air Force. Several programs were already planned for a greater number than allocated by the Act. There could be danger in supporting in the quality allocated special programs were badly needed, but not allocated. A review of the Special Operations program was made in 1954. It showed that several other programs were being planned. This included \$1,000 million from 1954 through 1959 and \$1,000 million more. These will not necessarily be the allocation and more implementation of Special Air Force program.

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During hearings on the FY-60 appropriations bill the House Appropriations Committee reported that all overseas family housing projects when funded be cleared with the committee of both the House and Senate prior to commencing construction. This was done to give the Congressional committees closer control over overseas family housing programs.

The decision of the French Government concerning control of nuclear weapons resulted in re-deployment of forces in Europe. These moves affected the Surplus Commodity program in the United Kingdom and France as projects were either deferred, reduced or cancelled. The revised programs are still not firm at the end of the reporting period.

Authority was requested to redistribute 280 Surplus Commodity authorizations for ACMV sites in Spain from seven sites to five. DOD and SES had limited each site to 40 units. The redistribution request was based on the fact that only 40 units per site would create insurmountable difficulties in split support requirements for dependents at each site. DOD internally denied the request and a formal refusal is planned.

During the authorization hearings, the Senate Armed Services Committee imposed a 5-year limitation on the guaranteed period for Rental Guaranty projects. Continuous efforts were made during the period to develop a Rental Guaranty program for both Okinawa and the Philippines.

Several proposals were received from and discussed with potential sponsors. However, these proposals involved a 10 to 12 year guaranteed period, construction on government-owned land, with

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facilities and maintenance to be provided by the Government. The longer guarantee period was based on complete participation in the project during the guarantee period. This was necessary to show a net realized value for the housing after Air Force occupancy. A formal request was made to DOD to seek approval of the Congressional committee for an increase in the guarantee period. The request was denied.

The Air Force was considering the possibility of obtaining housing in Germany and Japan through the Mutual Security Program.

DAIA requested DOD funds for five locations in Germany. A study made by DAIA determined that such a program was feasible with a ten-year guarantee period. Air Force equipments are being reallocated prior to requesting approval of a program for bases in Germany.

Further housing in Japan through the Mutual Security program appears unobtainable; therefore, Mutual Security is being considered as a possible method of obtaining required family housing in that country. A feasibility study is being conducted by DAIA.

After two presidential vetoes a modified Housing Act was signed on September 23, 1959 and became Public Law 86-372. It extended the housing program through 1 October 1961, increased budgetary ceilings to a maximum of 30 years, and provided the facilities of housing facilities in Japanese financing.

This legislation also added a new Section 519, to the National Housing Act intended to stimulate the construction of private off-base housing for sale or rental to military and essential civilian personnel employed at the base. It provided for liberalized mortgage and for military guarantee against loss in the industry.

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committees where the Federal Housing Administration, State, the project
and the military authorities. Implementation of this program was being
worked out in a series of inter-agency conferences with DOD.

During this period the Air Force Family Housing Program for FY 61
was developed for inclusion in the Military Construction Authorization
Program. Program requests received by the Major Commands included:

Title VIII (Capexort)	27,000 units @ 15 bases
Surplus Commodity	2,500 units @ 13 bases
Appropriated Fund	100 units @ 1 base
Rental Guaranty	1,100 units @ 3 bases

In September, the following program was submitted to DOD:

Title VIII	10,200 units @ 33 bases
Surplus Commodity	2,300 units @ 15 bases
Appropriated Fund	110 units @ 7 bases

Rental Guaranty projects were exempted from the requirement of authorizing
legislation by Public Law 86-149.

In September a review of the entire program in light of force
structure changes and planned base utilization was conducted. As a
result, the FY 61 program was reduced to the following:

Title VIII (Capexort)	6,250 units @ 19 bases
Surplus Commodity	1,100 units @ 9 bases
Appropriated Fund	37 units (rehab) @ 1 base

The Department of Defense after a review of the Air Force program
approved the following:

Title VIII (Capexort)	1,475 units @ 5 bases
Surplus Commodity	200 units @ 3 bases
Appropriated Fund	37 units (rehab) @ 1 base

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The overall reduction in the program resulted from the following announced DMB policies:

- a. No additional spending subject to large metropolitan areas.
- b. Consideration of long-range requirements for ADC units.
- c. No additional family housing for established air bases in Japan.

Air Force decision to DMB for the replacement of 2,970 Caphart units, 1,075 Surplus Community units and 40 Appropriated Fund units was unsuccessful.

Like program projects for Evans AFB (170 units) and Clark AFB, Philippines (400 units) were approved by DMB. The inclusion in the program and the final program submitted to the DMB was as follows:

Table VIII (Caphart)	1,485 units @ 6 bases
Surplus Community	263 units @ 3 bases
Appropriated Funds	40 units @ 1 base 17 units (rental) @ 1 base

The Bureau of the Budget announced that a new "pre-financing" policy for Surplus Community projects would be placed into effect with the FY 61 program. To date, under Public Law 755/51, the Air Force has acquired foreign currencies from the Community Credit Corporation to maintain authorized family housing overseas. Repayment to the Community Credit Corporation is made with quarterly allowances withheld from occupants of Surplus Community units. Briefly stated, the new policy would require the use of Appropriations to purchase the necessary foreign currencies from Community Credit Corporation to fund the project. The full impact of this policy is being studied.

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Housing Construction

The largest housing construction activity in the history of the Air Force occurred during this period. More houses were completed and brought into the inventory than during any previous period. Details on this performance follow; however, a note should be made of actual completions versus scheduled completions.

In the Caphart-Rains program, which represents 90% of the housing activity of the Air Force, delivery of housing units is being accomplished ahead of established completion schedules. At the end of Calendar Year 1959, 58 projects totalling 29,820 units have been completed in their entirety in the (Caphart-Rains program); 35 projects comprising 16,960 units finished on schedule or ahead of schedule by a total of 1,292,335 housedays; 23 projects comprising 12,857 units finished behind schedule for a total of 925,710 house-days. Consequently, the over-all program shows a net of 366,625 house-days ahead of scheduled completion. This means that on the average, for the first 30,000 houses delivered, each house was delivered approximately 12 days ahead of scheduled completion.

The various programs authorized for the construction of family housing reached their highest point of input of units into the housing inventory. This input amounted to 95 houses per day, with a dollar value of approximately \$1.6 million per day. Following is the status of completed units by program for this period:

<u>Program</u>	<u>Houses Completed</u> <u>1 Jul 59</u>	<u>Houses Completed</u> <u>31 Dec 59</u>	<u>Net</u>
Caphart-Rains	16,365	29,820	13,455
Surplus Commodity	2,016	5,208	3,192
MCP	1,471	1,960	489
Total	19,852	36,988	17,136

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In addition to the tremendous task of providing support to bases and commands in their efforts to properly perform inspection of the houses listed above prior to acceptance by the Air Force, the Construction Branch was also engaged in staff supervision and surveillance of the following housing units still in the construction phase as of 31 Dec 59:

	<u>No. Units</u>
Capelhart-Bains	19,724
Surplus Commodity	745
WAF	1,596
Wherry H & I	<u>7,310</u>
Total	29,375

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The Capelhart-Bains program, which started in 1955, is the principal supplier of houses into the Air Force inventory. Since 1955, 58 projects totalling 29,800 units have been completed under this program. To properly judge the adequacy of these projects and determine their strong and weak points, to provide a basis for better design and construction, the USAF rating system was devised. By October 1959 a large number of projects had been rated. The rating system is based on a positive goal without regard to special conditions such as cost factors and geographical location. The system establishes a maximum possible score of 10 points, with quarter point increments. Of the projects rated during this period, the following received marks at the First Annual Housing Conference held in October 1959:

Area	Rating	Notes
Hamstead	8.75	Best in SE Area and Best in Entire Program
Langley	8.25	Best in East
Apartelle	8.5	Best in Northwest

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<u>Name</u>	<u>Rating</u>	<u>Awards</u>
Green	8.25	Best in West
Mc Hane	7.5	Best in Northern Tier Area
Chambers	8.0	Best in Midwest

Design

Efforts were continued to expand the program for use of residential type BQs; however, despite poor bids received on an institutional type for Minot AFB, ASD (PAI) again refused to consider use of the residential type. Studies were completed on maintenance data and will be used in subsequent efforts to obtain approval of expansion of this program.

Efforts to expand the inadequate quarters improvement program were continued. Criteria for improvements and a check list were forwarded to all commands requesting submission of detailed information concerning all projects which were considered to need rehabilitation. Detailed replies were received and check lists submitted. A firm program will be established based on this information.

Design directives were completed on 5 Separate projects in the FI-60 program, totalling 1245 units. Progress as follows was made in the FI-60 program: Preliminary sketches were reviewed and approved for 7 projects totalling approximately 2516 units; preliminary plans, specifications and cost estimates were reviewed and approved for 8 projects totalling approximately 2674 units; and final plans, specifications and cost estimates were reviewed and approved for 9 projects totalling approximately 2924 units.

Work continued on presentation of plans, composition and cost breakdowns to ASD (PAI) for approval and funding of the Cherry

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Rehabilitation and Improvement Program. All designs were approved and funding followed as funds became available. Three projects are completed, 3 are under construction and 7 have been advertised for bids. Of the total of 29 projects with final plans completed, funds for three projects totalling 2000 units were received and approved. Design directives were issued for 4 projects.

Preliminary studies were completed for design of two houses at the Air Academy. These included inspection of bids and preparation of sketches for a house for the technical school and one for the base of cadets.

Provision for inclusion of youth centers and maintenance buildings in Cadet's projects was included in the latest housing bill. Questionnaires were sent to the field requesting information to be used for these facilities at bases where Cadet's projects are completed, under construction or under design. Youth center for Langley AFB project has been started.

Emergency Housing Acquisition Program

For the first half of FY 1960, a total of \$47.0 million was allocated to the Air Force to finance the Emergency Housing Acquisition Program. Of this amount, approximately \$24.0 million has been programmed for the repair and rehabilitation of emergency housing units at 13 projects. Since inception of this program, approximately \$24.0 million has been allocated to the Air Force for the rehabilitation of 57 per cent or 21 of the 34 required emergency housing projects. Requests, totalling \$15.8 million, to rehabilitate and improve units of all additional projects are currently pending in office of the Secretary of Defense (Comptroller). These projects are located at

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Wastover, Richards, Hamilton, Bergstrom, Kessler and Ferrin.

As of 30 December 1959, 31,180 Wherry units had been acquired, \$3.6 million had been allocated by the Office of the Secretary of Defense (Comptroller) for acquisition of 1754 additional units, leaving 3350 units yet to be funded for acquisition and 628 units deferred.

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Inadequate Quarters Program

The Bureau of Budget has disapproved an Air Force request for an apportionment of funds to rehabilitate and improve inadequate quarters (formerly referred to as "Shell" housing) at seven installations. The disapproval was on the basis that declaration of inadequacy under the provisions of Public Law 801 was improper and not in accordance with DOD criteria. A request has been submitted providing for the rehabilitation and improvement of "Shell" housing units at Andrews AFB on the basis of military necessity.

Contracts

More final closings occurred in this six-month period than any previous period from inception of the housing program. The peak month was October with 21 final closings, totalling 2643 and reflecting \$41,975,779.

Statistics reflecting output as to preliminary and final closings follow:

Preliminary Closings

	<u>Mortgage-Builder Corporations</u>	<u>Units</u>	<u>Total \$ Figures</u>
Closed	43	3,245	\$ 25,400,554

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Final Closings

<u>Closed</u>	<u>Mortgagor-Builder Corporations</u>	<u>Units</u>	<u>Total \$ Fluorid</u>
31 Dec 59	205	32,062	\$499,814,264
1 Jul 59	<u>115</u>	<u>19,501</u>	<u>297,206,470</u>
Increase	90	12,561	\$202,607,794

Housing Conference

The First Annual Housing Conference was conducted under the monitorship of the Construction Branch, and consisted of two phases. The first, which was attended by base commanders, contracting officers and base civil engineers, consisted of a tour of the exhibits at the National Housing Center in the morning and an afternoon session in the Fortagon auditorium.

For the next two days, the conference was held at the National Housing Center. All elements of the housing cycle were discussed from programming thru design, construction contract administration, the warranty period, and maintenance. Two hundred and eighty-six (286) people attended the conference, and all felt that it was a most comprehensive coverage of the housing program and most worthwhile.

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AAC	Air Defense Command
AACW	Air Control and Warning
AE	Architect Engineer
AER	Air Force Installation Representative
AEIFO	Air Force Installations Representative Office
AER, RFR	Air Force Installations Representative North Pacific
AER	Air Force Regulation
AERER	Air Force Regional Civil Engineer
AER	Airways Modernization Board
AERD	Air Research & Development Command
AERCA	Armed Services Board of Contract Appeals
AETC	Air Training Command
BAN	Budget Authorization Number
BUD	Bureau of Budget
BWDM	Ballistic Missile Early Warning System
BOC	Boatload Officer Quarters
CABL	Connecticut Aircraft Engine Laboratory
CIC	Commander-in-Chief
CICAL	Commander-in-Chief Alaska
CINCPAC	Commander-in-Chief, United States Air Force in Europe
CINCPAC	Commander-in-Chief, United States Army in Europe
CLAC	Colorado Land Acquisition Commission
COMAC	Commander Aircraft & Air Communication
EW	Early Warning

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- DDP Department of Defense
- DDP/6 Deputy Chief of Staff, Operations
- FEA Federal Energy Administration
- FHA Federal National Mortgage Corporation
- FY Fiscal Year
- GSA General Services Administration
- HQ Headquarters
- ICM Intercontinental Ballistic Missile
- IMM Intermediate Range Ballistic Missile
- MCS Military Air Transport Service
- MCA Military Construction Administration
- MCO Mission & Organization
- MCP Military Construction Program
- MSS Naval Air Station
- NSAD North American Air Defense
- OSD (P&I) Office, Assistant Secretary of Defense, Procurement & Installations
- OSD Office, Office of Engineers
- OSD Organization & Manning
- OSD Office, Secretary of Defense
- PAAF Pacific Air Forces
- P&I Procurement & Installations
- PL Public Law
- PLM Planned Force Plan
- PLS Strategic Air Command
- PLS Secretary of the Air Force

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1400	Special Activities Group Development
1401	Special Activities for Demobilization
1402	Reserves
1403	United States Air Force
1404	United States Air Force Academy
1405	United States Army in Europe
1406	United States
1407	United States Military Training Service

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